



aspire

SEP 9 - 13, 2024 | PHOENIX, ARIZONA



TECHNICAL GROUP PROGRAM CHAIRS AND THE LOCAL HOST COMMITTEE

Technical Program Committee

Chair

Farzan Sasangohar

Texas A&M University

Co-Chair

Sylvain Bruni

Aptima

Workshops

Anthony McDonald

Texas A&M University

Student Forum

Pamela Savage-Knepshield

Combat Capabilities Development Command Data Analysis Center (Retired)

Technical Group Committee Chairs

Aerospace Systems

Arjun Rao

Aging

Gaojian Huang

Augmented Cognition

Heejin Jeong

Children's Issues

Karen Jacobs

Cognitive Engineering & DM

Martijn Ijtsma

Communications

Barbara Millet

Computer Systems

Jackie Cha

Cybersecurity

Vincent Mancuso

Education

Carolyn Sommerich

Environmental Design

Karen Jacobs

Extended Reality

Stephanie Fussell

Forensics Professional

Jeffrey Martin

Health Care

Megan Gregory

Human Performance

Modeling

Ji-Eun Kim

Human-AI Robot Teaming

Joseph Lyons

Individual Differences

James Szalma

Internet

Andrea Johnson

Macroergonomics

Hanna Barton

Occupational Ergonomics

Thomas Rowell

Perception & Performance

Nade Liang

Product Design

Katie Tippy

Safety

Thomas Ulrich

Surface Transportation

Brandon Pitts

Sustainability

Andrew Thatcher

System Development

Frank Lacson

Training

Megan Morris

Usability and System Evaluation

Jerry Burpee

Local Host Committee

Co-Chair

Nancy Cooke

Arizona State University

Co-Chair

Lixiao Huang

Arizona State University

Kendra Befort

Boeing Company

Myke Cohen

Arizona State University

Michael DeVries

Exponent

Anastasia Diamond

Priority Designs

Ben Lester

Exponent Inc.

Jessica Lee

Arizona State University

Zachary Klinefelter

Aptima

Michael Kuzel

4M Consulting Group, LLC

Lixiao Huang

Arizona State University

Parkhi Malhotra

Arizona State University

Anders Orn

Research Collective

Alexandra Wolff

The Boeing Company

Xiaoyun Yin

Arizona State University

EXECUTIVE COUNCIL, PLANNING COMMITTEE AND STAFF

President

Susan Kotowski

Immediate Past President

Carolyn Sommerich

President-Elect

Camille Peres

Secretary-Treasurer

Julie Gilpin-McMinn

Immediate Past Secretary-Treasurer

Ayse Gurses

Secretary-Treasurer-Elect

Rose Figueroa

At-Large Members of the Executive Council

Deborah Boehm-Davis

Caroline Cao

Christy Harper

Paul Green

Shannon Roberts

Nancy Stone

Division Chairs

Education

Keith Jones

Internal Affairs

Ranjana Mehta

Scientific Publications

Patricia DeLucia

Outreach

Blake McGowan

Technical Standards

Ram Maikala

HFES Staff

Executive Director

Steven Kemp

Operations Sr. Manager

Joann DeNardis

Operations Manager

Caitlin Hardy

Operations Sr. Associate

Enar Ogar

Operations Sr. Associate

Alex Bianco

Marketing and Communication Director

Kat Seiffert

Marketing and Communication Sr. Manager/Editor

Kate Levin

Marketing and Communication Manager

Christina Howerton

Education and Learning Services Director

Alexis Kolak

Education and Learning Services Coordinator

Jill Barr

2024 SPONSORS

Thank you to our sponsors for their support of ASPIRE 2024



BOARD OF CERTIFICATION IN
PROFESSIONAL ERGONOMICS



Engineering for
Democracy Institute



EXPLICO



HOTEL FLOORPLAN

Main Building Meeting Space

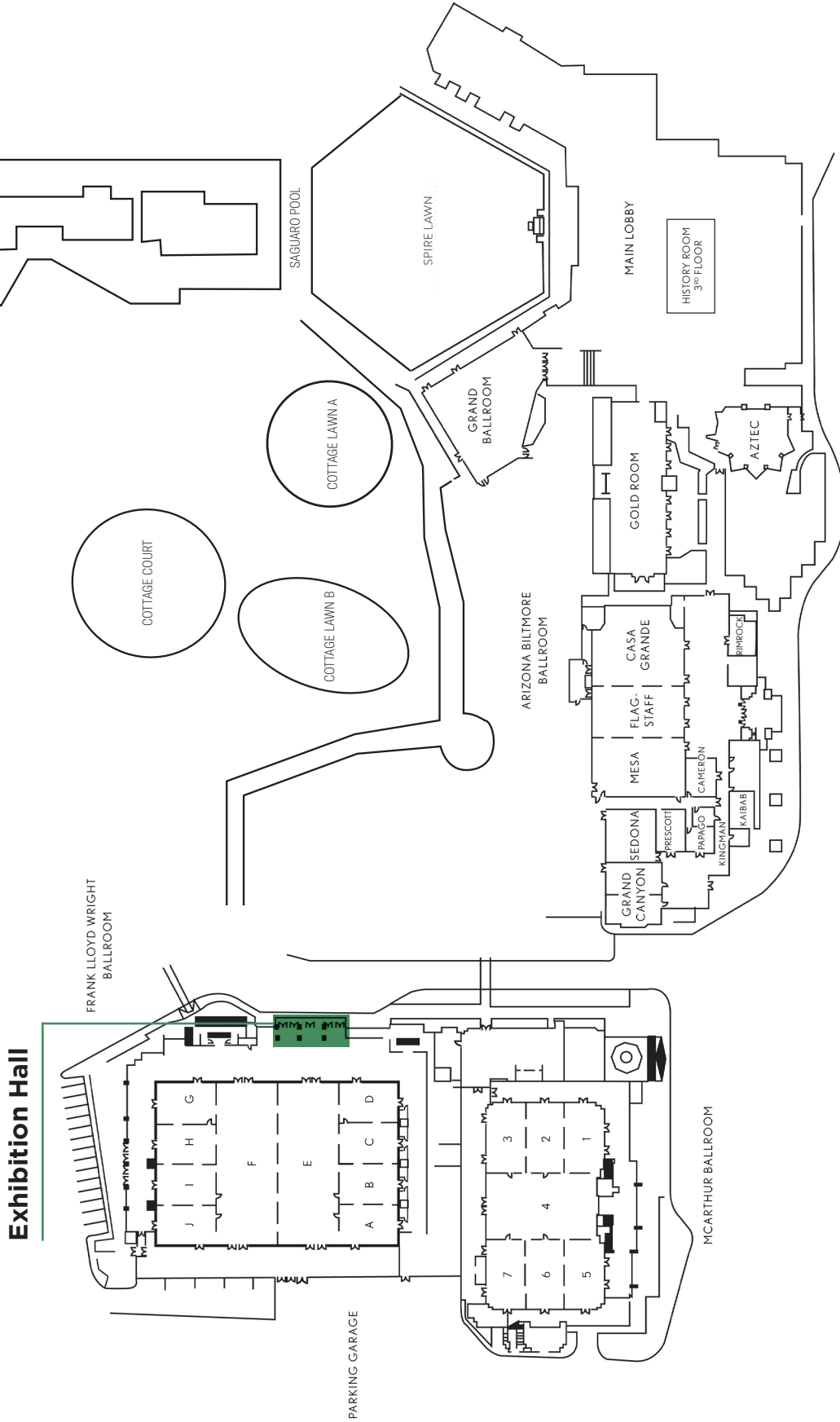


EXHIBIT HALL

Thank you to our exhibitors for their support of ASPIRE 2024



JOB FAIR



SCHEDULE AT A GLANCE

Sunday, September 8

3:00–6:00 p.m.

Registration/HFES Info Desk Open

Monday, September 9

7:00 a.m.–7:30 p.m.

Registration/HFES Info Desk Open

8:30 a.m.–12:00 p.m.

Half-Day AM Workshops

9:00 a.m.–4:30 p.m.

Full-Day Workshops

9:00 a.m.–5:00 p.m.

Student Career and Professional Development Day

10:45–11:15 a.m.

Coffee Break

10:30 a.m.–5:00 p.m.

Doctoral Colloquium

1:00–4:00 p.m.

HFES Science Policy Fellows

1:30–3:30 p.m.

Chapanis Award

1:30–5:00 p.m.

Half-day PM Workshops

2:30–3:00 p.m.

Coffee Break

3:30–5:00 p.m.

Council of Technical Groups Meeting

5:15–6:00 p.m.

First Time Attendee Meeting

6:00–8:00 p.m.

National Ergonomics Month Expo

6:00–8:00 p.m.

Opening Reception

Tuesday, September 10

7:00 a.m.–6:00 p.m.

Registration/HFES Info Desk Open

7:00–8:15 a.m.

Outreach Division Meeting

7:00 a.m.–8:00 p.m.

Birds of a Feather

7:30–8:00 a.m.

Coffee Break

8:00–9:30 a.m.

Opening Plenary Session

8:00 a.m.–7:00 p.m.

Student Lounge Open

9:45–10:45 a.m.

Concurrent Sessions

10:00 a.m.–5:00 p.m.

Job Fair Open

10:30–5:30 p.m.

Exhibits Open

10:45–11:15 a.m.

Coffee Break

10:45–11:15 a.m.

Collaborative Solutions Showcase

10:50–11:07 a.m.

Lightning Lesson

11:15 a.m.–12:15 p.m.

Concurrent Sessions

12:15–1:30 p.m.

Mentor-Mentee Luncheon (off-site)

12:15–1:30 p.m.

Local Chapter President's Lunch

1:30–2:30 p.m.

Concurrent Sessions

2:30–3:00 p.m.

Coffee Break

2:30–3:00 p.m.

Collaborative Solutions Showcase

2:35–4:12 p.m.

Lightning Lessons

3:00–5:15 p.m.

Concurrent Sessions

5:30–6:15 p.m.

OE TG Business Meeting

6:00–8:00 p.m.

BCPE/FPE/HFES Practitioners Reception

6:30–7:00 p.m.
Korean-HFES Affinity Group Meeting

6:30–7:30 p.m.
Student Reception

7:00–9:00 p.m.
PD/HC TG Networking Reception (Off-site)

7:30–8:00 p.m.
HFES Annual Business Meeting

Wednesday, September 11

7:00 a.m.–8:00 p.m.
Birds of a Feather

7:00 a.m.–8:00 p.m.
Scientific Publications Committee Meeting

7:30 a.m.–5:30 p.m.
Registration/HFES Info Desk Open

8:00 a.m.–7:00 p.m.
Student Lounge Open

10:00 a.m.–5:00 p.m.
Job Fair

10:30 a.m.–4:15 p.m.
Exhibits Open

10:45–11:15 a.m.
Coffee Break

10:45–11:15 a.m.
Collaborative Solutions Showcase

10:50–11:07 a.m.
Lightning Lessons

11:15 a.m.–12:15 p.m.
Concurrent Sessions

12:15–1:30 p.m.
Ergonomics in Design Editorial Board Luncheon

12:15–1:30 p.m.
Human Factors Editorial Board Luncheon

12:15–1:30 p.m.
Mentor-Mentee Luncheon (Off-site)

12:15–1:30 p.m.
U.S. TAG to ISO/TC 159 Meeting

12:15–1:30 p.m.
Extended Reality TG Meeting

12:15–1:30 p.m.
BIPOC Affinity Group Lunch

12:15–1:30 p.m.
Student Chapter Presidents Lunch

1:30–2:30 p.m.
Concurrent Sessions

2:15–1:30 p.m.
HF Editorial Board Lunch

2:15–3:00 p.m.
Korean-HFES Affinity Group Mentor-Mentee Meeting

2:30–3:00 p.m.
Refreshment Break

2:30–3:00 p.m.
Collaborative Solutions Showcase

2:35–2:52 p.m.
Lightning Lessons

3:00–4:00 p.m.
Concurrent Sessions

4:15–5:15 p.m.
Fellows Posters Session

4:15–5:15 p.m.
Concurrent Sessions

5:15–6:00 p.m.
First Time Attendee Meeting

5:30–6:30 p.m.
Poster Sessions I

6:30–7:30 p.m.
HC TG Business Meeting

Thursday, September 12

7:00 a.m.–8:00 p.m.
Birds of a Feather

7:30–8:00 a.m.
Coffee Break

7:30–8:15 a.m.
Technical Program Chairs Meeting

7:30 a.m.–5:00 p.m.
Registration/HFES Info Desk Open

8:00 a.m.–7:00 p.m.
Student Lounge Open

8:30–9:30 a.m.
Concurrent Sessions

9:45–10:45 a.m.
Concurrent Sessions

10:00 a.m.–5:00 p.m.
Job Fair

10:30 a.m.–4:15 p.m.
Exhibits Open

10:45–11:15 a.m.
Coffee Break

10:45–11:15 a.m.
Collaborative Solutions Showcase

10:50–10:57 a.m.
Lightning Lessons

11:15 a.m.–12:15 p.m.
Concurrent Sessions

12:15–1:30 p.m.
Journal of Cognitive Engineering and Decision
Making Editorial Board Luncheon

12:15–1:30 p.m.
Mentor-Mentee Luncheon (Off-site)

1:30–2:30 p.m.
Concurrent Sessions

2:30–3:00 p.m.
Coffee Break

2:30–3:00 p.m.
Collaborative Solutions Showcase

2:35–4:12 p.m.
Lightning Lessons

3:00–4:00 p.m.
Concurrent Sessions

4:15–5:15 p.m.
Concurrent Sessions

5:30–6:30 p.m.
Poster Session II

Friday, September 13

7:00–8:00 a.m.
Scientific Publications Committee Meeting

8:00 a.m.–12:00 p.m.
Registration/HFES Info Desk Open

8:00 a.m.–12:00 p.m.
Birds of a Feather

8:00 a.m.–12:00 p.m.
Student Lounge

8:30–9:30 a.m.
Concurrent Sessions

8:30–10:45 a.m.
Human Factors Extended Reality Showcase

9:35–9:42 a.m.
Lightning Lesson

9:45–10:45 a.m.
Concurrent Sessions

11:00 a.m.–12:00 p.m.
Unconference

EVENT HIGHLIGHTS

Lightning Lessons

Lightning Lesson presentations are concise talks lasting seven minutes, using a limited number of slides. They aim to present the main point of a topic briefly and effectively, rather than providing a detailed discussion.

Tuesday, September 10	9:35-9:42 a.m. 10:50-11:07 a.m. 2:35-2:52 p.m. 4:05-4:12 p.m.
Wednesday, September 11	9:35-9:42 a.m. 10:50-11:07 a.m. 2:35-2:52 p.m.
Thursday, September 12	9:35-9:42 a.m. 10:50-10:57 a.m. 2:35-2:52 p.m. 4:05-4:12 p.m.
Friday, September 13	9:35-9:42 a.m.

Collaborative Solutions Showcase

The Collaborative Solutions Showcase is a platform designed to encourage meaningful discussions, exchange of ideas, and collaborative problem-solving among meeting attendees. It is intended to foster the interchange of knowledge and promote networking.

Tuesday, September 10	10:45-11:15 a.m. 2:30-3:00 p.m.
Wednesday, September 11	10:45-11:15 a.m. 2:30-3:00 p.m.
Thursday, September 12	10:45-11:15 a.m. 2:30-3:00 p.m.

Opening Reception

The Opening Reception is an opportunity to network with other attendees to kick off the week at ASPIRE. Learn more about HFES' Technical and Affinity Groups by visiting their tables and speaking to leaders of these groups.

Monday, September 9	6:00-8:00 p.m.	<i>McArthur Ballroom</i>
----------------------------	----------------	--------------------------

HFES Job Fair

The HFES Job Fair at ASPIRE will provide a forum for employers to find talent and for job seekers to discover potential roles for the next phase in their careers.

Candidates seeking new career opportunities are encouraged to visit with participating employers in the Job Fair. Some employers will have literature display tables and personnel for impromptu discussions. Others will engage in on-site interviewing in semi-private booths, scheduled in advance of the meeting.

Job seekers attending do not need to register for the Job Fair and should bring copies of CVs/resumes and search the online Job Board in advance of the meeting to apply and potentially meet interviewers onsite.

This year we are offering a resume review session on Wednesday, September 11th for attendees that reserved a time slot online. The review session will include a brief assessment of the resume, targeted advice on things like clarity, keywords and relevance to the desired job and an opportunity for job seekers to ask questions and receive feedback.

Job Fair is located in the Mesa Room during these hours:

Tuesday, September 10	10:00 a.m. - 5:00 p.m
Wednesday, September 11	10:00 a.m. - 5:00 p.m
Thursday, September 12	10:00 a.m. - 5:00 p.m

Concession Lunch Schedule

Tuesday, September 10	12:00-2:00 p.m.	<i>Gold Room</i>
Wednesday, September 11	12:00-2:00 p.m.	<i>Gold Room</i>
Thursday, September 12	12:00-2:00 p.m.	<i>Gold Room</i>

Shuttle Bus to Biltmore Fashion Park

Monday, September 9	10:00 a.m.-2:00 p.m. 5:00-9:00 p.m.	<i>Conference Entrance</i>
Tuesday, September 10	10:00 a.m.-2:00 p.m. 5:00-9:00 p.m.	<i>Conference Entrance</i>
Wednesday, September 11	10:00 a.m.-2:00 p.m. 5:00-9:00 p.m.	<i>Conference Entrance</i>
Thursday, September 12	10:00 a.m.-2:00 p.m. 5:00-9:00 p.m.	<i>Conference Entrance</i>

CODE OF CONDUCT

HFES is committed to providing a safe and productive meeting environment free of discrimination, hostility, and harassment, in any form, for everyone. As a professional society, HFES is strongly committed to diversity, equity, professional expression of ideas, and the ethical treatment of all members and meeting participants. HFES is committed to emphasizing and enforcing the Society's values and firm belief in civil discourse, even during critical examination and critique of ideas. We value and aim to advance the free exploration of competing ideas and concepts – with a fundamental respect for the rights, dignity, and value of all persons. We aim to promote the shared responsibility to establish, maintain, and protect such an environment for the benefit of all.

For more information, visit hfes.org/About-HFES/Statement-of-Appropriate-Conduct.

HFES ASPIRE BRANDED T-SHIRT

HFES is offering you the option to purchase ASPIRE branded T-shirts along with your registration for this year's International Annual Meeting. A limited number of t-shirts are available for sale on-site but will sell out. Get yours early! Please see below for information:

Price

\$30 per shirt

Available Sizes

S-6XL



INTERNET INFORMATION

HFES attendees can enjoy complimentary Wi-Fi in the meeting space. To connect to the network, please use the information below.

Network

Hilton Honors Meeting

Password

aspire24

HFES SAFE HARBOR STATEMENT

Effective science requires the free exchange of ideas.

HFES asks attendees to create an open, interactive space where all voices are valued and respected. Recognize your privilege and make room for underrepresented, minority, and marginalized voices to be heard. If you are experiencing any obstacles to engaging in conference activities, please contact the meeting Ombuds. Your feedback is important to us.

HFES OMBUDS PROGRAM

HFES is pleased to announce that it will provide Ombuds services at its live, in-person meetings. The Ombuds is an independent, impartial, off-the-record, and confidential resource for meeting attendees to obtain information, seek guidance, voice their concerns about misconduct, harassment, discrimination, and hostility, and to discuss options for how they can deal with concerns that they may experience or observe at HFES meetings.

We are pleased to announce that HFES member Sylvain Bruni will serve in this role. Symposium participants may contact Sylvain Bruni by telephone at **(617) 417-0359** or by email at Ombuds@hfes.org. See the mobile app for more information.

TECHNICAL TOURS

Technical tours provide HFES Annual Meeting attendees with opportunities to see HF/E in action at special sale prices! The following tour sites have been selected to showcase settings in which researchers and practitioners work. For those tours not sold out in advance, tickets may be purchased during the meeting. Tickets will be sold on a first-come, first-served basis on receipt of fully paid registration. HFES reserves the right to cancel any tour. A full refund will be provided.

To Register

Inquire at the registration desk if you wish to sign up for a tour.

SHUTTLE INFORMATION

Tuesday, September 10

Location: J.S. Held LLC, Phoenix User Research Labs (URL)

Tour Start and End Time: 1:00-3:00 p.m.

Shuttle Departure: 12:30 p.m.

Wednesday, September 11

Location: ASU CHART Labs

Tour Start and End Time: 8:30-10:00 a.m.

Shuttle Departure: 7:30 a.m.

Location: Exponent, Inc. Test & Engineering Center

Tour Start and End Time: 2:00-3:15 pm

Shuttle Departure: 1:15 p.m.

Thursday, September 12

Location: Amazon Fulfillment Center

Tour Start and End Time: 9:30-11:00 a.m.

Shuttle Departure: 8:45 a.m.

Present your ticket and board your shuttle at least 15 minutes before departure (you will receive your ticket at the HFES registration desk on-site). Shuttles will depart on time. No refunds are provided if you miss your shuttle.

PROGRAM AGENDA AND KEY-ATTACHED

MONDAY, SEPTEMBER 9	
8:30 a.m.-12:00 p.m.	
The Role of Human Factors in AI for Social Good <i>FLW Salon B</i> Presenter: <i>Dr. Mark Chignell, University of Toronto</i>	Workshop
9:00 a.m.-4:30 p.m.	
Human-AI Teaming: Design and Evaluation <i>FLW Salon I</i> Presenters: <i>Patricia McDermott, The MITRE Corporation; Ronna ten Brink, The MITRE Corporation</i>	Workshop
Workshop on Election Integrity <i>FLW Salon D</i> Presenters: <i>Dr. Gretchen Macht, University of Rhode Island; Dr. Michael Byrne, Rice University; Dr. Philip Kortum, Rice University</i>	Workshop
Integrative Modeling and Simulation of Human Behavior and Human-Machine Systems With the Queuing Network Architecture <i>FLW Salon G</i> Presenters: <i>Yili Liu, University of Michigan</i>	Workshop
Designing for Implementation: Implementation Science for Human Factors in Healthcare <i>FLW Salon H</i> Presenters: <i>Edmond Ramly, Indiana University, Bloomington; Reid Parks, Indiana University, Bloomington; Nicole Werner, Indiana University, Bloomington; Richard Holden, Indiana University, Bloomington</i>	Workshop
9:00 a.m.-5:00 p.m.	
Student Career and Professional Development Day <i>Grand Ballroom</i>	Workshop
10:30 a.m.-5:00 p.m.	
Doctoral Colloquium <i>FLW Salon A</i>	Workshop
1:30-5:00 p.m.	
Designing Technology for Older Adults With Cognitive Impairments <i>FLW Salon B</i> Presenters: <i>Dr. Walter Boot, Weill Cornell Medicine; Dr. Sara Czaja, Weill Cornell Medicine; Dr. Wendy Rogers, University of Illinois; Dr. Neil Charness, Florida State University</i>	Workshop
TUESDAY, SEPTEMBER 10	
8:00-9:30 a.m.	
Opening Plenary Session <i>FLW, Salon E-F</i> Featuring <i>HFES awards and honors as well as keynote presenter Joe Castillo.</i>	

9:45-10:45 a.m.	
<p>AS1: Advanced Air Mobility FLW Salon A Session Chair: <i>Amanda Harwood (Northrop Grumman)</i></p> <p>The Impact of Flying Experience on Mental Workload Using a Simulated eVTOL Aircraft Author: <i>Jesus Viramontes, Joby Aviation</i></p> <p>Creating Consensus in Advanced Air Mobility: A Standardized Tool for Contextualizing Human-Machine Interactions Authors: <i>Daniel Nguyen, Aptima, Inc.; Samantha Emerson, Aptima, Inc.; Sylvain Bruni, Aptima, Inc.; Dr. Summer Rebensky, Aptima, Inc.; Dr. Maria Chaparro-Osman, Aptima, Inc.; Cherrise Ficke, Aptima, Inc.; Olivia Fox Cotton, Aptima, Inc.; Liam Stalker, Aptima, Inc.; Dr. Kent Halverson, Aptima, Inc.</i></p> <p>Right On Time: Required Time of Arrival (RTA) to Anticipate Human Factors Issues With Trajectory-Based Operations (TBO) Authors: <i>Cécile Lescieux, Polytechnique Montreal; Juyeon Kang, Hanseo University; Hans Obas, Polytechnique Montreal; Nami Bae, Bombardier; Philippe Doyon-Poulin, Polytechnique Montreal</i></p>	<p>Lecture Aerospace Systems Track</p>
<p>HPM1: Human Performance Modeling FLW Salon B Session Chair: <i>Na Du (University of Pittsburgh)</i></p> <p>Applying the SEEV Model to Assess Where People Will Look: Practical Considerations Author: <i>Paul Green, University of Michigan</i></p> <p>Verification and Validation of Cognitive Workload Models for Adaptive Automation Tasks Author: <i>Charles Rowan, Naval Postgraduate School</i></p> <p>Human-Integrated System Simulation Analysis “in the Wild” Authors: <i>Andrew Abbate, Pacific Science & Engineering Group; Maia Cook, Pacific Science & Engineering Group</i></p>	<p>Lecture Human Performance Modeling Track</p>
<p>CEDM1: Trust in Human-Machine Teams FLW Salon C Session Chair: <i>Samantha Krening (The Ohio State University)</i></p> <p>Attentional Entrainment Can Reflect Social Motivation in Multi-Team-Systems: Evidence From Laboratory Research Authors: <i>Dirk Schulze Kissing, German Aerospace Center; Carmen Bruder, German Aerospace Center</i></p> <p>Evaluating The Influence of Incorrect Reassurances on Trust in Imperfect Automated Decision Aid Authors: <i>X. Jessie Yang, University of Michigan; Jin Yong Kim, University of Michigan; Olivia Richie, University of Michigan</i></p> <p>Multi-Measure Trust Calibration in Expert Interactions With AI-Enabled Decision Support Systems: A Multiple Cause, Multiple (Behavioral) Indicator Model Author: <i>Myke Cohen, Arizona State University</i></p>	<p>Lecture Human Performance Modeling Track</p>
<p>USE1: Voice and Virtual Reality Usability and System Evaluation FLW Salon D Session Chair: <i>Amrita Sidhu Maguire (Dell Technologies), Dina Kanaan (University of Toronto)</i></p> <p>How Does Variation in AI Performance Affect Trust in AI-infused Systems: A Case Study With In-Vehicle Voice Control Systems Authors: <i>Feiqi Gu, The Hong Kong University of Science and Technology (Guangzhou); Haosong Xu, The Hong Kong University of Science and Technology (Guangzhou); Dengbo He, The Hong Kong University of Science and Technology (Guangzhou)</i></p> <p>The Importance of Timing — An Expert Evaluation on Latencies for Voice Assistants Authors: <i>Denise Sogemeier, BMW Group; Yannick Forster, BMW Group; Frederik Naujoks, BMW Group; Josef F. Krems, University of Technology Chemnitz; Andreas Keinath, BMW Group</i></p> <p>Examining the Effects of Embodiment on Working Memory Performance in VR Authors: <i>Linfeng Wu, North Carolina State University; Karen Chen, North Carolina State University</i></p>	<p>Lecture Usability and System Evaluation Track</p>

<p>ST1: Trust in Autonomous Driving Systems: Before, During and After Interactions FLW Salon G Session Chair: <i>Mansoor Nasir (Ford Motor Company); Dina Kanaan (University of Toronto)</i></p> <p>Influence of Demographic Factors on the Structure of Initial Trust in Autonomous Driving Surface Transportation Authors: <i>Zixin Cui, University of Tsukuba; ianzhi Tu, University of Tsukuba; Jieun Lee, Pukyong National University; Makoto Itoh, University of Tsukuba</i></p> <p>Assessing Drivers' Trust, Compliance and Reliance in an Automated Flood Warning System: Effects of Errors Types and System Reliability Authors: <i>Tianyi (Sherry) Mao, Rice University; Katherine R. Garcia, Rice University; Jing Chen, Rice University</i></p> <p>An Exploration of Users' Trust in and Willingness to Pay for Fully Driverless Vehicles After Their First Ride Authors: <i>Zhenyu Wang, The Hong Kong University of Science and Technology (Guangzhou); Haolong Hu, The Hong Kong University of Science and Technology (Guangzhou); Meng Sun, The Hong Kong University of Science and Technology (Guangzhou); Dengbo He, The Hong Kong University of Science and Technology (Guangzhou)</i></p>	<p>Lecture Surface Transportation Track</p>
<p>OE1: Back Exoskeletons FLW Salon H Session Chair: <i>Victor Paquet (University at Buffalo)</i></p> <p>Effects of Prolonged Exposure to Passive Back-Support Exoskeletons on Gait Spatiotemporal Measures Authors: <i>Jessica Aviles, Clemson University; Duleepa Subasinghe, Clemson University; Divya Subasinghe, Clemson University</i></p> <p>Effects of Back Support Exoskeletons on Perceived Exertion and Mental Workload During Simulated Tile Installation Authors: <i>Ahmad Raza Usmani, Virginia Polytechnic Institute and State University; Mohammad Sadra Rajabi, Virginia Polytechnic Institute and State University; Aanuoluwapo Ojelade, The State University of New York at Buffalo; Sunwook Kim, Virginia Polytechnic Institute and State University; Carisa Harris-Adamson, University of California, Berkeley; Alan Barr, University of California, Berkeley; Maury Nussbaum, Virginia Polytechnic Institute and State University</i></p> <p>Movement and Neuromuscular Control Strategies With Soft Passive Low Back Exoskeleton Use During EMS-Specific Physical Agility Tests Authors: <i>Tiash Rana Mukherjee, Texas A&M University; Tiago Xavier Do Vale Gunter, Texas A&M University; Eshan Manchanda, Texas A&M University; Dr. Oshin Tyagi, University of Michigan; Dr. Ranjana Mehta, University of Wisconsin - Madison</i></p>	<p>Lecture Occupational Ergonomics Track</p>
<p>CYB1: Cyber Deception FLW Salon I Session Chair: <i>Prashanth Rajivan (University of Washington)</i></p> <p>Examining the Effectiveness of Speech and Earcon Alerts for Aiding Phishing Email Detection Authors: <i>Yining (Elena) Zhang, Rice University; Jing Chen, Rice University; Lila Berger, Rice University</i></p> <p>Agreement and Divergence in Predicting Human Phishing Classification Decisions Authors: <i>Shova Kuikel, University of Texas at El Paso; Maria José Ferreira, Carnegie Mellon University; Kuldeep Singh, University of Texas at El Paso; Palvi Aggarwal, The University of Texas at El Paso; Cleotilde Gonzalez, Carnegie Mellon University</i></p> <p>Where Do Users Look When Deciding If a Text Message Is Safe or Malicious? Authors: <i>Eleni Alexandra Katsarakas, Old Dominion University; Morgan Edwards, Old Dominion University; Jeremiah Still, Old Dominion University</i></p> <p>Three Attempts to Improve Human Deepfake Detection Performance Author: <i>Zachary Tidler, Georgia Institute of Technology</i></p>	<p>Lecture Cybersecurity Track</p>

<p>XR1: Cueing Considerations for Extended-Reality Environments FLW Salon J Session Chair(s): <i>Chidubem Nuela Enebechi (Purdue University); Stephanie Fussell (Kent State University)</i></p> <p>Investigating the Impacts of Different Warning Modalities on Individual's Risk Perception and Response Behaviors Through a Virtual Reality (VR) Experiment Authors: <i>Tolu Sanni, University of Alabama; Ziming Liu, Colorado School of Mines; Jiyoung Lee, Sungkyunkwan University; Wei Song, University of Alabama; Jun Liu, University of Alabama; Yangming Shi, Colorado School of Mines</i></p> <p>2D and 3D Augmented Reality Attention Cueing Comparisons in 3D Target Search Authors: <i>Christopher Wickens, Colorado State University; Brendan Kelley, Colorado State University; Amelia Warden, Colorado State University; Benjamin Clegg, Montana State University; Francisco Ortego, Colorado State University</i></p> <p>Astronaut Performance in Extra-Vehicular Activities Through Augmented Reality: A Study on Lighting Conditions and Cognitive Workload Author(s): <i>Shrreya Agarwal, Rice University; Melissa Cloutier, Rice University</i></p>	<p>Lecture Extended Reality Track</p>
<p>HC1: The Role of Simulation-Based Evaluations of Physical and Virtual Mock-Ups in Designing Safer Hospital Environments Grand Ballroom Session Chair: <i>Krystyna Gielo-Perczak (University of Connecticut)</i></p> <p>The Role of Simulation-Based Evaluations of Physical and Virtual Mock-ups in Designing Safer Hospital Environments Authors: <i>Anjali Joseph, Clemson University; Nora Colman, Children's Healthcare of Atlanta; Deborah Winger, Applied Research, HKS</i></p>	<p>Discussion Panel Health Care Track</p>
<p>HART1: Human-AI-Robot Teaming and Workload Flagstaff Session Chair: <i>Jennifer Mitchell (Virginia Polytechnic Institute and State University)</i></p> <p>Externalized and Extended Cognition: Cognitive Offloading for Manned-Unmanned Teaming Authors: <i>Giovani Diaz Alfaro, University of Central Florida; Stephen Fiore, University of Central Florida</i></p> <p>Interpretable Models for Near-Real-Time Prediction of Team Cognitive Workload in Complex Sociotechnical Environments Authors: <i>Nurun Naher, University of Central Florida; Mary Jean Amon, University of Central Florida; Stephen M. Fiore, University of Central Florida</i></p> <p>Adaptive Mission Planning: Initial Development of Technologies for Evolving Workload Predictions Across Missions Authors: <i>Anthony Baker, U.S. Army DEVCOM Army Research Laboratory; Aaron Necaie, University of Central Florida; Sarah Thomas, University of Central Florida; David Chhan, U.S. Army DEVCOM Army Research Laboratory; Joe Rexwinkle, U.S. Army DEVCOM Army Research Laboratory</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>

11:15 a.m.-12:15 p.m	
<p>F1: Forensic Human Factors FLW Salon A Session Chair: <i>Jeffrey Martin (DSI Consulting)</i></p> <p>Taking the Time to Reflect on Perception Response Time Authors: <i>Dr. Ellie L. Francis, Visibility, Conspicuity & Human Factors, LLC; Richard Tyrrell, Clemson University; Jeffrey Andre, James Madison University</i></p> <p>The Role of Human Factors, Ergonomics and 3D Modeling When Evaluating Incidents Involving Micromobility Devices: An E-Scooter Fall Case Authors: <i>Rosemarie Figueroa Jacinto, Rimkus; Janna Webb, JS Held</i></p> <p>Case Study: Can Deaf Truck Drivers Be Trained in a Reasonably Safe Manner; An Equal Employment Opportunity Commission Suit Authors: <i>Steven Arndt, Explico; E. Lilian Garza, Explico; Kyra Phillips, Explico</i></p> <p>Forensic Analysis of a Traffic Crash Involving Human Factors in Design and Mismanagement of an Industrial Facility Authors: <i>Joseph Cohen, Error Analysis, Inc.</i></p>	Industry/ Practitioner Case Study Lecture Forensics Professional Track
<p>EDU1: Teaching Undergraduate Human Factors—Challenges and Opportunities FLW Salon B Session Chair: <i>Nancy Stone (Middle Tennessee State University)</i></p> <p>Teaching Undergraduate Human Factors: Challenges and Opportunities Panelists: <i>Joshua Shive, Tennessee State University; Gabriella Hancock, California State University, Long Beach; Alex Chaparro, Embry-Riddle Aeronautical University; Heather Lum, Arizona State University</i></p>	Discussion Panel Education Track
<p>S1: Scientist to Practitioner and Back Again—Tales From the Field FLW Salon C Session Chair: <i>S. Camille Peres, U.S. Nuclear Regulatory Commission</i></p> <p>Scientist to Practitioner and Back Again—Tales From the Field Panelists: <i>Amy D'Agostino, U.S. Nuclear Regulatory Commission; Kritina (Tina) Holden, Leidos at the NASA Johnson Space Center; Philip Kortum, Rice University; Arwen DeCostanza, U.S. Army Futures Command; Susan Hallbeck, Mayo Clinic</i></p>	Discussion Panel Safety Track
<p>ED1: Integrative Approaches in Environmental Design FLW Salon D Session Chair: <i>Kaitlin Gallagher (University of Arkansas)</i></p> <p>Pathfinder Networks: Evaluating Injury and Safety Using Restaurant Workers' Mental Models Authors: <i>Hari Iyer, Arizona State University; Joel Reynolds, DePaul University; Chang S. Nam, Kettering University; Heejin Jeong, Arizona State University</i></p> <p>Exploring Physiological Responses Through Electrodermal Activity for Evaluating the Impact of Universal Design Features in a Hotel Environment Authors: <i>Taylor Quinn, University at Buffalo; Lora Cavuoto, University at Buffalo; Zahra Vahedi, University at Buffalo</i></p> <p>Employee and Supervisor Perceptions of a Policy Promoting Standing in the Workplace: A Qualitative Study Authors: <i>Kaitlin Gallagher, University of Arkansas; Rebecca Leach, University of Arkansas; Caleb Burruss, University of Oklahoma</i></p>	Lecture Environmental Design Track

<p>ST2: Automated Driving Systems: Takeover Measurements and Prediction Methods FLW Salon G Session Chair(s): <i>Shannon Roberts (University of Massachusetts, Amherst); Shashank Mehrotra (Honda Research Institute USA)</i></p> <p>Towards Integrated Takeover Performance Measurement: Validation of Fréchet Distance as a Takeover Performance Metric Authors: <i>X. Jessie Yang, University of Michigan; Jundi Liu, University of Michigan; Alicia Romo, AAA Foundation for Traffic Safety; William Horrey, AAA Foundation for Traffic Safety; Dawn Tilbury, University of Michigan; Lionel Robert, University of Michigan; Feng Zhou, University of Michigan, Dearborn; Lisa Molnar, University of Michigan Transportation Institute</i></p> <p>Posture and Performance: Assessing the Influence of Body Posture and Non-Driving-Related Task Engagement on Automated Vehicle Takeover Performance Authors: <i>Nade Liang, Purdue University; Ryan Villarreal, Purdue University; Denny Yu, Purdue University; Mansoor Nasir, Ford Motor Company; Brandon Pitts, Purdue University</i></p> <p>Machine Learning for Prediction of Driver Takeover Time in Automated Driving: Insights From Non-Urgent Low Consequence Scenarios Authors: <i>Ryan Thomas Villarreal, Purdue University; Nade Liang, Purdue University; Brandon Pitts, Purdue University; Mansoor Nasir, Ford Motor Company; Denny Yu, Purdue University</i></p>	<p>Lecture Surface Transportation Track</p>
<p>T1 With CEDM: Cognition in Training and Learning FLW Salon H Session Chair: <i>Jennifer Winner (U.S. Air Force Research Laboratory, The Ohio State University)</i></p> <p>Examining Cognitive-Based Training to Improve Young Drivers' Speed Compliance in Australia Authors: <i>Oleksandra Molloy, University of New South Wales; Max Prestidge, University of New South Wales</i></p> <p>A Framework for Mass Casualties Incident Commander Simulation Author: <i>Omer Perry, Ben-Gurion University of the Negev</i></p> <p>Scaffolding Team Minds: Using Metacognitive Training to Boost Social Cognition and Theory of Mind for Effective Collaborative Problem-Solving Authors: <i>Fiona Duruaku, University of Central Florida; Blake Nguyen, University of Central Florida; Olivia B. Newton, University of Central Florida; Stephen M. Fiore, University of Central Florida; Florian Jentsch, University of Central Florida</i></p>	<p>Lecture Cognitive Engineering & Decision Making Track Training Track</p>
<p>SS1: Chair's Forum: Advancing Human Factors: Insights from NSF Program Directors FLW Salon I Session Chair(s): <i>Farzan Sasangohar (Texas A&M University)</i></p>	<p>Special Session</p>
<p>PP1: Celebrating the Contributions of Dr. Robert W. Proctor to the Field of Human Factors FLW Salon J Session Chair(s): <i>Kim Vu (California State University, Long Beach)</i></p> <p>Celebrating the Contributions of Dr. Robert W. Proctor to the Field of Human Factors Authors: <i>Patricia DeLucia, Rice University; Christopher Wickens, Alion Science and Technology; Christopher Mayhorn, North Carolina State University; Peter Hancock, Peter Hancock; Jing Chen, Rice University; Kim-Phuong L. Vu, California State University Long Beach; Tianfang Han, University of Idaho</i></p>	<p>Invited Symposium Perception and Performance Track</p>

<p>HC2: Equity in Healthcare I Grand Ballroom Session Chairs: <i>Dominique Engome Tchupo (University of Rhode island); Aanuoluwapo Ojelade (University at Buffalo)</i></p> <p>Using a Critical FMEA Approach to Identify Equity-Related Failures in Usability Evaluations of Health Technologies Authors: <i>D. Ruben Tjhie, University of Toronto; Enid Montague, University of Toronto; Joseph Cafazzo; University of Toronto</i></p> <p>Disabled Individuals' Negative Perceptions of Mobile Health Apps: Design Guidance for HFE Practitioners Authors: <i>Eleanore Scheer, University of Virginia; Jessica Arora, University of Virginia; Courtney C. Rogers, University of Virginia; Claire Wellbeloved-Stone, Blue Trunk Foundation; Mary Collins, TIDI Products; Rupa S. Valdez, University of Virginia</i></p> <p>Using Patient Journey Mapping to Design More Equitable Maternal Care Authors: <i>Nicole Hicks, University of Toronto; Kristin Tully, University of North Carolina - Chapel Hill; Christopher Goodier, Medical University of South Carolina; Sreenath Chalil Medathil, State University of New York at Binghamton; Ayaba Logan, Medical University of South Carolina; Myrte de Alfred, University of Toronto</i></p>	<p>Lecture Health Care Track</p>
<p>HART2: Human-AI-Robot Teaming Trust 1 (Groups) Flagstaff Session Chair: <i>Kieran Smith (University of Colorado, Draper)</i></p> <p>The Relevance of Seemingly Irrelevant Group Interactions for Automation Trust: An Analysis of Naturalistic Team Conversations on Contingent Behaviors Authors: <i>Vianney Renata, University of Wisconsin - Madison; Morgan Klaeser, University of Wisconsin - Madison; John Lee, University of Wisconsin - Madison</i></p> <p>Toward a Linguistic Fingerprint™ of Trust Authors: <i>Derek Koehl, The University of Alabama in Huntsville; Lisa Vangsness, The University of Alabama in Huntsville</i></p> <p>Navigating Trust: The Interplay of Trust in Automation and Team Communication in an Extended Simulated Military Mission Authors: <i>T'kara Mullins, University of Central Florida; Aaron Necaise, University of Central Florida; Stephen Fiore, University of Central Florida; Mary Jean Amon, University of Central Florida</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>
<p>1:30-2:30 p.m</p>	
<p>AS2: The Promise of Urban Air Mobility FLW Salon A Session Chair: <i>Kim-Phuong Vu (California State University, Long Beach)</i></p> <p>The Promise of Urban Air Mobility (UAM) Panelists: <i>Quang Dao, NASA Ames Research Center; James Cunningham, Edwards Airforce Base; Mike Matessa, Collins Aerospace; Vernol Battiste, San Jose State University Research Foundation; Thomas Strybel, California State University, Long Beach</i></p>	<p>Discussion Panel Aerospace Systems Track</p>
<p>EDU2: VR and Generative AI—Tools for Learning and Research FLW Salon B Session Chair: <i>Heather Lum (Arizona State University)</i></p> <p>Leveraging ChatGPT for Qualitative Data Analysis to Assess Its Potential Efficiency and Scalability Authors: <i>India Allen, Visionary Consulting Partners, LLC; Stephanie Thomas, Visionary Consulting Partners, LLC; Renee Jones, Spectrum Software Technology, Inc.; Claire Hayes Watson, Visionary Consulting Partners, LLC; Kyle Maddox, U.S. Department of Veterans Affairs</i></p> <p>Perception in Virtual Worlds: Psychology and Design Students Collaborate to Study User Experience in Videogames Authors: <i>Benjamin van Buren, The New School; Colleen Macklin, Parsons School of Design</i></p>	<p>Lecture Education Track</p>

<p>CEDM2: Human and Machine Teaming FLW Salon C Session Chair: <i>Karen Feigh (Georgia Institute of Technology)</i></p> <p>Individual Characteristics and Operator Dependence Behaviors in Human-Automation Teams: An Exploratory Study Authors: <i>Drew Hidalgo, University of Michigan; Patrik T. Schuler, University of Michigan; X. Jessie Yang, University of Michigan</i></p> <p>An Evaluation of Mental Fatigue in Teaming Environments: A Systematic Reivew Authors: <i>Camden Brady, Clemson University; Sarvesh Sawant, Clemson University; Kapil Madathil, Clemson University; Nathan McNeese, Clemson University</i></p> <p>Disengaging Automation: Understanding Drivers' Decisions to Turn Off Vehicle Automation Using an Evidence Accumulation Framework Authors: <i>Amudha Varshini Kamaraj, University of Wisconsin – Madison; John Lee, University of Wisconsin – Madison; Zhenhao Zhou, University of Wisconsin – Madison; Xinzhi Zhong, University of Wisconsin – Madison; Vianney Renata, University of Wisconsin – Madison; Wissam Kontar, University of Wisconsin – Madison; Soyoungh Ahn, University of Wisconsin – Madison; Dan Negrut, University of Wisconsin – Madison</i></p>	<p>Lecture Cognitive Engineering & Decision Making Track</p>
<p>SU1: Are Humans Still Necessary? FLW Salon D Session Chair: <i>Judi See (Sandia National Laboratories)</i></p> <p>Up for Debate: Are Humans Still Necessary? Authors: <i>Judi See, Sandia National Laboratories; Julie Gilpin-McMinn, Spirit AeroSystems</i></p>	<p>Alternative Format</p>
<p>ST3: Mental Models of ADAS FLW Salon G Session Chairs: <i>Jon Antin (Virginia Tech Transportation Institute); Anne Garcia (National Transportation Safety Board)</i></p> <p>Transfer of Learning on Driver's Mental Model of ADAS Author: <i>Jimin Kim, University of Iowa</i></p> <p>Consumer Education With and Without Responsibility Information for Two ADAS Over-the-Air Updates Authors: <i>John Gaspar, University of Iowa; Justin Mason, University of Iowa; Cher Carney, University of Iowa; John Lenneman, Toyota Collaborative Safety Research Center</i></p>	<p>Lecture Surface Transportation Track</p>
<p>OE2: Update on Ergonomics Standards in the United States FLW Salon H Session Chair: <i>Gary Orr (USDOL)</i></p> <p>Update on Ergonomics Standards in the United States Author(s): <i>Richard Goggins, Washington State Department of Labor and Industries; Breca Tschida, Minnesota OSHA; David Cochran, University of Nebraska Lincoln</i></p>	<p>Discussion Panel Occupational Ergonomics Track</p>
<p>SS2: Pitch Clinic for Practitioners FLW Salon I Session Chair: <i>Sylvain Bruni (Aptima, Inc.)</i></p>	<p>Special Session</p>

<p>XR2: Ergonomics and Workload in Augmented Reality FLW Salon J Session Chairs: <i>Stephanie Fussell (Kent State University); Randall Spain (U.S. Army DEVCOM Soldier Center)</i></p> <p>Utilizing Motion Capture to Quantify Physical Workload in Augmented Reality Learning Environments Authors: <i>Varun Pulipati, University of Missouri, Columbia; Jung Hyup Kim, University of Missouri, Columbia; Fang Wang, University of Missouri, Columbia; Sara Mostowfi, University of Missouri, Columbia; Danielle Oprean, University of Missouri, Columbia; Kangwon Seo, University of Missouri, Columbia</i></p> <p>Ergonomic Augmented Reality Glasses Development for Workload Detection With Biofeedback Data and Machine Learning Author: <i>Junho Park, Santa Clara University</i></p> <p>Understanding the Influence of Fatigue on Full Arm Gestures in Augmented Reality Environments Authors: <i>Jung Hyup Kim, University of Missouri, Columbia; Varun Pulipati, University of Missouri, Columbia; Ching-Yun Yu, University of Missouri, Columbia</i></p>	<p>Lecture Extended Reality Track</p>
<p>HC3: Ergonomics in Healthcare I Grand Ballroom Session Chair: <i>Kermit Davis (University of Cincinnati)</i></p> <p>Classifying Restricted Knee Flexion and Affected Sides Using Plantar Pressure Data During Walking: A Preliminary Study Authors: <i>Seobin Choi, Oregon State University; Gwanseob Shin, Ulsan National Institute of Science & Technology</i></p> <p>A Novel Labeling Method of Physiological-Based Pressure Pain Assessment Among Patients With and Without Chronic Low Back Pain Authors: <i>Wenchao Zhu, Northeastern University; Yan Xiao, Northeastern University; Yingzi Lin, Northeastern University</i></p> <p>Do Exoskeletons Support Minimally Invasive Surgical Postures? A Systematic Evaluation Across a Series of Typical Surgical Postures Authors: <i>Alec Gonzales, Clemson University; Jackie Cha, Clemson University</i></p>	<p>Lecture Health Care Track</p>
<p>HART3: Human-AI-Robot Teaming Trust 2 (Dynamics) Flagstaff Session Chair: <i>Jade Driggs (Wichita State University)</i></p> <p>Predicting Trust Dynamics With Personal Characteristics Authors: <i>Hyesun Chung, University of Michigan; X. Jessie Yang, University of Michigan</i></p> <p>Trust Is Contagious: Social Influences in Human-Human-AI Team Authors: <i>Emanuel Rojas, Georgia Institute of Technology; Mengyao Li, Georgia Institute of Technology</i></p> <p>Behave Yourself! Behavioral Indicators of Trust in Human Agent Teams Authors: <i>Kendall Carmody, Florida Institute of Technology; Vivek Sharma, Florida Institute of Technology; Arianna Addis, Florida Institute of Technology; Daniel Nguyen, Aptima, Inc.; Cherrise Ficke, Aptima, Inc.; Amanda Thayer, Florida Institute of Technology; Jessica Wildman, Florida Institute of Technology; Meredith Carroll, Florida Institute of Technology</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>

3:00-4:00 p.m	
<p>A1: Embrace Aging for a Better Future FLW Salon A Session Chair: <i>Yue Luo (San Jose State University, Department of Industrial and Systems Engineering)</i></p> <p>A Systematic Review Towards a Comprehensive Framework for Measuring Non-Chronological Age Authors: <i>Nidhi Milind, San Jose State University; Poorva Jain, San Jose State University; Gaojian Huang, San Jose State University</i></p> <p>Exploring Attitudes Towards Smart Home Technology Through Focus Groups: Comparing Older Adults With and Without Health Conditions Authors: <i>Poorva Jain, San Jose State University; Swethasree Pendyala, San Jose State University; Egbe-Etu Etu, San Jose State University; Zhi Zhang, San Jose State University; Minal Shah, San Jose State University; Jordan Larot, San Jose State University; Gaojian Huang, San Jose State University</i></p> <p>Challenges of Older Adults in Adopting Automated Vehicles: A Systematic Review Authors: <i>Brandon Pitts, Purdue University; Gen Li, Purdue University; Jing Zang, Purdue University; Myeongkyu Lee, Purdue University</i></p>	<p>Lecture Aging Track</p>
<p>ID1: Individual Differences Related to Physical and Mental Health FLW Salon B Session Chair(s): <i>Mustafa Demir (Texas A&M University)</i></p> <p>Exploring Neurodiverse Collaboration Between Autistic and Non-autistic Adults in an Online Setting: A Pilot Study Authors: <i>Manhua Wang, Virginia Polytechnic Institute and State University; Megan Fok, Virginia Polytechnic Institute and State University; Jisun Kim, Virginia Polytechnic Institute and State University; Victoria Izaac, Virginia Polytechnic Institute and State University; Caroline Byrd Hornburg, Virginia Polytechnic Institute and State University; Angela Scarpa, Virginia Polytechnic Institute and State University; Myounghoon Jeon, Virginia Polytechnic Institute and State University; Sunwook Kim, Virginia Polytechnic Institute and State University</i></p> <p>Understanding Contemporary Digital Habits, Behavior and Digital Addiction Interventions : A Meta Analysis Authors: <i>Yesh Chala, Arizona State University; Heather Lum, Arizona State University</i></p> <p>Impacts of Disability Duration and Physical Activity Level on Wheelchair Propulsion Strategies in People with T12/L1 Spinal Cord Injury Authors: <i>Woojin Park, Seoul National University; Joeeun Ahn, Seoul National University</i></p>	<p>Lecture Individual Differences in Performance Track</p>
<p>S2: Human Factors in High-Risk Environments FLW Salon C Session Chair(s): <i>Olugbenga Gideon (University of Idaho, Idaho National Laboratory); Abigail Jei (Texas A&M University)</i></p> <p>Hunting From Elevated Tree Stands: Hunters' Safety Practices and Attitudes Regarding the Use of Personal Fall Arrest Systems Authors: <i>William Vigilante, Vigilante Forensic; Raymond Lim, Pierce College;</i></p> <p>The Impact of Time Pressure on Human Performance in Procedural Tasks in Oil and Gas Industries Authors: <i>Farzan Sasangohar, Texas A&M University; Yehee Park, Texas A&M University</i></p> <p>Beyond Compliance - Understanding Everyday Work Variability Through an Observational Study of Worker Interaction With Paper and Digital Procedures in a Petrochemical Facility Authors: <i>Atif Ashraf, Texas A&M University; Farzan Sasangohar, Texas A&M University; S Camille Peres, NRC</i></p>	<p>Lecture Safety Track</p>

<p>USE2: Voting and Workload Usability and System Evaluation FLW Salon D Session Chair: <i>Amrita Sidhu Maguire (Dell Technologies)</i></p> <p>Emergence of Paper-Digital Systems: A Usability Evaluation of Single-Page Versus Multipage Digital Instructions in a Ballot Mailing Task Authors: <i>Annlyle Diokno, Rice University; Nessa Kim, Rice University</i></p> <p>A Tension: Fortifying Usability while Safeguarding Voter Independence in Military Voting Solutions Authors: <i>Nessa Kim, Rice University; Annlyle Diokno, Rice University; Michael Byrne, Rice University; Pilip Kortum, Rice University</i></p> <p>Early-Stage Testing of Thermal Power Dispatch Simulator for Subjective Mental Workload and Evolution Time Authors: <i>Roger Lew, University of Idaho; Olugbenga Gideon, University of Idaho; Benjamin Barton, University of Idaho; Zeth Dubois, University of Idaho; Thomas Ulrich, Idaho National Laboratory</i></p>	Lecture Usability and System Evaluation Track
<p>ST4: Advances and Challenges in Vehicle Electrification FLW Salon G Session Chair: <i>Linda Boyle (New York University)</i></p> <p>Advances and Challenges in Vehicle Electrification Panelists: <i>Pnina Gershon, Massachusetts Institute of Technology; David Rempel, University of California, Berkeley; Justin Mason, University of Iowa; Gretchen Macht, University of Rhode Island; Raul Arbelaez, Insurance Institute for Highway Safety</i></p>	Discussion Panel Surface Transportation Track
<p>T2 With XR: Extended Reality for Training and Learning FLW Salon H Session Chair: <i>Martin Schüler (Swedish Defence University, Swedish Armed Forces)</i></p> <p>Multimodal Feedback to Improve Performance of Order Picker Truck Drivers Using a Virtual Reality Simulator Authors: <i>Md Shafiqul Islam, Virginia Polytechnic Institute and State University; Hsiang-Wen Hsing, Virginia Polytechnic Institute and State University; Sunwook Kim, Virginia Polytechnic Institute and State University; Nathan Lau, Virginia Polytechnic Institute and State University; Maury Nussbaum, Virginia Polytechnic Institute and State University; Sol Lim, Virginia Polytechnic Institute and State University</i></p> <p>The Design and Evaluation of an AR-based Adaptive Triage Training for Emergency Responders Authors: <i>Ronak Ranjitkumar Mohanty, University of Wisconsin - Madison; Ranjana Mehta, University of Wisconsin - Madison</i></p> <p>Unveiling Virtual Reality Overheads and Their Potential Impact on Flightcrew Training Authors: <i>Fiona Duruaku, University of Central Florida; Blake Nguyen, University of Central Florida; Nathan Sonnenfeld, University of Central Florida; Florian Jentsch, University of Central Florida</i></p>	Lecture Invited Symposium Training Track Extended Reality Track

<p>LBR1: Late-Breaking Results FLW Salon I Session Chair: <i>Farzan Sasangohar (Texas A&M University)</i></p> <p>A Comprehensive Methodological Framework for Anthropometric Head Shape Modeling Using Small Dataset Authors: <i>Leonardo Wei, Texas Tech University; Suman Chowdhury, Texas Tech University</i></p> <p>PFC and Motor Activation Under Stress During Fatiguing Exercise in Young Adults Authors: <i>Nourin Mohsin, University of Michigan; Dr. Oshin Tyagi, University of Michigan</i></p> <p>Predict and Model Worker Trust for Automated Vehicles in Manufacturing Plants Authors: <i>Mobina Amrollahi, Iowa State University; Rindirisia Wangira, Iowa State University; Dr. Jundi Liu, Iowa State University</i></p> <p>Enhancing Team Performance and Task Duration Through Cross-Training Authors: <i>Jenna Korentsides, Embry-Riddle Aeronautical University; Zander Miller, Embry-Riddle Aeronautical University; Dr. Joseph Keebler, Embry-Riddle Aeronautical University</i></p> <p>Trunk and Upper Arm Postures in Mature vs. Young Workers of the Logistic Industry. A Real-World Study Based on Inertial Wearable Sensors Authors: <i>Dr. Micaela Porta, University of Cagliari; Giulia Casu, University of Cagliari; Bruno Leban, University of Cagliari; Maury Nussbaum, Virginia Polytechnic Institute and State University; Massimiliano Pau, University of Cagliari</i></p> <p>Enhancing Elderly-Robot Interactions (ERI): A Review of 10 Years of the HRI Conference Authors: <i>Jiongyu Chen, University of Michigan; Carl Fan, University of Michigan; Hyesun Chung, University of Michigan; X. Jessie Yang, University of Michigan</i></p>	<p>Lecture Late Breaking Results</p>
<p>PP2: Multiple Resource Theory and Task Performance FLW Salon J Session Chair: <i>Colleen Patton (North Carolina State University); Md Mamunur Rashid (University of Central Florida, The Readability Consortium)</i></p> <p>The Multiple Resource Theory and Model. Some Misconceptions in Data Interpretations Author: <i>Christopher Wickens, Colorado State University</i></p> <p>Occipital Multiscale Entropy as a Generalized Marker of Differential Task Performance Authors: <i>L. Jack Rhodes, Ball Aerospace; Lorraine Borghetti, U.S. Air Force Research Laboratory; Megan Morris, U.S. Air Force Research Laboratory</i></p> <p>Strategic Attention Guidance: The Impact of Dual and Single Cues in Wide Field of View Searches Author: <i>Amelia Warden, Colorado State University</i></p>	<p>Lecture Perception and Performance Track</p>
<p>HC4: Patient Safety and Quality in Healthcare I Grand Ballroom Session Chairs: <i>Maryam Tabibzadeh (California State University, Northridge); Shababa Matin (Rice University)</i></p> <p>ACESO: An Optimized System for Collecting Granular Data on Patient Care Sequences and Infection Prevention Practices Authors: <i>Jaqueline Pereira Da Silva, University of Iowa Carver College of Medicine; Loreen Herwaldt, University of Iowa Carver College of Medicine</i></p> <p>Assessing GenAI's Intra-Agent Reliability in Coding Unstructured Human Factors Data within Patient Safety Reports: An Empirical Investigation Authors: <i>Douglas Wiegmann, University of Wisconsin - Madison; Arsalan Ahmad, University of Wisconsin - Madison; Felix Nguyen, University of Wisconsin - Madison; Scott Shappell, ERAU</i></p> <p>Evaluating Active Learning Strategies for Automated Classification of Patient Safety Event Reports in Hospitals Authors: <i>Shehnaz Islam, University of Toronto; Myrte de Alfred, University of Toronto; Dulaney Wilson, Medical University of South Carolina; Eldan Cohen, University of Toronto</i></p>	<p>Lecture Health Care Track</p>

<p>HART4: Co-Evolution in HART Flagstaff Session Chair: <i>Derek Koehl (University of Alabama at Huntsville)</i></p> <p>Design Principles for Accessibility and Transparency to Facilitate Co-Learning in Human-AI Teams Author: <i>Sylvain Bruni, Aptima, Inc.</i></p> <p>Mapping Human-Agent Co-Learning and Co-Adaptation: A Scoping Review Authors: <i>Xiaomei Wang, University of Louisville; Shruti Kumar, University of Louisville; Dr. Xiaoyu Chen, University at Buffalo</i></p> <p>“My Left is Not Your Left”: Approaches for Autonomously Eliciting and Representing Human Teammate’s Spatial Mental Models for Shared Mental Models in Human Autonomous Teams Authors: <i>Jayde King, U.S. Air Force Research Laboratory; Dr. Valay Shah, Leidos; Ian Dye, Leidos; Rachel Wong, Leidos</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>
--	---

3:00-8:00 p.m

<p>University Lab Posters McArthur Foyer</p> <p><i>Adaptive Cognitive Systems Laboratory at Iowa State University; Autonomy & Robotics for Collaborative Systems Lab; The University of Tennessee, Knoxville; Center for Ergonomics Labs at the University of Michigan; Center for Human, AI, and Robot Teaming (CHART) at Arizona State University; Design & Implementation Sciences Program, Health & Wellness Design Department, Indiana University School of Public Health Bloomington; Engineering for Democracy Institute, University of Rhode Island; GMU Human Factors & Applied Cognition Program; Human Factors & Applied Statistics Lab - University of Toronto; Human Factors and Ergonomics Program at the University of Wisconsin Madison; Human Factors Labs at Embry-Riddle Aeronautical University; Human Factors Research Facilities at California State University, Long Beach; Human Factors Safety Lab (HFSL), University of Minnesota; Human Optimization Modelling Lab (HOMLab), University of Waterloo; Human Systems Engineering Laboratories at Arizona State University; Humans and Technology Laboratory (HATLab); Michigan Tech; NeuroErgonomics Lab at University of Wisconsin Madison; Occupational Safety, Ergonomics and Injury Prevention Center at Auburn University; Purdue University; Rice University; Sawyer Laboratories, University of Central Florida; SHARE Lab, Texas Tech University; The Challenge Metacognition and Perception (ChaMP) Lab at The University of Alabama in Huntsville; The Cognitive Performance Lab at Oklahoma State University; University of Central Florida; University of Virginia; University of Washington; Virginia Polytechnic Institute and State University; Virtual and Augmented Reality Laboratory at North Carolina State University</i></p>	
--	--

4:15-5:15 p.m

<p>CS1: Social Media and Voting Systems FLW Salon A Session Chair: <i>Alec Gonzales (Clemson University)</i></p> <p>Two-Step Ballot Verification: Mitigating the Impact of the Hawthorne Effect on Vote Flipping Studies Authors: <i>Juan E. Gilbert, University of Florida; Ashley Hart, University of Florida; Jasmine McKenzie, University of Florida; Alaina Smith, University of Florida; Darian Jennings, University of Florida</i></p> <p>Which Source Matters More? The Influence of Sharer Versus Publisher on Trust in News on Social Media Authors: <i>Claire Gendron, Clemson University; Ayana Monroe, Cornell University; Errol Francis II, Clemson University; Dr. Emily Sidnam-Mauch, Clemson University; Susan McGregor, Columbia University; Dr. Kelly Caine, Clemson University</i></p>	<p>Lecture Computer Systems Track</p>
--	--

<p>GS1: The Good, the Bad and the Unknown: AI for the Assessment of Human Performance, Training, and Selection FLW Salon B Session Chairs: <i>Michael Lowe (Georgia Tech Research Institute); Theresa Kessler (Georgia Tech Research Institute)</i></p> <p>The Good, the Bad, and the Unknown: AI for the Assessment of Human Performance, Training and Selection Panelists: <i>Tracy Sanders, The MITRE Corporation; Mica Endsley, SA Technologies; Gabriella Hancock, California State University, Long Beach; Joseph Lyons, U.S. Air Force Research Laboratory; John Lee, University of Wisconsin - Madison; Clayton Hutto, Georgia Tech Research Institute</i></p>	<p>Discussion Panel General Sessions Track</p>
<p>CEDM3: Decision-Centered Design for Post-Implementation Analysis of Automation in the Petrochemical Industry ROOM: FLW Salon C</p> <p>Decision-Centered Design for Post-Implementation Analysis of Automation in The Petrochemical Industry Authors: <i>Michelle Wang, Applied Decision Science, LLC; Laura Militello, Applied Decision Science, LLC; Rachel Morris, Applied Decision Science, LLC; Vance Flosenzier, INVISTA</i></p>	<p>Industry/ Practitioner Case Study Cognitive Engineering & Decision Making Track</p>
<p>USE3: Community and Population Usability and System Evaluation FLW Salon D Session Chair: <i>Jerry Burpee (INTUITIVE Research & Technology Corp)</i></p> <p>Using a Community-Engaged Approach to Develop a Safe and Effective Teleoperation Workstation in Construction Authors: <i>Yiyang Fang, University of Southern California; Burcin Becerik-Gerber, University of Southern California; Gale Lucas, University of Southern California; Lucio Soibelman, University of Southern California; Patrick Borges Rodrigues, University of Southern California; Zihao Wang, University of Southern California; Shawn Roll, University of Southern California</i></p> <p>Utilizing Human-Centered Design To Improve Discovery, Analysis and Collaboration In Population Migration Research Authors: <i>Werner Born, Aptima, Inc.; Christina Blatsos, Aptima, Inc.</i></p> <p>Assessing Mobile Health Apps for Diabetes Management for Underserved Communities Authors: <i>Farzan Sasangohar, Texas A&M University; Abby Somich, Texas A&M University; Jesus Horacio Carrillo Leal, Texas A&M University</i></p>	<p>Lecture Usability and System Evaluation Track</p>
<p>ST5: Driver Attentional States and Situation Awareness—Part 1 FLW Salon G Session Chairs: <i>Patricia Tice (UCF; CREWS, LLC); Wei-Hsiang Lo (San Jose State University)</i></p> <p>Driver Situational Awareness Prediction During Takeover Transitions: A Multimodal Machine Learning Approach Authors: <i>Lesong Jia, University of Pittsburgh; Na Du, University of Pittsburgh</i></p> <p>Exploring the Relationship Between Drivers' Stationary Gaze Entropy and Situation Awareness in Level-3 Automation Author: <i>Wen Ding, University of Waterloo</i></p> <p>Improving Situation Awareness in Partially Automated Vehicles: The Effectiveness of Redesigned Visual Signals Authors: <i>Okkeun Lee, Stanford University; Rebecca Currano, Stanford University; Dave Miller, Tufts University; Seungbin Yim, Stanford University; David Sirkin, Stanford University</i></p>	<p>Lecture Surface Transportation Track</p>

<p>OE3: Tools and Analysis FLW Salon H Session Chairs: <i>Lori Basham (United States Navy); Joseph Parham (US Army)</i></p> <p>Preliminary Evaluation of a Smartphone-Based Markerless Motion Capture System for Joint Kinematics Measurement During Symmetric and Asymmetric Lifting Tasks Authors: <i>Mina Salehi Sedeh, Oregon State University; Jeong Ho Kim, Oregon State University</i></p> <p>Working Hands: A Dynamic Hand Anthropometry Survey of Manufacturing Population Authors: <i>Emily Seifert, University of Minnesota; Vanessa Segura Duque, University of Minnesota; Tse-Hsun Kuo, University of Minnesota; Kelsey Hitt, Toyota; Peeyush Kumar, Toyota; Dr. Linsey Griffin, University of Minnesota</i></p> <p>Video-Based Lifting Action Recognition Method Using Rank-Altered Kinematic Feature Pairs Authors: <i>SeHee Jung, North Carolina State University; Bingyi Su, North Carolina State University; Lu Lu, North Carolina State University; Liwei Qing, North Carolina State University; Xu Xu, North Carolina State University</i></p>	<p>Lecture Occupational Ergonomics Track</p>
<p>SS4: Becoming a Leader Within HFES FLW Salon I Session Chair(s): <i>Missie Smith; Debbie Boehm-Davis</i></p>	<p>Special Session</p>
<p>XR3: Virtual Reality and the Individual: Designing Better Virtual Environments FLW Salon J Session Chairs: <i>Fangyuan Cheng (NC State); Linfeng Wu (North Carolina State University)</i></p> <p>Smelling What You See in Virtual Reality: Impacts on Mood, Memory, and Anxiety Authors: <i>Steve Kass, University of West Florida</i></p> <p>Sex and Age Differences in Virtual Reality (VR) Sickness Susceptibility in Forklift Driving Simulation Authors: <i>Md Shafiqul Islam, Virginia Polytechnic Institute and State University; Sol Lim, Virginia Polytechnic Institute and State University</i></p> <p>Negative Emotions Post-Virtual Reality Usage: A Preliminary Exploratory Study Using Online Forums Authors: <i>Emily Fang, North Carolina State University; Anand Sivaramakrishnan, North Carolina State University; Karen Chen, North Carolina State University</i></p>	<p>Lecture Extended RealityTrack</p>
<p>HC5: Wandering Through Healthcare: What Patient Journeys Can Tell Us About Improving Patient Safety, Health and Well-Being Grand Ballroom Session Chairs: <i>Maha Khalid (Rice University); Pratima Saravanan (Houston Methodist Hospital)</i></p> <p>Negative Emotions Post-virtual Reality Usage: A Preliminary Exploratory Study Using Online Forumswandering Through Healthcare: What Patient Journeys Can Tell Us About Improving Patient Safety, Health and Well-Being Panelists: <i>Nicole Werner, Indiana University, Bloomington; Megan Salwei, Vanderbilt University Medical Center; Rupa Valdez, University of Virginia; Elizabeth Papautsky, University of Illinois Chicago; Natalie Benda, Columbia University; Shilo Anders, Vanderbilt University Medical Center; Hanna Barton, University of Wisconsin – Madison</i></p>	<p>Discussion Panel Health Care Track</p>
<p>HART5: Is It Time to Kill Fitts' List? Perspectives on Novel Frameworks for Human-Machine Teaming Across Industry, Academia and Government Flagstaff Session Chair: <i>Sylvain Bruni (Aptima, Inc.)</i></p> <p>Is It Time to Kill Fitts' List? Perspectives on Novel Frameworks for Human-Machine Teaming Across Industry, Academia, and Government Panelists: <i>Adam Fouse, Aptima, Inc.; Nancy Cooke, Arizona State University; Kelly Neville, The MITRE Corporation; Martijn IJtsma, The Ohio State University; Daniel Zelik, U.S. Air Force Research Laboratory</i></p>	<p>Discussion Panel Human AI Robot Teaming (AI) Track</p>

WEDNESDAY, SEPTEMBER 11	
All Day	
<p>University Lab Posters McArthur Foyer</p> <p><i>Adaptive Cognitive Systems Laboratory at Iowa State University; Autonomy & Robotics for Collaborative Systems Lab; The University of Tennessee, Knoxville; Center for Ergonomics Labs at the University of Michigan; Center for Human, AI, and Robot Teaming (CHART) at Arizona State University; Design & Implementation Sciences Program, Health & Wellness Design Department, Indiana University School of Public Health Bloomington; Engineering for Democracy Institute, University of Rhode Island; GMU Human Factors & Applied Cognition Program; Human Factors & Applied Statistics Lab - University of Toronto; Human Factors and Ergonomics Program at the University of Wisconsin Madison; Human Factors Labs at Embry-Riddle Aeronautical University; Human Factors Research Facilities at California State University, Long Beach; Human Factors Safety Lab (HFSL), University of Minnesota; Human Optimization Modelling Lab (HOMLab), University of Waterloo; Human Systems Engineering Laboratories at Arizona State University; Humans and Technology Laboratory (HATLab); Michigan Tech; NeuroErgonomics Lab at University of Wisconsin Madison; Occupational Safety, Ergonomics and Injury Prevention Center at Auburn University; Purdue University; Rice University; Sawyer Laboratories, University of Central Florida; SHARE Lab, Texas Tech University; The Challenge Metacognition and Perception (ChaMP) Lab at The University of Alabama in Huntsville; The Cognitive Performance Lab at Oklahoma State University; University of Central Florida; University of Virginia; University of Washington; Virginia Polytechnic Institute and State University; Virtual and Augmented Reality Laboratory at North Carolina State University</i></p>	<p>Industry/ Practitioner Case Study Lecture Aerospace Systems Track Usability and System Evaluation Track</p>
8:30-9:30 a.m.	
<p>AS3: Aerospace Systems With Usability and Systems Evaluation FLW Salon A Session Chair: <i>Katharine Woodruff (Collins Aerospace)</i></p> <p>Analyzing the Fleet Manager Interface User Experience with Qualitative Data Coding Authors: <i>Gregory Costedoat, San Jose State University; Gita Hodell, NASA Ames Research Center; Erik Larsen, ASRC Federal Data Solutions, LLC</i></p> <p>Developing Adaptive Information Presentation for Spaceflight Crews and Ground Support for Human Spaceflight Beyond Low Earth Orbit Authors: <i>Lacey Davis, Purdue University; Barrett Caldwell, Purdue University</i></p> <p>Applying Human Factors Analysis in Designing Accessible Lavatories on Single-Aisle Aircraft Authors: <i>Erin Maddix, The Boeing Company; Kylene Lawless, The Boeing Company; Carrie Lin, The Boeing Company</i></p>	<p>Industry/ Practitioner Case Study Lecture Aerospace Systems Track Usability and System Evaluation Track</p>
<p>CEDM4: Usability FLW Salon C Session Chair: <i>Sherry Chappell (Federal Aviation Administration (Retired))</i></p> <p>Leaving Money on the Table: As Diagnostic Aids Become More Useful, Operators Use Them Less Efficiently Authors: <i>Fernando Munoz Gomez Andrade, Oregon State University; Jason S. McCarley, Oregon State University; Christopher Wickens, Colorado State University; Megan Bartlett, University of Adelaide;</i></p> <p>Experts and Non-Experts Use Diagnostic Aids Inefficiently: A Reanalysis of Cao et al. (2023) Authors: <i>Megan Bartlett, The University of Adelaide; Jason McCarley, Oregon State University;</i></p> <p>Human Perception of Floor Plan Evacuatability: How Easy Is it to Evacuate? Author: <i>Stephen B. Gilbert, Iowa State University;</i></p>	<p>Lecture Cognitive Engineering & Decision Making Track</p>

<p>PD1: Product Design Technical Group Sponsored Panel on Methods for Voice UI Development FLW Salon D Session Chair: <i>Paul Ritchey (Consumer Reports)</i></p> <p>Product Design Technical Group Sponsored Panel on Methods for Voice UI Development Authors: <i>Kathryn Tippey, Philips; Crispin Reedy, Versay Solutions; Laura Fulton, Google; Adam Emfield, Self-employed; Ryan Biette, Google; Kelly Caine, Clemson University;</i></p>	<p>Discussion Panel Product Design Track</p>
<p>ST6: Driver Attentional States and Situation Awareness—Part 2 FLW Salon G Session Chair(s): <i>Joel Cooper (MEA Forensic); Jundi Liu (Iowa State University)</i></p> <p>Estimating Mode Awareness of Drivers Interacting With an Automated Vehicle Authors: <i>Hansol Rheem, University of Wisconsin - Madison; Joonbum Lee, University of Wisconsin - Madison; John D. Lee, University of Wisconsin - Madison; Joseph F. Szczerba, General Motors; Roy Mathieu, General Motors; Akilesh Rajavenkatanarayanan, General Motors;</i></p> <p>Supporting Driver Attention Towards Potential Hazards During Takeover: A Preliminary Result Authors: <i>X.Jessie Yang, University of Michigan; Jundi Liu, Iowa State University; Alicia Romo, AAA Foundation for Traffic Safety; William Horrey, AAA Foundation for Traffic Safety; Dawn Tilbury, University of Michigan; Lionel Robert, University of Michigan; Feng Zhou, University of Michigan, Dearborn; Lisa Molnar, University of Michigan Transportation Institute;</i></p> <p>Post-Trip Mind-Wandering Assessment: A Scale and Protocol for Evaluating Train Driver Focus Across Multiple Journey Phases Authors: <i>Joep von Berg, NS; Ellemieke van Doorn, NS</i></p>	<p>Industry/ Practitioner Case Study Lecture Surface Transportation Track</p>
<p>OE4: Exoskeleton Applications FLW Salon H Session Chair: <i>Arunkumar Pennathur (University of Texas at El Paso)</i></p> <p>Task Characteristics Impact Optimal Support Settings of Arm Support Exoskeletons Author: <i>Carisa Harris Adamson, University of California;</i></p> <p>Flexible Sensor-Based Whole-Body Biomechanics of Exoskeleton-Assisted Patient Handling Authors: <i>Yinong Chen, Texas A&M University; Liying Zheng, National Institute for Occupational Safety and Health; Wei Yin, Texas A&M University; Xudong Zhang, Texas A&M University;</i></p> <p>Biomechanical Assessment of Exoskeleton Intervention for Injured and Recovering Workers: A Simulation Study of Bending Tasks Authors: <i>Darlington Egeonu, University of Michigan, Dearborn; Bochen Jia, University of Michigan, Dearborn; Jesudara Omidokun, University of Michigan, Dearborn; Liang Yang, South China University of Technology</i></p>	<p>Lecture Occupational Ergonomics Track</p>

<p>ME1: Macroergonomics FLW Salon I Session Chair: <i>Hanna J Barton (University of Wisconsin - Madison)</i></p> <p>Leveraging Systemic Contributors and Adaptations for Implementation Design: The IMPActS Workshop Authors: <i>Christine Jefferies, The Ohio State University; Laura Maguire, The Ohio State University; Amanda Girth, The Ohio State University; Michael F. Rayo, The Ohio State University</i></p> <p>Gauging the Ergonomics Temperature: Knowledge and Awareness Among the US Population and the Disparity Among Demographics Author: <i>Jia-Hua Lin, SHARP, Washing Department of Labor and Industries</i></p> <p>Macroergonomics in Practice: A Needs Assessment of the Health Improvement Through Employee Control (HITEC) Project Authors: <i>Michelle Robertson, University of Connecticut; James Hughes, University of Connecticut; Theresa Parker, University of Connecticut</i></p> <p>Sleep, Wellness and Mood of Personnel Standing Watch on US Navy Information Warfare Watchfloors Authors: <i>Nita Shattuck, Naval Postgraduate School; Panagiotis Matsangas, Naval Postgraduate School; Christopher McClernon, Naval Postgraduate School</i></p>	<p>Lecture Macroergonomics Track</p>
<p>PP3: Tactile Displays FLW Salon J Session Chair: <i>Ziho Kang (University of Oklahoma)</i></p> <p>Enhancing Peri-personal Navigation: A Haptic Feedback Design Approach for Vertical and Horizontal Target Search Authors: <i>Mahdis Tajdari, Virginia Polytechnic Institute and State University; Jason Forsyth, James Madison University; Sol Lim, Virginia Polytechnic Institute and State University</i></p> <p>Comparing Intensity and Location-Based Tactile Change Detection Performance Author: <i>Lauren Horde, University of Virginia</i></p> <p>How to Capture Attention Using Frames of Reference with Vibrotactile Information Author: <i>Ashley Warren, Rice University</i></p>	<p>Lecture Perception and Performance Track</p>
<p>HC6: mHealth and Telehealth Grand Ballroom Session Chairs: <i>Victor Paquet (University at Buffalo); Karim Zahed (American University of Beirut)</i></p> <p>Remote Patient Diagnosis in Virtual Reality: Perceptions from Patients and Physicians Authors: <i>Mustapha Unubi Momoh, University of Waterloo; Catherine Burns, University of Waterloo; Ville Mäkelä, University of Waterloo</i></p> <p>Simplifying a Medication Adherence App for Persons with Mild Cognitive Impairment Authors: <i>Timothy M. Hale, University of Illinois Urbana Champaign; Teresa Star Warren, University of Illinois Urbana Champaign; Eliza Baby, University of Illinois Urbana Champaign; Renato Ferreira Leitão Azevedo, University of Illinois Urbana Champaign; James Shim, University of Illinois Urbana Champaign; Kathleen C. Insel, University of Arizona; Jeannie K. Lee, University of Arizona; Wendy A. Rogers, University of Illinois Urbana Champaign; Raksha A. Mudar, University of Illinois Urbana Champaign</i></p> <p>Exploring Technological Challenges in Telehealth for Allied Healthcare Practices Authors: <i>Faiza Tazi, University of Denver; Josiah Dykstra, Designer Security; Prashanth Rajivan, University of Washington; Sanchari Das, University of Denver</i></p>	<p>Lecture Health Care Track</p>

<p>HART6: Teamwork in HART Flagstaff Session Chair: <i>Shiwen Zhou (Arizona State University)</i></p> <p>Compromise in Human-Robot Collaboration for Threat Assessment Authors: <i>Gerald Matthews, George Mason University; Ryon Cumings, George Mason University; James Casey, George Mason University; April Rose Panganiban, U.S. Air Force Research Laboratory; Antonio Chella, University of Palermo; Arianna Pipitone, University of Palermo; Jinchao Lin, University of Central Florida; Mustapha Mouloua, University of Central Florida</i></p> <p>The Influence of Risk-Taking Tendency Pairing on Human-Agent Cooperative Risk Decision-Making Author: <i>Jie Xu, Zhejiang University</i></p> <p>Unlocking Insights: An Interface for Understanding Dialogue Data Authors: <i>Morgan Klaeser, University of Wisconsin – Madison; Vianney Renata, University of Wisconsin – Madison; John Lee, University of Wisconsin – Madison</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>
--	---

9:45-10:45 a.m.

<p>C11: Children’s Issues FLW Salon A Session Chair: <i>Claudia MontAlvao (Pontifical Catholic University of Rio de Janeiro)</i></p> <p>Caregiver Adherence to Warnings Regarding Safe Shopping Cart Use Author: <i>Kuba Glazek, Applied Safety and Ergonomics, A Rimkus Company</i></p> <p>Laboratory Methods for a Pilot Study of the U.S. YouthShape Survey of Child and Youth Anthropometry and Physical Capability Authors: <i>Monica L.H. Jones, University of Michigan; Sheila M. Ebert, University of Michigan; Carl Miller, University of Michigan; Byoung-Keon D. Park, University of Michigan; Hayoung Jung, University of Michigan; Aaron Wood, University of Michigan; Leah E. Robinson, University of Michigan; Matthew P. Reed, University of Michigan</i></p> <p>Exploring the Application of Upper Limb Exoskeletons in Pediatric Rehabilitation: A Literature Review Authors: <i>Pranav Meda, San Jose State University; Lin Jiang, San Jose State University; Yue Luo, San Jose State University</i></p>	<p>Lecture Children's Issues Track</p>
---	---

<p>S3: Nuclear FLW Salon C Session Chair(s): <i>S Camille Peres (U.S. Nuclear Regulatory Commission)</i></p> <p>The Accessible Control Room: Opportunities for Advanced Reactors Author: <i>Ronald Boring, Idaho National Laboratory</i></p> <p>A Tale of Two Simulators—A Comparative Human-In-The-Loop Nuclear Power Plant Operations Study on Thermal Power Dispatch for Hydrogen Production Author: <i>Thomas Ulrich, Idaho National Laboratory</i></p> <p>The Challenge of Data Integration—Digital Twin Certification to Support Remote Operations Authors: <i>Dylan Jurski, Idaho National Laboratory; Thomas Ulrich, Idaho National Laboratory</i></p>	<p>Lecture Safety Track</p>
--	----------------------------------

<p>PD2: Methods in Usability Evaluation FLW Salon D Session Chairs: <i>Trey Roady (ChaiOne)</i></p> <p>User Expectations for Comfort, Discomfort and Wearability of Wrist-Worn Devices Authors: <i>Missie Smith, Meta; Saman Madinei, Meta; Jordan Livingston, Meta; Anna Yu, Meta</i></p> <p>Feasibility of a Remote Contextual Diary Study on Mobile App Adoption Authors: <i>Himalaya Patel, Indiana University; Teresa Thuemling, Indiana University; Zayn Boustani, Indiana University; Aaron Ganci, Indiana University-Purdue University Indianapolis; Richard Holden, Indiana University; Nicole Werner, Indiana University</i></p> <p>Design Thinking: Experimental Evidence of Ideation Strategies that Support Team Innovation Authors: <i>Lisa Casper, Michigan Technological University; Molly Helminen, University of Michigan; Elizabeth Veinott, Michigan Technological University</i></p>	<p>Lecture Product Design Track</p>
<p>ST7: Decision-Making in Autonomous Driving Systems FLW Salon G Session Chair(s): <i>Mengyao Li (Georgia Institute of Technology); Myounghoon Jeon (Virginia Polytechnic Institute and State University)</i></p> <p>Understanding Reliance Decisions in Automated Vehicles Using Random Forest Analysis Authors: <i>Xingjian Ma, University of Wisconsin – Madison; Xizi Xiao, University of Wisconsin – Madison; Ranjana Mehta, University of Wisconsin – Madison; Anthony McDonald, University of Wisconsin – Madison</i></p> <p>Correlation Between Traffic Locus of Control and Advanced Driver Assistance System (ADAS) Use Authors: <i>Linzhuo Wei, University of Toronto; Chelsea A. DeGuzman, University of Toronto; Birsen Donmez, University of Toronto</i></p> <p>The Effects of System Confidence and Reliability on Drivers’ Decision-Making in Conditionally Automated Vehicles Authors: <i>Myeongkyu Lee, Purdue University; Brandon Pitts, Purdue University</i></p>	<p>Lecture Surface Transportation Track</p>
<p>AC1 with XR: Augmented Cognition and XR in High-Stakes Environments FLW Salon H Session Chair: <i>Allison Bayro (Arizona State University, University of Illinois Chicago); Jung Hyup Kim (University of Missouri)</i></p> <p>Cognitive Augmentation for Military Applications: Insights from the NATO NIAG SG-278 Study Relevant to the Human Factors Community Author: <i>Sylvain Bruni, Aptima, Inc.</i></p> <p>Assessment of a Cognitive Workload-Adaptive Augmented Reality Training Aid for Laparoscopic Surgery Authors: <i>Holden Duffie, Clemson University; Jackie Cha, Clemson University</i></p> <p>Investigating 24- to 48-hour Forecast of Offshore Worker Alertness and Vigilance using Multimodal Sources: A Proactive Fatigue Monitoring Paradigm Authors: <i>David Nartey, Texas A&M University; Ranjana Mehta, University of Wisconsin – Madison</i></p>	<p>Lecture Augmented Cognition Track Extended Reality Track</p>
<p>Demonstration Session 1 FLW Salon I</p> <p>A Visual Tour Guide to Increase Users’ Aesthetic Valuation of Images Authors: <i>Hong Nguyen, The New School; Benjamin van Buren, The New School</i></p> <p>Computational Modelling and Simulation for Verification and Validation of Concept of Operations Authors: <i>Abhinay Paladugu, The Ohio State University; Martijn Ijtsma, The Ohio State University</i></p>	<p>Demonstration Human AI Robot Teaming (AI) Track Cognitive Engineering & Decision Making Track</p>

<p>C1: Advancing Risk Communication and Team Performance FLW Salon J Session Chairs: <i>Christopher Mayhorn (North Carolina State University)</i></p> <p>Collective Anomaly Detection: A Method for Using Content-Free Communications to Predict Performance Authors: <i>Jayci Landfair, Arizona State University; Matthew Peel, Arizona State University; Polemnia Amazeen, Arizona State University; Nancy Cooke, Arizona State University</i></p> <p>Assessing the Impact of Combining Tropical Cyclone Hazard and Forecast Path Displays on User Comprehension and Decision-Making Authors: <i>Barbara Millet, University of Miami; Qinyu Ding, WeRide; Alberto Cairo, University of Miami; Scotney Evans, University of Miami; Sharanya Majumdar, University of Miami; Brian McNoldy, University of Miami</i></p> <p>Risk-Based Visualization of Hurricane Forecasts Author: <i>Michael Schober, The New School</i></p>	<p>Lecture Communications Track</p>
<p>HC7: Practitioner Potpourri in Healthcare I—Improving Worker and Patient Processes Grand Ballroom Session Chair: <i>Changwon Son (Texas Tech University)</i></p> <p>Utilizing Human Factors to Improve Surgeons' Data Access Authors: <i>Chen Zhao, Intuitive Surgical; Bridget O'Hare, Intuitive Surgical</i></p> <p>Muscle Fatigue Experienced by Healthcare Workers in Hemodialysis Centers: A Survey Authors: <i>Shijing Liu, Fresenius Medical Care; Ke Liu, Fresenius Medical Care; Michelle Bayly, Michelle Bayly</i></p> <p>Using Human Centered Design to Decrease the Risk of Toileting in Hospitals for Patients and Clinicians Authors: <i>Kate O'Neill, State University of New York at Binghamton; Dr. Stephanie Tulk Jesso, State University of New York at Binghamton; Anthony Andreano, State University of New York at Binghamton; Keelin Davie, State University of New York at Binghamton; Molly Doran, State University of New York at Binghamton</i></p>	<p>Industry/ Practitioner Case Study Health Care Track</p>
<p>HART7: HART Trust 3 (HART Applications) Flagstaff Session Chair: <i>Shiwen Zhou (Arizona State University)</i></p> <p>Human Trust and Cognitive Effort Associated with Operating a Powered Exoskeleton with Varying Levels of Autonomy Authors: <i>Vishwajeet Ransing, Clemson University; Benjamin Beiter, Virginia Polytechnic Institute and State University; Ananya Nagabhushana Rao, Clemson University; Alexander Leonessa, Virginia Polytechnic Institute and State University; Divya Srinivasan, Clemson University</i></p> <p>Effects of Automation Error Bias on Dependence and Trust in Remotely Operated Air Vehicle Operations Author: <i>Austin Jackson, Old Dominion University</i></p> <p>A Case Study for Using AI Tools to Develop Training Materials for High Consequence Industries Authors: <i>Blake Nguyen, University of Central Florida; Nathan Sonnenfeld, University of Central Florida; Fiona Duruaku, University of Central Florida; Alex Alonso, University of Central Florida; Florian Jentsch, University of Central Florida</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>

11:15 a.m.-12:15 p.m.

AS4: Pilot Performance and Fatigue

FLW Salon A

Session Chairs: *Arjun Rao (The Boeing Company); Katharine Sabo (Clemson University)*

Measuring Pilot Fatigue with ElectroOculoGraphy

Authors: *Gwilym Couch, Texas A&M University; Thomas Ferris, Texas A&M University; Güliz Tokadli, Collins Aerospace; Peggy Wu, RTX Technologies Research Center; Katharine Woodruff, Collins Aerospace*

Selective Sensorimotor Impairments With Mental Fatigue Associated With G-Transitions During and After Spaceflight

Authors: *John Hayes, Texas A&M University; Ranjana Mehta, University of Wisconsin - Madison; Blake Fairchild, Texas A&M University; Kieran Nichols, University of Wisconsin - Madison; Jeevan Jayasuriya, University of Wisconsin - Madison*

Use of a Head-Worn Display for Approach and Landing in a Transport Category Aircraft: Does Monocular Viewing Impact Pilot Performance and Workload?

Authors: *David Newton, Federal Aviation Administration; Eric Greenlee, Texas Tech University; Theodore Mofle, Cherokee Nation 3S; Farzaneh Shahini, Cherokee Nation 3S; Rebecca DiDomenica, Cherokee Nation 3S; Inchul Choi, Cherokee Nation 3S*

Lecture
Aerospace
Systems Track

SS7: The National Academies Board on Human-Systems Integration (BOHSI) Panel: Creating an Equitable Future of Work in an Increasingly AI-Ubiquitous Workplace

FLW Salon B

Session Chairs: *Frederick Oswald (Rice University); Emanuel Robinson (National Academies)*

The National Academies Board on Human-Systems Integration (BOHSI) Panel: Creating an Equitable Future of Work in an Increasingly AI-Ubiquitous Workplace

Panelists: *Linda Ng Boyle, New York University; Carolyn Sommerich, The Ohio State University; John D. Lee, University of Wisconsin - Madison; Tara Behrend, Michigan State University*

Special Session

CEDM5: Can Human Factors Research and Development Keep Pace With Artificial Intelligence for Readiness?

FLW Salon C

Session Chair: *James Pharmed (Naval Air Warfare Center Training Systems Division)*

Can Human Factors Research & Development Keep Pace with Artificial Intelligence for Readiness?

Panelists: *Beth DePass, RTX BBN Technologies; Emilie Roth, Roth Cognitive Engineering; David Macannuco, Lockheed Martin; Kevin Oden, Lockheed Martin; Allen Rowe, U.S. Air Force Research Laboratory; Mark Draper, U.S. Air Force Research Laboratory*

Special Session
Cognitive
Engineering &
Decision Making
Track

USE4: Scientific Behavior, Cognitive Task and Agile Usability and System Evaluation

FLW Salon D

Session Chair: *Jerry Burpee (INTUITIVE Research & Technology Corp)*

Design, Development, and Validation of a Military Orientated Re-configurable Cognitive Task Battery

Authors: *David John Thompson, Defence Science and Technology Laboratory; Graham Sabine, Defence Science and Technology Laboratory*

Individual Differences in Fatigued Performance

Authors: *Megan Morris, U.S. Air Force Research Laboratory; Garrett Swan, Aptima, Inc; Bella Veksler, TiER1 Performance Solutions*

Live or Let Die: MILSTD 1472 Type Usability Checklists in an Agile Development World

Authors: *Richard Steinberg, Northrop Grumman Corporation; Esther Raub, Northrop Grumman Corporation*

Lecture
Usability
and System
Evaluation Track

<p>EDU3 With XR: Exploring XR in Education From an HF Perspective FLW Salon G Session Chair: <i>Ziho Kang (University of Oklahoma); Benjamin van Buren (The New School)</i></p> <p>Development of a Survey Instrument to Measure Educators' Preparedness for Creating Extended Reality Learning Modules Authors: <i>Jiwon Kim, Iowa State University; Michael Dorneich, Iowa State University; Eliot Winer, Iowa State University; Kexin Wang, Iowa State University</i></p> <p>Barriers Towards the Implementation of Extended Reality (XR) Technologies to Support Education and Training in Workforce Development Programs Author: <i>Bhargav Upadhyay, Clemson University</i></p> <p>Learning Scale in Virtual Reality: Experiences and Perception of Immersive Technology at a Public Middle School Authors: <i>Karen Chen, North Carolina State University; Tyler Harper-Gampp, North Carolina State University; Linfeng Wu, North Carolina State University; Cesar Delgado, North Carolina State University; Matthew Peterson, North Carolina State University</i></p>	<p>Lecture Education Track Extended Reality Track</p>
<p>OE5: Tool Applications FLW Salon H Session Chair: <i>Melissa Afterman (UCSF)</i></p> <p>ErgoReality: A Virtual Reality Simulations Software for Ergonomic Analysis of Workstation Design Authors: <i>Christopher Morse, Amazon; Mohammad Iman Mokhlespour Esfahani, Amazon; Suresh Krishnan, Amazon</i></p> <p>Effectiveness and Usability of a Trunk Posture Feedback System: An Exploratory, Longitudinal Field Study Authors: <i>Maury Nussbaum, Virginia Polytechnic Institute and State University; Jiwon Choi, Virginia Polytechnic Institute and State University; Sunwook Kim, Virginia Polytechnic Institute and State University; Sol Lim, Virginia Polytechnic Institute and State University; Ryan Porto, General Motors</i></p> <p>A Laboratory Evaluation of a Cooling System for a Firefighter Coat Authors: <i>Ryan Bellacov, University of Cincinnati; Rosalyn Davis, University of Cincinnati; Kermit Davis, University of Cincinnati; Lorena Altman, University of Cincinnati; Ashley Kubley, University of Cincinnati; Amit Bhattacharya, University of Cincinnati; Mark Schultz, University of Cincinnati; Myoung Kim, University of Cincinnati; Marepalli Rao, University of Cincinnati</i></p>	<p>Lecture Occupational Ergonomics Track</p>
<p>SD1: Insights in Practice: Success Stories of Applied Human Factors and Ergonomics FLW Salon I Session Chair: <i>Glenn Lematta (The MITRE Corporation)</i></p> <p>Insights in Practice: Success Stories of Applied Human Factors and Ergonomics Panelists: <i>Russel Branaghan, Research Collective; Sylvain Bruni, Aptima, Inc.; Stephen Dorton, The MITRE Corporation; Eric Holder, U.S. Army DEVCOM; Emily Patterson, The Ohio State University</i></p>	<p>Discussion Panel System Development Track</p>
<p>PP4: Visual Information Display and Augmented Cognition FLW Salon J Session Chairs: <i>Maureen August (General Motors); Ashley Warren (Rice University)</i></p> <p>Effects of Glass Transmittance, Font Brightness and Font Size on Text Legibility in LCD Home Appliance Interface Authors: <i>Minjoon Sohn, Seoul National University; San Hong, Seoul National University; Namhee Kim, Seoul National University; Sungwoo Jeong, Seoul National University; Woojin Park, Seoul National University</i></p> <p>Vection and Performance During Attention-Demanding Tasks in Virtual Reality Authors: <i>Onoise Kio, York University; Robert Allison, York University</i></p> <p>Efficient Highlighting of Visual Targets in Complex Natural Scenes Authors: <i>Steffen Werner, University of Idaho; Zeth duBois, University of Idaho; Mary Hazard, University of Idaho; Nicolas LaMana, University of Idaho</i></p>	<p>Lecture Perception and Performance Track</p>

<p>HC8: AI in Healthcare Grand Ballroom Session Chairs: <i>Michael Boyce (U.S. Department of Veterans Affairs); Tosin Akintunde (University of Toronto)</i></p> <p>AI Scribes and the Future of Healthcare: A New Paradigm for Informed Consent Authors: <i>Iman Basha, University of Waterloo; Dr. Puneet Seth, McMaster University; Dr. Catherine Burns, University of Waterloo</i></p> <p>Can We Predict Shoe-Floor Friction by Analyzing Amazon Reviews With ChatGPT? Authors: <i>Gerard Aristizábal Pla, University of Pittsburgh</i></p> <p>The Effect of Healthcare Chatbots' Information Presentation Styles on User Acceptance in a Knowledge Seeking Task Authors: <i>Samuel Koscelny, Clemson University; David Neyens, Clemson University</i></p>	<p>Lecture Health Care Track</p>
<p>HART8: Putting the HART in AI Flagstaff Session Chairs: <i>Xiaoyun Yin (Arizona State University)</i></p> <p>Exploring the Effects of Machine Learning Models of Varying Transparency on Performance Outcomes Author: <i>Krista Harris, DCS Corp.</i></p> <p>Assessing AI Social Aptitude Using Crowd Sourced Cognitive Labels Authors: <i>Md Fazle Elahi, Purdue University; Jiachen Jiang, Purdue University; Joshua Domeyer, Toyota Collaborative Safety Research Center; Renran Tian, North Carolina State University</i></p> <p>The Pop-Out Effect of Rarer Occurring Stimuli Shapes the Effectiveness of AI Explainability Authors: <i>Pawinee Pithayarungsarit, George Mason University; Linda Onnasch, Technische Universität Berlin; Tobias Rieger, Technische Universität Berlin; Eileen Roesler, George Mason University</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>
<p>1:30-2:30 p.m.</p>	
<p>ID2: Individual Differences in Sustained Attention, Situation Awareness and Expertise FLW Salon A Session Chairs: <i>Mustafa Demir (Texas A&M University)</i></p> <p>How ADHD Self-Report Scale Scores Predict Vigilance Task Performance Authors: <i>Yazmin Diaz, University of Central Florida; Peter Hancock, University of Central Florida</i></p> <p>Can Proficiency in Chess Predict Situation Awareness in a Novel Task? Authors: <i>Rajan Maraju, Embry-Riddle Aeronautical University; Haroon Jamanzi, Embry-Riddle Aeronautical University; Mohammed Viqer, Embry-Riddle Aeronautical University; Dr. Andrew R. Dattel, Embry-Riddle Aeronautical University</i></p> <p>Quantitative Analysis of Eye-gaze Metrics in Differentiating Surgical Expertise Author: <i>Nathan Lau, Virginia Polytechnic Institute and State University</i></p>	<p>Special Session UX Day Individual Differences in Performance Track</p>
<p>SS8: President's Forum FLW Salon B</p> <p>President's Forum Authors: <i>Susan Kotowski, University of Cincinnati</i></p>	<p>Special Session</p>
<p>S4: Human Performance Implications of Remote Operations in High-Risk Industries Lincoln West Session Chairs: <i>S. Camille Peres (U.S. Nuclear Regulatory Commission); Niav Hughes Green (U.S. Nuclear Regulatory Commission)</i></p> <p>Human Performance Implications of Remote Operations in High-Risk Industries Panelists: <i>Robin Murphy, Texas A&M University; Steven Mallam, Memorial University of Newfoundland; Stephanie Morrow, U.S. Nuclear Regulatory Commission; Kritina Holden, Leidos; Claire Blackett, Risk Pilot</i></p>	<p>Discussion Panel Safety</p>

<p>USE5: Human Readiness Level, Computational Model and SGD Conversations Usability and System Evaluation FLW Salon D Session Chair: <i>Jerry Burpee (INTUITIVE Research & Technology Corp)</i></p> <p>Employing a Computational Model to Reveal Stimulus-Driven Influences in Interfaces Authors: <i>Jeremiah Still, Old Dominion University; Mary Still, Old Dominion University</i></p> <p>Enhancing Engagement and Interaction in Augmentative and Alternative Communication (AAC): A Comparative Study on the Impact of Front-Facing Partner Display in SGD mediated Conversations Authors: <i>Manohar Golloru, University at Buffalo; Jeff Higginbotham, University at Buffalo; Lora Cavuoto, University at Buffalo; Pamela Mathy, University at Buffalo</i></p> <p>Enhancing Human-Robot Collaboration: Applying the Human Readiness Level Scale to Design Human-Centric Cobots Authors: <i>Hisham Ghunaim, The Boeing Company; Derek Goetz, The Boeing Company</i></p>	<p>Lecture Usability and System Evaluation Track</p>
<p>ST8: Driver Behavior FLW Salon G Session Chairs: <i>John Lenneman (Toyota Motor North America); Abhraneil Dam (Virginia Polytechnic Institute and State University)</i></p> <p>Brake Response Time and the Effects of Parked and Incurring Vehicles on Driver Behavior Authors: <i>Pamela D'Addario, MEA Forensic Engineers & Scientists; Kurt Ising, MEA Forensic Engineers & Scientists; Dr. Gunter Siegmund, MEA Forensic Engineers & Scientists</i></p> <p>Driving Change to Electric Vehicles: A Comprehensive Study of Charging Behaviors and User Classification Authors: <i>Jaehoo Bae, Seoul National University; Myung Hwan Yun, Seoul National University</i></p> <p>Predictive Models of Brake Reaction & Steering of Police Officers in Critical Driving Situations Authors: <i>Farzaneh Shahini, Cherokee Nation 3-S; Chihab Nadri, Texas A&M University; Maryam Zahabi, Texas A&M University</i></p>	<p>Lecture Surface Transportation Track</p>
<p>OE6: Filling the Gap: Translate Research/Science From the Lab to the Field FLW Salon H Session Chair: <i>Thomas Rowell (Thomas Rowell Consulting, LLC)</i></p> <p>Filling The Gap: Translate Research/Science From The Lab To The Field Panelists: <i>Mark Benden, Texas A&M University; Sheree Gibson, Ergonomics Applications; Julie Gilpin-McMinn, Spirit AeroSystems; Farzan Sasangohar, Texas A&M University</i></p>	<p>Discussion Panel Occupational Ergonomics Track</p>
<p>CYB2 With A: Cyber, Privacy and Aging FLW Salon I Session Chairs: <i>Prashanth Rajivan (University of Washington)</i></p> <p>The Missing Engineering Discipline in Cybersecurity: Human Factors Engineering Authors: <i>Calvin Nobles, University of Maryland Global Campus; Nikki Robinson, Capitol Technology University</i></p> <p>Aging Safely Online: Unpacking Privacy & Security of Online Dating for Older Adults Author: <i>Naheem Noah, University of Denver</i></p> <p>Usage of an AI-Based Password Tool: Impacts of Security Fatigue, Age, and Individual Differences Authors: <i>Gerald Matthews, George Mason University; Giuseppe Ateniese, George Mason University; Daniel Barbará, George Mason University; Shawn Thayer, George Mason University; Nicholas Leskovec, George Mason University</i></p>	<p>Lecture Aging Track Cybersecurity Track</p>

<p>HPM2: Human Performance Modeling with Artificial Intelligence FLW Salon J Session Chair: <i>Ji-Eun Kim (University of Washington)</i></p> <p>Analyzing Worker Videos for Quantifying Motion Amounts through Computer Vision Authors: <i>Hari Iyer, Arizona State University; Neel Macwan, Arizona State University; Shenghan Guo, Arizona State University; Heejin Jeong, Arizona State University</i></p> <p>Unraveling Team Dynamics: Decomposing Multilayer Networks for Insights into Joint Performance Author: <i>Michael Tolston, U.S. Air Force Research Laboratory;</i></p> <p>Unveiling the Mechanisms of Diagnostic Aid Use: Cognitive Modeling Reveals Suboptimal Strategies Authors: <i>Fernando Munoz Gomez Andrade, Oregon State University; Jason S. McCarley, Oregon State University; Megan Bartlett, University of Adelaide</i></p>	<p>Lecture Human Performance Modeling Track</p>
<p>HC9: Healthcare Potpourri Grand Ballroom Session Chairs: <i>K Raghav Bhat (Arizona State University); Adam Werner (Design Science Group, LLC)</i></p> <p>Stakeholders' Perspectives on the Adoption of Robotic-Assisted Surgery: Considerations of Human-Robot Interactions, the Built Environment, and Training Authors: <i>Patrick Fuller, Clemson University; Jackie Cha, Clemson University</i></p> <p>Primary Care Screening Task Ownership: Team Coordination and Organizational Readiness for Implementation Authors: <i>Reid Parks, University of Wisconsin – Madison; Madeline Moureau, Medical College of Wisconsin; Joanna Balza, Medical College of Wisconsin; Dr. Kara Gavin, Medical College of Wisconsin; Kathryn E. Flynn, Medical College of Wisconsin; Dr. Heidi Brown, Southern California Permanente Medical Group; Dr. Joan Neuner, Froedtert Health; Edmond Ramly, Indiana University, Bloomington</i></p> <p>Shiftwork and Burnout Among Trauma Surgeons: A Preliminary Analysis of Trauma Surgeons' Fatigue and Stress Related to Overnight Shifts Authors: <i>Joseph Kim, Mayo Clinic; Hamid Norasi, Mayo Clinic; Sergio Navarro, Mayo Clinic; Myung Park, Mayo Clinic; Susan Hallbeck, Mayo Clinic</i></p>	<p>Lecture Health Care Track</p>
<p>HART9: Using Artificial Intelligence in Human-AI-Robot Teaming Flagstaff Session Chair: <i>Eileen Roesler (George Mason University)</i></p> <p>Automating the Identification of Team-Based Leadership and Teamwork Characteristics Using LLMs Authors: <i>Les DeBusk-Lane, Gallup; Maxim van Klinken, Gallup</i></p> <p>Comparing Human to Analytic Performance on Detecting and Characterizing Manipulated Media Authors: <i>Andrew Naber, Army Research Institute for the Behavioral and Social Sciences; Laura Cassani, Aptima, Inc.; Peter Bautista, Aptima, Inc.; James Cook, Aptima, Inc.; Lauren Fortier, Aptima, Inc.; Tatiana Toumbeva, Aptima, Inc.</i></p> <p>Classify Mental Stress Level with Privacy-preserving Machine Learning Authors: <i>Bingyi Su, North Carolina State University; Liwei Qing, North Carolina State University; Lu Lu, North Carolina State University; Sehee Jung, North Carolina State University; Xiaolei Fang, North Carolina State University; Xu Xu, North Carolina State University</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>
<p>3:00-4:00 p.m.</p>	
<p>AS5: Breaking Barriers: A Spotlight on Young and Diverse Voices in Aviation Human Factors FLW Salon A Session Chair: <i>Beth Blickensderfer (Embry-Riddle Aeronautical University)</i></p> <p>Breaking Barriers: A Spotlight on Young and Diverse Voices in Aviation Human Factors Panelists: <i>Bryan Gamelin, Honeywell Aerospace; Jayde King, U.S. Air Force Research Laboratory; Vanesa Miksa, The Boeing Company; Sabrina Woods, National Transportation Safety Board</i></p>	<p>Discussion Panel Aerospace Systems Track</p>

<p>LBR2: Late-Breaking 2 FLW Salon B <i>Session Chair: Mustafa Demir (Texas A&M University)</i></p> <p>A Multidimensional Accident Analysis Framework Based on Hazard Triangle and Large Language Models <i>Authors: Dr. Souvik Das, Purdue University; Sinjana Choudhuri, Indian Institute of Technology Kharagpur; Dr. Gaurav Nanda, Purdue University;</i></p> <p>The Underuse of Medical Interpretation Services: A Human Factors Analysis of Why They Are Not Used Enough and How Their Usage Can Be Increased <i>Authors: Soyun Oh, University of Toronto; Myrte de Alfred, University of Toronto; Dhruv Nayyar, Unity Health;</i></p> <p>Unraveling Impactful Contributors to Safety-Critical Commuting Events <i>Authors: Dr. Charles Calderwood, Virginia Tech; Matthew C. Camden, Virginia Tech; Dr. J. Erin Mabry, Virginia Tech; Jessica Gass, Virginia Tech; Jolee A. Sloss, Virginia Tech; Lucas Kerns, Virginia Tech; Fiyinfunjah Dosumu, Virginia Tech; Brittany L. Cowan, Virginia Tech; Tarah Crowder, Virginia Tech; Yena Cho, Virginia Tech; Lorena Murro, Virginia Tech; Dr. Tanya Mitropoulos, Virginia Tech;</i></p> <p>Vigilance Decrement Persists Following Mental Breaks in a Signal Detection Task <i>Authors: Tetsuya Sato, Old Dominion University; Fernando Munoz Gomez Andrade, Oregon State University; Kayla Hankey, Old Dominion University; Dr. Yusuke Yamani, Old Dominion University; Jason McCarley, Oregon State University;</i></p> <p>Sailors' Adaptation to Night Work with Fixed and Rotating Duty Times - First Evidence From a Sea Trial <i>Authors: Dr. Stefan Röttger, Naval Institute of Maritime Medicine; Dr. Johanna Abendroth, Naval Institute of Maritime Medicine; Theresa Kohn, Naval Institute of Maritime Medicine; Thomas Jacobsen, Helmut-Schmidt-University; Dr. Panagiotis Matsangas, Naval Postgraduate School; Nita Shattuck, Naval Postgraduate School;</i></p> <p>Developing a Driver Monitoring System Driver Experience (DMSDX) Scale Using Insights from Developmental Psychology <i>Authors: Dr. Dustin Souders, Clemson University; Dr. Shubham Agrawal, Clemson University</i></p>	<p>Late Breaking Results</p>
<p>CEDM6: Resilience FLW Salon C <i>Session Chair: Martijn IJtsma (The Ohio State University); Abhinay Paladugu (The Ohio State University)</i></p> <p>Large Language Models for Proactive Learning in Healthcare: A Comparative Study of Traditional Incident Reporting and Resilience Engineering Approaches <i>Authors: Dixizi Liu, Clemson University; Sudeep Hegde, Clemson University; Carl Ehrett, Clemson University</i></p> <p>Assessment of Electric Grid Transmission System Simulator for Human Factors Research <i>Authors: Ruixuan Li, Idaho National Laboratory; Timothy McJunkin, Idaho National Laboratory; Katya Le Blanc, Idaho National Laboratory</i></p> <p>Validating Measures of Team Reorganization and Interdependency in Response to Uncertainty in an Air Battle Management Task <i>Authors: David Grimm, Georgia Institute of Technology; Jamie Gorman, Arizona State University; Gregory Funkem, U.S. Air Force Research Laboratory; Michael Tolston, U.S. Air Force Research Laboratory</i></p>	<p>Lecture Cognitive Engineering & Decision Making Track</p>
<p>PD3: Beyond the Classroom: Unconventional UX Research Strategies That Drive Real-World Impact FLW Salon D <i>Session Chair: Rosemarie Figueroa Jacinto (Rimkus, belongIN)</i></p> <p>Beyond the Classroom: Unconventional UX Research Strategies that Drive Real World Impact <i>Panelists: Christy Harper, End to End User Research; Angie Avera, Peloton Interactive; Melissa Meingast, Hewlett Packard Enterprise; Maria Natalia Russi-Vigoya, IBM; Kyrsten Novak, Amazon</i></p>	<p>Discussion Panel Product Design Track</p>

<p>SF1: Early-Career Insights in Human Factors Engineering Across Academia and Industry FLW Salon G Session Chair: <i>Adam Werner (Design Science Group, LLC)</i></p> <p>Early Career Insights in Human Factors Engineering Across Academia and Industry Panelists: <i>Madison Laskowski, Design Science Group, LLC; Qian Zhang, College of Charleston; Adam Lary, Garmin; David Illingworth, California State University, Long Beach; Zachary Guyton, Georgia Tech Research Institute; Michael Boyce, U.S. Department of Veterans Affairs; Sheila Velagapudi, Modular Medical</i></p>	<p>Discussion Panel Student Forum Track</p>
<p>OE7: Manual Material Handling FLW Salon H Session Chair: <i>Monica Jones (University of Michigan)</i></p> <p>Data-Driven Classification of Manual Material Handling Tasks through Markerless Motion Capture Using Recurrent Neural Networks Authors: <i>Aanuoluwapo Ojelade, University at Buffalo; Sunwook Kim, Virginia Polytechnic Institute and State University; Mohammad Sadra Rajabi, Virginia Polytechnic Institute and State University; Maury A. Nussbaum, Virginia Polytechnic Institute and State University</i></p> <p>Predicting External Hand Forces During Overhead Work: An Approach Using EMG and Random Forest Regression Authors: <i>Mohamad Behjati Ashtiani, Virginia Polytechnic Institute and State University; Mohammadreza Freidouny, Virginia Polytechnic Institute and State University; Aanuoluwapo Ojelade, University at Buffalo; Sunwook Kim, Virginia Polytechnic Institute and State University; Maury Nussbaum, Virginia Polytechnic Institute and State University</i></p> <p>Effect of Grip Location and Object Mass on Upper Body Muscle Activity While Manipulating a Table Segments Authors: <i>Jacob Banks, Baxter International; Heather Kooiker, Baxter International; Neal Wiggermann, Baxter International</i></p>	<p>Lecture Occupational Ergonomics Track</p>
<p>Demonstration Session 2 FLW Salon I</p> <p>Deployable Training for Treating Combat Injuries Authors: <i>Christen Sushereba, Unveil, LLC; Laura Militello, Applied Decision Science, LLC</i></p> <p>NAUTICAL: Accelerating Instructional System Design With Generative AI Author: <i>Sylvain Bruni, Aptima, Inc.</i></p>	<p>Demo Training Track</p>
<p>PP5: How to Study Vigilance: Methodological Issues in the Sustained Attention Research FLW Salon J Session Chairs: <i>Patricia DeLucia (Rice University)</i></p> <p>How to Study Vigilance: Methodological Issues in the Sustained Attention Research Authors: <i>Jing Chen, Rice University; Eric Greenlee, Texas Tech University; William Helton, George Mason University; Jason McCarley, Oregon State University; Patricia DeLucia, Rice University</i></p>	<p>Invited Symposium Perception and Performance Track</p>
<p>HC10: Assessing Clinician Experience: Contributions From Human Factors Grand Ballroom Session Chairs: <i>Hanna J Barton (University of Wisconsin - Madison)</i> Moderators: <i>Jennifer Herout (U.S. Department of Veterans Affairs)</i></p> <p>Assessing Clinician Experience: Contributions from Human Factors Panelists: <i>Emilie Roth, Roth Cognitive Engineering; Shawna Perry, University of Florida Jacksonville; Emily Patterson, The Ohio State University; Kelly Neville, The MITRE Corporation; Kyle Maddox, U.S. Department of Veterans Affairs</i></p>	<p>Discussion Panel Health Care Track</p>

<p>HART10: Ethics Considerations in Human-Machine Interaction Flagstaff Session Chairs: <i>August Capiola (U.S. Air Force Research Laboratory)</i></p> <p>Ethics Considerations in Human-Machine Interaction Panelists: <i>Gene Alarcon, U.S. Air Force Research Laboratory; Veljko Dubljevic, North Carolina State University; Nathan McNeese, Clemson University; Elizabeth Phillips, George Mason University</i></p>	Discussion Panel Human AI Robot Teaming (AI) Track
4:15-5:15 p.m.	
<p>Posters With Fellows McArthur Ballroom</p> <p><i>Thomas Armstrong; Deborah Boehm-Davis; Michael Byrne; Barrett Caldwell; Nancy Cooke; Kermit Davis; Pat DeLucia; Valerie Gawron; Paul Green; Peter Hancock; Karen Jacobs; Philip Kortum; William Marras; Anne McLaughlin; Ranjana Mehta; Kathleen Mosier; Robert Sugarman, et al*; Kim Vu; Chris Wickens; Yan Xiao</i></p>	Poster
5:30-6:30 p.m.	
<p>Poster Session 1 McArthur Ballroom</p> <p>1. Artificial Intelligence on the Digital Flight Deck: A Continuum with Parallel Trajectories Authors: <i>Sam Holley, Embry-Riddle Aeronautical University; Mark Miller, Embry-Riddle Aeronautical University; Leila Halawi, Embry-Riddle Aeronautical University</i></p> <p>2. Autonomous Spacecraft Motion Plan Characteristics Influence Perceived Path Appropriateness Authors: <i>Hannah Larson, University of Michigan; Leia Stirling, University of Michigan</i></p> <p>3. Evaluating Head-Mounted Visual-Haptic Displays for Recovery from Unusual Flight Attitudes under Normal and Visually-Degraded Conditions Author: <i>Sam Chin, Massachusetts Institute of Technology</i></p> <p>4. How Teaching Air Traffic Control College Students About Stress Improves Stress Management Authors: <i>Andrew Dattel, Embry-Riddle Aeronautical University; Michael McCormick, Embry-Riddle Aeronautical University; Rajan Maroju, Embry-Riddle Aeronautical University; Haroon Jamanzi, Embry-Riddle Aeronautical University; Jae Beum Lee, Embry-Riddle Aeronautical University; Maaliyah Bowden, Embry-Riddle Aeronautical University; Mohammed Viqer, Embry-Riddle Aeronautical University; Alexander Belluccio, Embry-Riddle Aeronautical University; Dongguang Yu, Embry-Riddle Aeronautical University; Jamie Barrett, Federal Aviation Administration</i></p> <p>5. Impact of Eye Fixation Classification Algorithm Thresholds on Our Ability to Accurately Interpret the Visual Scanning Patterns: A Case Study in Tower Air Traffic Control Authors: <i>Ricardo Palma Fraga, University of Oklahoma; Ziho Kang, University of Oklahoma</i></p> <p>6. Impacts on Control Panel Interaction Speed for Pilots of Heavy Aircraft Authors: <i>Braden Westby, Iowa State University; Richard Stone, Iowa State University; Joseph Kim, Iowa State University; Colten Fales, Iowa State University; Jeremy Cermin, Iowa State University; Marcus Szamlewski, Iowa State University; Varun Srikrishnan, Iowa State University</i></p> <p>7. Navigating Simulator Sickness: The Effect of Flight Maneuvers in Fixed-Base Flight Simulators Authors: <i>Claudia Martin Calderon, University of Waterloo; Junhan Bae, Department of National Defence; Shi Cao, University of Waterloo; Michael Barnett-Cowan, University of Waterloo</i></p> <p>8. Process-Based Trust Mediates the Effect of Mental Models on Performance in a Remote Aircraft Control Task Only Before Simulator Exposure Author: <i>Michael Politowicz, Old Dominion University</i></p> <p>9. System-Wide Error Attribution in Multi-Vehicle Operations: Theoretical Explanation, Implications, and Applications Authors: <i>Elliot Biltekoff, NASA Langley Research Center; Michael Politowicz, NASA Langley Research Center; Eric Chancey, NASA Langley Research Center</i></p> <p>10. The Effect of Complex Operations on Team Cognition Processes in Human Spaceflight Author: <i>Andres Kaosaar, University of Central Florida</i></p>	Poster Aerospace Systems Track Cognitive Engineering & Decision Making Track Computer Systems Track Forensics Professional Track Health Care Track Human Performance Modeling Track Individual Differences in Performance Track Perception and Performance Track Product Design Track Surface Transportation Track Usability and System Evaluation Track Extended Reality Track

<p>11. An Operational Assessment of Team Cognition for Long Duration Space Missions Authors: <i>Stephen Fiore, University of Central Florida; Andres Käosaar, University of Central Florida; Travis Wiltshire, Tilburg University</i></p> <p>12. The Transferability of Pilots' Video Gaming Experience to the Skills and Situation Awareness of Operating UAVs Authors: <i>Dr. Andrew R. Dattel, Embry-Riddle Aeronautical University; Rochelle Potdar, Embry-Riddle Aeronautical University</i></p> <p>13. An Analysis of the Effect of Risk Perception and Self-Confidence on Human Reliance on Visual Aids Authors: <i>Ethan Rabb, Purdue University; Neera Jain, Purdue University</i></p> <p>14. Challenges and Coping Strategies of Health Practitioners During the COVID-19 Pandemic: A Comparison of Methods and Findings Authors: <i>Negin Nazari, Clemson University; Sudeep Hegde, Clemson University; Monica Schaeubinger, Children's Hospital of Philadelphia; Ethan Larsen, Children's Hospital of Philadelphia</i></p> <p>15. Determining What's Next: A Visual Tool for Analyzing Human-Automation Coordination Authors: <i>Abigail Post, The Ohio State University; Renske Nijveldt, The Ohio State University; David Woods, The Ohio State University; Martijn IJtsma, The Ohio State University</i></p> <p>16. Dynamic Area of Interest (AOI) Matching in Simulated Environments Via a Direct Coordinate Transform Approach Authors: <i>Michael Williamson Tabango, Purdue University; Sibibalan Jeevanandam, Purdue University; Neera Jain, Purdue University</i></p> <p>17. From Categorical to Dimensional: A Multifaceted Approach to Emotions Author: <i>Areen Alsaïd, University of Michigan, Dearborn</i></p> <p>18. Impact of Upper-Body Motor Function on Verbal Free Recall Author: <i>Samantha Smith, Michigan Technological University</i></p> <p>19. Investigating the Impact of User Interface Designs on Expectations About Large Language Models' Capabilities Authors: <i>Felix Gröner, Arizona State University; Erin K. Chiou, Arizona State University</i></p> <p>20. Public Health Decision-Making Using Uncertainty Displays Authors: <i>Tselot Tessema, University of Toronto; Holland Vasquez, University of Toronto; Laura Rosella, University of Toronto; Birsen Donmez, University of Toronto</i></p> <p>21. Resilience Aware Development-Exploration: An Exercise for Improving Attention to Work Systems Resilience During Technology Design Authors: <i>Emily Barrett, The MITRE Corporation; Kelly Neville, The MITRE Corporation; Theresa Fersch, The MITRE Corporation; Erika De Los Santos, George Mason University; Glenn Lematta, The MITRE Corporation; Tracy Sanders, The MITRE Corporation; Stephen Dorton, The MITRE Corporation; Andrew Langone, The MITRE Corporation; Emily Patterson, The Ohio State University</i></p> <p>22. The Tough Sell of Resilience Engineering Authors: <i>Stephen Dorton, The MITRE Corporation</i></p> <p>23. All You Need is Data: A Multimodal Approach in Understanding Driver's Behavior Authors: <i>Kelvin Kwakye, North Carolina A&T State University; Armstrong Aboah, North Dakota State University; Younho Seong, North Carolina A&T State University; Sun Yi, North Carolina A&T State University</i></p> <p>24. Enhancing Military Tank Training: Virtual Reality Exploration of Team Dynamics, Cognitive Load, and Physiological Responses Authors: <i>Allison Bayro, Arizona State University; Limary Rodriguez, Arizona State University; Cayden Matherly, Arizona State University; Heejin Jeong, Arizona State University</i></p> <p>25. Evaluating the Slip Resistance of Various Walking Surface Contaminants Authors: <i>Levi Dixon, Applied Cognitive Sciences; Hunter DeBusk, Mississippi State University; Ethan Fenley, Applied Cognitive Sciences</i></p> <p>26. Forensic Footwear: A Retrospective of the Development of the MANTIS Shoe Scanning System Authors: <i>Braden Westby, Iowa State University</i></p> <p>27. A Formative Usability Study Evaluating A Decision Aid for Caregivers of Incapacitated Patients Authors: <i>Shababa Matin, Rice University; Thaddeus Puzio, McGovern Medical School at the University</i></p>	<p>Poster</p> <p>Aerospace Systems Track</p> <p>Cognitive Engineering & Decision Making Track</p> <p>Computer Systems Track</p> <p>Forensics Professional Track</p> <p>Health Care Track</p> <p>Human Performance Modeling Track</p> <p>Individual Differences in Performance Track</p> <p>Perception and Performance Track</p> <p>Product Design Track</p> <p>Surface Transportation Track</p> <p>Usability and System Evaluation Track</p> <p>Extended Reality Track</p>
---	--

<p>28. A Novel Checklist Approach to Reduce Time Under Anesthesia in Neurosurgery <i>Authors: Asfand Khan, Embry-Riddle Aeronautical University; Aimen Farooq, AdventHealth; Wissam Elfallal, AdventHealth; Ravi Gandhi, AdventHealth; Federico Vinas, AdventHealth; Albert Boquet, Embry-Riddle Aeronautical University</i></p> <p>29. A Qualitative Evaluation of the Usability and Accessibility of Home COVID-19 Tests Among People with Disabilities <i>Authors: Emily Gleaton, Georgia Institute of Technology; Megan Lucente, Georgia Institute of Technology; Sarah Farmer, Georgia Institute of Technology</i></p> <p>30. A Systems Engineering Approach to Understanding the Care Path of Hip Fracture Patients <i>Authors: Katherina Jurewicz, Oklahoma State University; Ricky Cook, Oklahoma State University; Ainsley Kyle, Oklahoma State University</i></p> <p>31. AR-based Upper Extremity Rehabilitation with Multimodal Feedback for Patients with Stroke and Parkinson’s Disease: A Scoping Review <i>Author: Md Shafiqul Islam, Virginia Polytechnic Institute and State University</i></p> <p>32. Assessment of the Ergonomic Exposures for Home Healthcare Workers in the United Kingdom <i>Authors: Amour Cornelius Dondi, University of Cincinnati; Ryan Bellacov, University of Cincinnati; Dr. Michael Fray, Loughborough University; Dr. Davis Kermit, University of Cincinnati</i></p> <p>33. Fall Prevention Signage Design Strategy: An Exploration <i>Author: Erin Morrissey, Main Line Health</i></p> <p>34. Identifying Embedded Biases in Healthcare Systems <i>Authors: Myrte de Alfred, University of Toronto; Rupa Valdez, University of Virginia</i></p> <p>35. Impacts on Assisted Living Communities During the COVID-19 Pandemic: A Longitudinal Study <i>Authors: Aisha Khan, Indiana University, Bloomington; Reid Parks, Indiana University, Bloomington; Susan Nordman-Oliveira, University of Wisconsin – Madison; Edmond Ramly, Indiana University, Bloomington</i></p> <p>36. Haptic Technology for Hearing Loss: A Systematic Review of Technical Feasibility, Usability and User Experience <i>Authors: Gabrielle Orzech, San Jose State University; Yue Luo, San Jose State University; Gaojian Huang, San Jose State University</i></p> <p>37. Midwives Usage of EMR’s to Support Maternal Care <i>Author: Michelle Rogers, Drexel University</i></p> <p>38. Modeling Sensor-Based Vigilance Decrement in the Healthcare Environment <i>Authors: Ji-Eun Kim, University of Washington; Jiaxin Li, University of Washington; Veronika Kettel, University of Washington; Elizabeth A. Higgins, University of Washington; Chaowei Xiao, University of Washington; Younghoon Kwon, University of Washington; Michael Meno, University of Washington; Victoria Roach, University of Washington</i></p> <p>39. Navigating Point-of-Care Ultrasound Education: A Review of Simulation Approaches <i>Authors: Ryan Sullivan, USF Health Morsani College of Medicine; Shannon Bailey, University of South Florida; Michael Simoes, University of South Florida</i></p> <p>40. NEAT: Nurse Effort Assessment Tool – Human Factors Considerations in Designing for Appropriate Staffing <i>Authors: Michael Boyce, Yale Center for Healthcare Simulation; Leigh Evans, Yale University; Mark Sevilla, Yale New Haven Health</i></p> <p>41. Not Right Now: Factors Affecting Interruption Decisions in a Healthcare Paradigm <i>Authors: Matthew Pacailler, Old Dominion University; Rachel Ball, Old Dominion University; Ballie Hirst, Old Dominion University; Mark Scerbo, Old Dominion University</i></p> <p>42. Sleep Management: The Use of Continuous Physiological Monitoring to Support Patient Self-Care <i>Authors: Cassandra McCormack, Purdue University; Barrett Caldwell, Purdue University</i></p> <p>43. Systematic Root Cause Analysis of Retained Foreign Objects: A Descriptive Study of 1,371 Sentinel Events from 2010 to 2020 Using Data Analytics <i>Author(s): Maryam Tabibzadeh, California State University, Northridge; Nitya Kumari, California State University, Northridge</i></p> <p>44. Systems Safety: Identifying Facilitators, Barriers and Failure Modes on a Postnatal Unit <i>Author(s): Tosin Akintunde, University of Toronto; Nicole Hicks, University of Toronto; Kristen Tully, University of North Carolina - Chapel Hill; Myrte de Alfred, University of Toronto</i></p>	<p>Poster</p> <p>Aerospace Systems Track</p> <p>Cognitive Engineering & Decision Making Track</p> <p>Computer Systems Track</p> <p>Forensics Professional Track</p> <p>Health Care Track</p> <p>Human Performance Modeling Track</p> <p>Individual Differences in Performance Track</p> <p>Perception and Performance Track</p> <p>Product Design Track</p> <p>Surface Transportation Track</p> <p>Usability and System Evaluation Track</p> <p>Extended Reality Track</p>
--	--

<p>45. The Design and Features of Text-Based Conversational Agents in Healthcare Applications: A Literature Review Authors: <i>Sara Sadralashrafi, Clemson University; David Neyens, Clemson University; Yi-Ching Lee, George Mason University</i></p>	<p>Poster Aerospace Systems Track</p>
<p>46. The Impact of Soundscapes on Healthcare Teams: A Literature Review Authors: <i>Kenton Hummel, University of Nebraska Medical Center; Bethany Lowndes, University of Nebraska Medical Center; Erica Ryherd, University of Nebraska Lincoln; Victoria Kennel, University of Nebraska Medical Center</i></p>	<p>Cognitive Engineering & Decision Making Track Computer Systems Track</p>
<p>47. The Status of Human Factors Research in Cancer Care: A Look at the Landscape Author: <i>Sabina M. Patel, Embry-Riddle Aeronautical University</i></p>	<p>Forensics Professional Track Health Care Track</p>
<p>48. To Fly or Not to Fly: A Statistical Analysis of Risks Associated With Helicopter Air Medical Evacuation Authors: <i>Katherina Jurewicz, Oklahoma State University; Matthew Nare, Oklahoma State University; Aayush Bhattarai, Oklahoma State University; Nicoletta Fala, Oklahoma State University</i></p>	<p>Human Performance Modeling Track Individual Differences in Performance Track</p>
<p>49. Towards User-Centered Explainable Displays for Complex Machine Learning Models in Healthcare: A Case Study of Heart Disease Prediction Author: <i>Joseph Nuamah, Oklahoma State University</i></p>	<p>Perception and Performance Track</p>
<p>50. Understanding Patient Characteristics Influencing Adherence for Remote Monitoring: Interviews with Providers Authors: <i>Dave Garrett Mitchell, Texas A&M University; Farzan Sasangohar, Texas A&M University</i></p>	<p>Product Design Track</p>
<p>51. Usability and Acceptance of Check-In Kiosks: An Illustration of Nimble Evaluation Methods and Recommendations for Health Kiosk Deployments Author: <i>Yi Rong Tan, Parkview Health; Hung-Yeh Lin, Parkview Health; Rachel Pfafman, Parkview Health; Victor P. Cornet, Parkview Health</i></p>	<p>Surface Transportation Track Usability and System Evaluation Track</p>
<p>52. Usability of Remote Patient Monitoring and Telemonitoring Systems: A Literature Review Authors: <i>Karim Zahed, American University of Beirut; Changwon Son, Texas Tech University; Armina Mim, Texas Tech University; Omar Itani, American University of Beirut</i></p>	<p>Extended Reality Track</p>
<p>53. Using the SEIPS Model to Assess a Maternal Hemorrhage Risk Alert Tool Authors: <i>Kaitlyn L. Hale-Lopez, University of Illinois Urbana-Champaign; William F. Bond, University of Illinois College of Medicine; Jonathan Handler, Clinical Intelligence Lab of OSF Healthcare; Neelam Verma, University of Illinois; Shruti Chakravarthy, University of Illinois; Rebecca Ebert-Allen, University of Illinois College of Medicine; Abigail R. Wooldridge, University of Illinois Urbana-Champaign</i></p>	
<p>54. Virtual Reality Learning: Design Concepts of a Virtual Reality Piano to Address Injuries and Increase Learning Performance Author: <i>Ziho Kang, University of Oklahoma</i></p>	
<p>55. A Cluster Analysis of Heart Rate Variability in an Alarm Monitoring Task to Quantify Vigilance Performance Author: <i>Katherina Jurewicz, Oklahoma State University; Jimmy Uba, Oklahoma State University</i></p>	
<p>56. Distributed Space Team Coordination: An Agent-based Modeling and Simulation Approach Authors: <i>Xiaoyun Yin, Arizona State University; Elmira Zahmat Doost, Arizona State University; Jamie Gorman, Arizona State University</i></p>	
<p>57. Exploring the Influence of Automation and Feedback on Multitasking Performance Authors: <i>Dr. Ji-Eun Kim, University of Washington; Zishu Ling, University of Washington; Wenxin Xiao, University of Washington</i></p>	
<p>58. Human Performance Modeling Architecture with HC-130J Mission Application Author(s): <i>Stephanie Slimp, Air Force Institute of Technology; Michael Miller, Air Force Institute of Technology</i></p>	
<p>59. Identification of Cognitive Control Modes via Physiological Detection Author(s): <i>Jason Ralph, Naval Undersea Warfare Center; Shannon Flynn, Naval Undersea Warfare Center</i></p>	
<p>60. Modeling Microtasks for Digital Nuclear Power Plant Control Room Interfaces Author(s): <i>Ekim Koca, University of Virginia</i></p>	
<p>61. Post-Power Law of Practice: Comparing Newer Models of Human Learning Author(s): <i>Charles Weeks, Rice University; Michael Byrne, Rice University</i></p>	

<p>62. Speed-Accuracy Tradeoff (SAT) and Speed-Confidence Tradeoff (SCT) in a Human-Robot Interaction (HRI) Task <i>Yili Liu, University of Michigan; Yuanchen Wang, University of Michigan; X. Jessie Yang, University of Michigan</i></p> <p>63. Towards a Modular Team Dynamics Measurement framework using Hybrid Cognitive Task Analysis, Perturbation Training, and Dynamic Metrics of Team Cognition <i>Authors: Kamala Avancha, Arizona State University; Parkhi Malhotra, Arizona State University; Jamie Gorman, Arizona State University; Vipin Verma, Arizona State University; Robert Likamwa, Arizona State University; Kevin Gary, Arizona State University; Randall Spain, U.S. Army DEVCOM Soldier Center, Simulation and Training Technology Center; Benjamin Goldberg, U.S. Army DEVCOM Soldier Center, Simulation and Training Technology Center; Scotty Craig, Arizona State University</i></p> <p>65. AI in VR for Blind and Low-Vision Individuals: Literature Review <i>Authors: Tianhang Liu, Arizona State University; Pooyan Fazli, Arizona State University; Heejin Jeong, Arizona State University</i></p> <p>66. Associations Among Social Contexts of Hybrid Work and Stress States: Implications for Supporting Worker Performance <i>Authors: Madeline Parga, University of Southern California; Shawn Roll, University of Southern California; Burcin Becerik-Gerber, University of Southern California; Gale Lucas, University of Southern California; Shrikanth Narayanan, University of Southern California</i></p> <p>67. Examining Vigilance Through Social Facilitation and Extraversion <i>Authors: Jazmyn Donovan, University of Central Florida</i></p> <p>68. Impacts of Bad Digital Habits on Life Satisfaction in College Students and Early Career Professionals <i>Authors: Yesh Chala, Arizona State University; Heather Lum, Arizona State University</i></p> <p>69. Individual Differences in Stride Length During Powdered Exoskeleton Walking Due to Changes in Quasi-Stiffness Control Parameter <i>Authors: Savannah Maples, Auburn University; Yadrianna Acosta-Sojo, Auburn University</i></p> <p>70. Using Neural Data to Classify Workload: A Refresh of the SynWin Task Battery <i>Authors: Olivia Fox Cotton, Aptima, Inc; Lisa Lucia, Aptima, Inc.; Justin Morgan, Aptima, Inc.; Jordan Coker, Aptima, Inc.; Matthew Ewer, Aptima, Inc.; Joseph Geeseman, U.S. Navy</i></p> <p>71. Adaptive Clothing for People with Spinal Cord Injury in Activities of Daily Living, Occupational Management, and Sports <i>Authors: Yujin Hong, Seoul National University; Woojin Cho, Seoul National University; Junseok Park, Seoul National University; Myunghwan Yun, Seoul National University</i></p> <p>72. Designing Map Features for Color Vision Deficiency (CVD) Usability <i>Authors: Thao Pham, Pacific Science & Engineering Group; Alexander Boone, Pacific Science & Engineering Group; Dirk Beer, Pacific Science & Engineering Group</i></p> <p>73. Empowering Teachers as Users in Human-Centered Design <i>Authors: Rezwana Islam, Arizona State University; Heather Lum, Arizona State University</i></p> <p>74. Out of The Box, Onto the Screen: Insights from an OBE Study of the Xbox Adaptive Controller <i>Author(s): Carmen Van Ommen, Embry-Riddle Aeronautical University; Corey Walton, Embry-Riddle Aeronautical University; Amanda Dhanpaul, Embry-Riddle Aeronautical University; Isabella Curtorillo, Embry-Riddle Aeronautical University; Barbara Chaparro, Embry-Riddle Aeronautical University</i></p> <p>75. User-Centered Social Interaction Design in Intelligent Personal Assistants and Social Robots <i>Author(s): Fernando Montalvo, Jacobs Space Operations Group; Phuoc Thai, University of Central Florida; Promise Stephens, Jacobs Space Operations Group; Jordan Sasser, University of Central Florida; Sean Hinkle, University of Central Florida</i></p> <p>76. A Review of Human Factors Research on People Who Crochet <i>Author(s): Nell Jaskowiak, Iowa State University</i></p> <p>77. Discovering Eye Movement Metrics to Identify Optimal Gaze Velocity Threshold Values for the I-VT Eye Fixation Detection Algorithm <i>Author(s): Ricardo Palma Fraga, University of Oklahoma; Ziho Kang, University of Oklahoma</i></p> <p>78. Emotion and Text: How to Deliver Human Emotion through the Text Features <i>Author(s): Dasol Han, University of Michigan, Dearborn; Wonji Doh, University of Michigan, Dearborn; Sang-Hwan Kim, University of Michigan, Dearborn</i></p>	<p>Poster</p> <p>Aerospace Systems Track</p> <p>Cognitive Engineering & Decision Making Track</p> <p>Computer Systems Track</p> <p>Forensics Professional Track</p> <p>Health Care Track</p> <p>Human Performance Modeling Track</p> <p>Individual Differences in Performance Track</p> <p>Perception and Performance Track</p> <p>Product Design Track</p> <p>Surface Transportation Track</p> <p>Usability and System Evaluation Track</p> <p>Extended Reality Track</p>
--	--

<p>79. Investigating Stochastic Resonance in Tactile Discrimination Authors: <i>Jayashri Prakash, Rice University; Patricia R. DeLucia, Rice University</i></p> <p>80. Performance Differences for Switching Sensory Modalities in Degraded Audio Environments Authors: <i>Denis Kozhokar, Meta; Missie Smith, Meta; Brian Simpson, Meta; Monica Sewell, Meta; Krista Taylor, Meta</i></p> <p>81. Predicting Scam Detection Performance on Social Media using Eye Tracking Authors: <i>Tomas Lapnas, George Mason University; Matthew Peterson, George Mason University; Hemant Purohit, George Mason University; Géraldine Walther, George Mason University; Yoosun Chung, George Mason University; Anuridhi Gupta, George Mason University; Hannah Choi, George Mason University</i></p> <p>82. Replicating Visuo-Motor Remapping in the Laparoscopic Environment Authors: <i>Bradford Howe, Texas Tech University; Martina I. Klein, Texas Tech University; Zachary Turkowski, Texas Tech University; Ameer Yadak, Texas Tech University; Mesoma Iloanusi, Texas Tech University; Alexander G. Brito, Texas Tech University; Chris Monico, Texas Tech University</i></p> <p>83. The Effects of Voice Features in Voice Assistant Systems on Human Perceived Emotion Authors: <i>Nishanth Prabhu Kurunthachalam, University of Michigan, Dearborn; Sang-Hwan Kim, University of Michigan, Dearborn</i></p> <p>84. The Impact of Eccentricity within Visual Vigilance Displays Authors: <i>Chidera Azubike, Texas Tech University; Emily Maw, Georgia Tech Research Institute; Eric Greenlee, Texas Tech University</i></p> <p>85. Verbal Tasks for Multiple Modalities: A Literature Review Authors: <i>Krista Taylor, Meta; Denis Kozhokar, Meta; Missie Smith, Meta</i></p> <p>86. Visual Fatigue While Reading on a Computer Screen at Different Contrast Levels: An Eye-tracking Study Authors: <i>Dylan Hewitt, North Carolina State University; Yingchen He, North Carolina State University</i></p> <p>87. When Should Feedback Be Given for Autonomous System Updates? An Examination Across Two Update Patterns Authors: <i>Youyu Sheng, The Hong Kong University of Science and Technology (Guangzhou); Dengbo He, The Hong Kong University of Science and Technology (Guangzhou); Jingyu Zhang, Chinese Academy of Sciences</i></p> <p>88. Behavioral Tendencies of Blind and Vision-Impaired Travelers that are Prone to Falls from the Edges of Station Platforms Author: <i>Hisato Ohno, Railway Technical Research Institute</i></p> <p>89. Development of a Systems Safety Program for a Large Healthcare System Author: <i>Helen Fuller, Veterans Health Administration</i></p> <p>90. Does Prosocial Automation Increase Driver's Well-Being? Author(s): <i>Shashank Mehrotra, Honda Research Institute USA; Kumar Akash, Honda Research Institute USA; Teruhisa Misu, Honda Research Institute USA; John Lee, University of Wisconsin - Madison; SooYeon Kim, University of Wisconsin - Madison</i></p> <p>91. Human-AI Interaction for Safety and Security: Is Generative AI a Bliss or a Menace? Author(s): <i>Dr. Changwon Son, Texas Tech University</i></p> <p>92. Leveraging AI to Improve Task-specific Biomechanical Safety in Work Instruction Author(s): <i>Gregory Rawlings, Acadisium; Fernando Montalvo, Jacobs Space Operations Group; Yash Mehta, Florida Institute of Technology; Itzel Guillen, Vanderlande Industries; Promise Stephens, Jacobs Space Operations Group; Phuoc Thai, University of Central Florida</i></p> <p>93. Smart All-Hazard Responses Framework (SARF): Human Factors and Ergonomics Approach Author(s): <i>Dr. Junho Park, Santa Clara University</i></p> <p>94. An Information Theoretic Approach to Understanding the Information Gain During Laparoscopic Motor Skill Training Author(s): <i>Matthew Ball, Clemson University; Jackie Cha, Clemson University</i></p>	<p>Poster</p> <p>Aerospace Systems Track</p> <p>Cognitive Engineering & Decision Making Track</p> <p>Computer Systems Track</p> <p>Forensics Professional Track</p> <p>Health Care Track</p> <p>Human Performance Modeling Track</p> <p>Individual Differences in Performance Track</p> <p>Perception and Performance Track</p> <p>Product Design Track</p> <p>Surface Transportation Track</p> <p>Usability and System Evaluation Track</p> <p>Extended Reality Track</p>
--	--

<p>95. Eliciting Requirements & Recommendations for Training Macrocognition in Teams: Considerations for Collaborative Problem Solving Authors: <i>Nathan Sonnenfeld, University of Central Florida; Blake Nguyen, University of Central Florida; Giovanni Diaz Alfaro, University of Central Florida; Vera Daniliv, University of Central Florida; Olivia Newton, University of Central Florida; Florian Jentsch, University of Central Florida; Stephen Fiore, University of Central Florida</i></p> <p>96. Navigating Cognitive Demand in Virtual Reality: Implications for Education and Training Author: <i>Gregory McGowin, University of Central Florida</i></p> <p>97. Mind the Gap! Advancing Immersion in Virtual Reality—Technological Factors, Measurement, and Research Opportunities Author: <i>Gregory McGowin, University of Central Florida</i></p> <p>98. Enhancing Aviation Safety through User-Centric Design: The Evolution of FAA's ASAIC Toolkit Within the Systems Safety Management Transformation Effort Authors: <i>Dr. Jessica Cruit, Astrion; Chris Andrzejczak, Astrion; Dereck Wilson, Federal Aviation Administration</i></p> <p>99. Play Speed and Experience Impacts Visual Behaviors During Clone Hero Gameplay Authors: <i>Shawn Akridge, George Mason University; Matt Peterson, George Mason University</i></p> <p>100. Psychological Fidelity: A Systematic Review to Support Simulation-Based Training Authors: <i>Andy C. Silva, University of Central Florida; Olivia B. Newton, University of Central Florida</i></p> <p>101. Toward Real-Time Intervention for Enhancing Multitasking Performance: A Scoping Review Authors: Ji-Eun Kim, University of Washington 102. Explaining How to Interpret a Usability Survey May Enhance Reliability Without Negatively Influencing Responses Authors: <i>Ian Robertson, Rice University; Xiaoxuan "Alicia" Cheng, Rice University; Philip Kortum, Rice University</i></p> <p>102. Best of Both Worlds: Using the Performance Operating Characteristic to Assess Dual-Task Performance with Vehicle Automation Author: <i>Jahinaya Parker, University of Wisconsin - Madison</i></p> <p>103. Experiences and Perspectives on Living in a Networked Home: Evaluating Feedback from a Smart Home Kit Field Study Authors: <i>Shabnam FakhrHosseini, Massachusetts Institute of Technology; Chaiwoo Lee, Massachusetts Institute of Technology; Sheng-hung Lee, Massachusetts Institute of Technology; Lauren Cerino, Massachusetts Institute of Technology; Joseph Coughlin, Massachusetts Institute of Technology</i></p> <p>104. Explaining How to Interpret a Usability Survey May Enhance Reliability Without Negatively Influencing Responses Authors: <i>Ian Robertson, Rice University; Xiaoxuan "Alicia" Cheng, Rice University; Philip Kortum, Rice University</i></p> <p>105. Measuring Intuitiveness: Expected and Experienced Fluency Authors: <i>Mary Still, Old Dominion University; Mary Rust, Old Dominion University</i></p> <p>106. Oculomotor Predictors of Usability: Visual Search Guidance and Target Verification Author(s): <i>Steven Ford, University of Central Florida</i></p> <p>107. Reducing the Barriers to Neuroergonomic and Psychophysiological Research Through Usability Author: <i>Steven Ford, University of Central Florida</i></p> <p>108. One Game, Multiple Platforms: Enhancing Usability and Accessibility in Dead by Daylight (DBD) Author(s): <i>Elizabeth Codick, University of Central Florida</i></p> <p>109. The Use of Eye-tracking Technology to Measure Cognitive-Behavioral Processes During IV Medication Administration Author(s): <i>Jeannine Blake, University of Massachusetts, Amherst</i></p> <p>110. Usability Assessment of openEMR: Enhancing Healthcare Interactions Author(s): <i>Abdelrahman M. Mahmoud, University of Louisville; Jason J. Saleem, University of Louisville</i></p> <p>111. Usability of an Active Hand Grip Strength Industrial Exoskeleton: A Heuristic Evaluation Author(s): <i>Alejandra Martinez Fernandez, University of Texas at El Paso; Laura Tovar, University of Texas at El Paso; Carla Irigoyen Amparan, University of Texas at El Paso; Karen Gonzalez, University of Texas at El Paso; Prajina Edayath, University of Texas at El Paso; Priyadarshini Pennathur, University of Texas at El Paso; Arunkumar Pennathur, University of Texas at El Paso</i></p>	<p>Poster</p> <p>Aerospace Systems Track</p> <p>Cognitive Engineering & Decision Making Track</p> <p>Computer Systems Track</p> <p>Forensics Professional Track</p> <p>Health Care Track</p> <p>Human Performance Modeling Track</p> <p>Individual Differences in Performance Track</p> <p>Perception and Performance Track</p> <p>Product Design Track</p> <p>Surface Transportation Track</p> <p>Usability and System Evaluation Track</p> <p>Extended Reality Track</p>
--	--

<p>112. User Experience of Voice-Powered Technologies by People with Visual Disabilities Author(s): Hyung Nam Kim, North Carolina A&T State University</p> <p>113. User-Centered Design of Neuropsychological eHealth Interventions Authors: Andrea Lefebvre-Rivera, University of Central Florida; Promise Stephens, Jacobs Space Operations Group; Jasmine Martinez-Robitzsch, University of Central Florida; Phuoc Thai, University of Central Florida; Fernando Montalvo, Jacobs Space Operations Group</p> <p>114. Augmented Reality in Extra-Vehicular Activities: Optimizing Alert Detection and Cognitive Workload Authors: Melissa Cloutier, Rice University; Shreya Aagarwal, Rice University; Yining Zhang, Rice University; Jasmine M. Manansala, Georgia Institute of Technology; Michelle Zheng, Rice University; Daniel H. Kuo, Rice University; Benjamin Rubin, Rice University; Chloe S. Park, Rice University; Mert Culcu, Rice University; Justin Lee, Rice University</p> <p>115. Effect of Active Virtual Reality Experience on the Memory and Emotion of an Indirect Exposure to an Adverse Event Authors: Mohammad Jamshidzadeh, Texas Tech University; Killian Parker, Texas Tech University; Changwon Son, Texas Tech University</p> <p>116. Familiarization Training Game for Virtual Reality Spacesuit User Interface Authors: Maggie Schoonover, Wichita State University; Ryan Z. Amick, KBR/NASA</p> <p>117. Impact of Immersion in Virtual Reality (VR) and Desktop Environments on Spatial Ability Authors: Heather Lum, Arizona State University; Jessica Lee, Arizona State University; Selena Evans, Arizona State University; Yue Liu, Arizona State University; Taylor Kampf, Arizona State University</p> <p>118. Improving Learning and Performance in Assembly Operations: A Comparative Study of VR, AR, and Paper-Based Instructions Author: Md Abdullah, The University of Texas at Arlington</p> <p>119. Virtual Reality and Depth Cues: Are Women at a Disadvantage? Authors: Rachel Benton, North Carolina State University; Anne Collins McLaughlin, North Carolina State University; Andrea Macedo Salas, North Carolina State University</p>	<p>Poster</p> <p>Aerospace Systems Track</p> <p>Cognitive Engineering & Decision Making Track</p> <p>Computer Systems Track</p> <p>Forensics Professional Track</p> <p>Health Care Track</p> <p>Human Performance Modeling Track</p> <p>Individual Differences in Performance Track</p> <p>Perception and Performance Track</p> <p>Product Design Track</p> <p>Surface Transportation Track</p> <p>Usability and System Evaluation Track</p> <p>Extended Reality Track</p>
---	--

THURSDAY, SEPTEMBER 12

All Day

<p>University Lab Posters McArthur Foyer</p> <p><i>Adaptive Cognitive Systems Laboratory at Iowa State University; Autonomy & Robotics for Collaborative Systems Lab; The University of Tennessee, Knoxville; Center for Ergonomics Labs at the University of Michigan; Center for Human, AI, and Robot Teaming (CHART) at Arizona State University; Design & Implementation Sciences Program, Health & Wellness Design Department, Indiana University School of Public Health Bloomington; Engineering for Democracy Institute, University of Rhode Island; GMU Human Factors & Applied Cognition Program; Human Factors & Applied Statistics Lab - University of Toronto; Human Factors and Ergonomics Program at the University of Wisconsin Madison; Human Factors Labs at Embry-Riddle Aeronautical University; Human Factors Research Facilities at California State University, Long Beach; Human Factors Safety Lab (HFSL), University of Minnesota; Human Optimization Modelling Lab (HOMLab), University of Waterloo; Human Systems Engineering Laboratories at Arizona State University; Humans and Technology Laboratory (HATLab); Michigan Tech; NeuroErgonomics Lab at University of Wisconsin Madison; Occupational Safety, Ergonomics and Injury Prevention Center at Auburn University; Purdue University; Rice University; Sawyer Laboratories, University of Central Florida; SHARE Lab, Texas Tech University; The Challenge Metacognition and Perception (ChaMP) Lab at The University of Alabama in Huntsville; The Cognitive Performance Lab at Oklahoma State University; University of Central Florida; University of Virginia; University of Washington; Virginia Polytechnic Institute and State University; Virtual and Augmented Reality Laboratory at North Carolina State University</i></p>	<p>Industry/Practitioner Case Study Lecture</p> <p>Aerospace Systems Track</p> <p>Usability and System Evaluation Track</p>
--	---

8:30-9:30 a.m.	
<p>PD4: Circularity Driven Product Design for Recycling, Refurbishment, Reuse and Lowering Carbon Footprints FLW Salon A Session Chair: <i>David Rempel (UC Berkeley)</i></p> <p>Circularity Driven Product Design for Recycling, Refurbishment, Reuse and Lowering Carbon Footprints Panelists: <i>Christopher Reid, The Boeing Company; Kathryn Tippey, Philips; Amrita Maguire, Dell Technologies</i></p>	Discussion Panel Product Design Track Sustainability Track
<p>CEDM7: Cognitive Systems Engineering Issues in the Design of Machine Learning Systems FLW Salon C Session Chair: <i>Samantha Krening (The Ohio State University)</i></p> <p>Cognitive Systems Engineering Issues in the Design of Machine Learning Systems Panelist: <i>Philip Smith, The Ohio State University; Mica Endsley, SA Technologies; Joseph Lyons, Wright-Patterson AFB; John Lee, University of Wisconsin – Madison; Emilie Roth, Roth Cognitive Engineering</i></p>	Discussion Panel Cognitive Engineering & Decision Making Track
<p>AS6: Accident Analysis FLW Salon D Session Chair: <i>Shraddha Swaroop (California State University, Long Beach)</i></p> <p>Factors that Affect Pilot Response Times to Alerts: Findings from a Literature Review and ASRS Reports Authors: <i>Kelene Fercho, Federal Aviation Administration; Dennis Beringer, Cherokee Nation 3-S; Colleen Donovan, Federal Aviation Administration</i></p> <p>Cognitive Biases in Commercial Aviation: Empirical Review of Accident Reports Authors: <i>Chihab Nadri, Texas A&M University; Jordan Regalado, Texas A&M University; Thomas Ferris, Texas A&M University; Maryam Zahabi, Texas A&M University</i></p>	Lecture Aerospace Systems Track
<p>ST9: Driver and Remote Operator Cognition FLW Salon G Session Chairs: <i>Gaojian Huang (San Jose State University); Aries Chu (San Jose State University)</i></p> <p>A Novel Experiment Design for Studying Multiple Cognitive Factors in Conditionally Automated Driving Contexts Authors: <i>Sibibalan Jeevanandam, Purdue University; Michael Williamson Tabango, Purdue University; Xipeng Wang, Purdue University; Neera Jain, Purdue University</i></p> <p>Differentiating High Cognitive Load and Drowsiness Using Driver Performance and Physiology Authors: <i>Suzan Ayas, University of Toronto; Dengbo He, The Hong Kong University of Science and Technology; Birsen Donmez, University of Toronto</i></p> <p>Understanding the Workload of Remote Truck Operators with Discrete Event Simulation Authors: <i>Xingjian Ma, University of Wisconsin – Madison; Vanik Zakarian, University of Wisconsin – Madison; Anthony McDonald, University of Wisconsin – Madison</i></p>	Lecture Surface Transportation Track

<p>OE8: Crab Studies and Ballot Opening FLW Salon H Session Chair: <i>Joel Haight (University of Pittsburgh); Peiran Liu (Purdue University)</i></p> <p>Toward Safer Crab Harvesting Environment: Sorting Table Height and Low Back Biomechanical Load During Crab Sorting Authors: <i>Mina Salehi Sedeh, Oregon State University; Kinana Kia, Oregon State University; Allen Chan, Oregon State University; Matthew Agnew, Oregon State University; Seobin Choi, Oregon State University; Laurel Kincl, Oregon State University; Jeong Ho Kim, Oregon State University</i></p> <p>Effects of Different Mechanized Winch Swing Directions on Low Back Load During Crab Pot Hauling Authors: <i>Kiana Kia, Oregon State University; Allen Chan, Oregon State University; Mina Salehi Sedeh, Oregon State University; Matthew Agnew, Oregon State University; Laurel Kincl, Oregon State University; Jay Kim, Oregon State University</i></p> <p>Exploring Process Performance of Envelope Opening and Ballot Extraction Options in Vote-by-Mail: A Utah Case Study Authors: <i>Leonie S. Otte, University of Rhode Island; Gretchen A. Macht, University of Rhode Island</i></p>	<p>Lecture Occupational Ergonomics Track</p>
<p>PP6: Perception and Performance in Driving FLW Salon I Session Chairs: <i>Jason McCarley (Oregon State University), Srijani Mukherjee (Member)</i></p> <p>Human Factors Engineering (HFE) Considerations for Mounting Internal Interfaces in Industry Vehicles Authors: <i>Sean Bumgarner, Colorado State University; Sarah Rudder, Colorado State University; Erika Gallegos, Colorado State University</i></p> <p>Design of Multimodal In-Vehicle Notifications at Highway-Rail Grade Crossings: A Perception Study Authors: <i>Abhraneil Dam, Virginia Polytechnic Institute and State University; Henry Ro, Virginia Polytechnic Institute and State University; Samantha Walker, Michigan Technological University; Gayoung Ban, Virginia Polytechnic Institute and State University; Pasi Lautala, Michigan Technological University; Elizabeth Veinott, Michigan Technological University; Myounghoon Jeon, Virginia Polytechnic Institute and State University</i></p> <p>Investigating the Effects of Binaural Beats on Driver's Drowsiness Authors: <i>Jing Zang, Purdue University; Chiho Lim, Purdue University; Carsten Starke, Ford Motor Company; Mansoor Nasir, Ford Motor Company; Ksenia Kozak, Ford Motor Company; Denny Yu, Purdue University; Brandon Pitts, Purdue University</i></p>	<p>Lecture Perception and Performance Track</p>
<p>HC11: Patient Safety and Quality in Healthcare II Grand Ballroom Session Chair: <i>Hanna J Barton (University of Wisconsin - Madison)</i></p> <p>Patient Perceived Quality of Outpatient and Inpatient Care Between General and Specialized Hospitals Authors: <i>Qian Lin, The University of Hong Kong; Calvin Or, The University of Hong Kong; Dan Zhang, Tsinghua University</i></p> <p>Evaluating the Safety and Quality of Intraoperative Anesthesia Handoffs Authors: <i>Mojgan Zoaktafi, University of Illinois at Urbana-Champaign; Michael W. Russell, West Virginia University School of Medicine; Ankit Bansal, State University of New York-Binghamton; Osman Ozaltin, North Carolina State University; Abigail R. Wooldridge, University of Illinois at Urbana-Champaign</i></p> <p>Beyond Anecdotes: Quantifying the Baseline Prevalence of Phantom Alarms in Healthcare Authors: <i>Elizabeth Galinsky, Corewell Health; Megan McCray, Corewell Health</i></p>	<p>Lecture Health Care Track</p>

<p>HART11: Physiology, Fatigue and Human-AI-Robot Teaming Flagstaff Session Chair: <i>Nicole Rote (University of Colorado, Boulder)</i></p> <p>Multimodal Physiological Models of Situation Awareness Authors: <i>Kieran Smith, University of Colorado Boulder; Tristan Endsley, Draper; Torin Clark, University of Colorado</i></p> <p>Human-Robot Interactions Under Fatigue During an Overnight sUAS Disaster Response Exercise Authors: <i>Aakash Yadav, University of Wisconsin – Madison; Gracie Woodland, Texas A&M University; Ranjana Mehta, University of Wisconsin – Madison; Dr. S. Camille Peres, U.S. Nuclear Regulatory Commission; Tom Mazini, Texas A&M University; Robin Murphy, Texas A&M University</i></p> <p>Inter-Brain Synchrony Signals Shifts in Multi-Human Robot Team Dynamics Amidst Uncertainties Authors: <i>Aakash Yadav, University of Wisconsin – Madison; Ranjana Mehta, University of Wisconsin – Madison</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>
---	---

9:45-10:45 a.m.

<p>XR5: Enhancing Learning in Extended Reality FLW Salon A Session Chair: <i>Md Abdullah (The University of Texas at Arlington); Ronak Ranjitkumar Mohanty (University of Wisconsin - Madison)</i></p> <p>Effects of Self-Learning and Exploration for XR-based Interactions Authors: <i>Yalda Ghasemi, University of Illinois Chicago; Debaleen Chattopadhyay, University of Illinois Chicago; Heejin Jeong, Arizona State University; Hyungil Kim, University of Illinois Chicago; Jida Huang, University of Illinois Chicago</i></p> <p>Downloading Creativity Mods: Improving Our Problem-Solving Skill Transfer Authors: <i>Kaitlyn Rose, Michigan Technological University; Jasmine Estes, Grand Valley State University; Kenzie Baker, Michigan Technological University; Elizabeth Veinott, Michigan Technological University</i></p>	<p>Lecture Extended Reality Track</p>
---	--

<p>A2: Conscious Aging in Place FLW Salon B Session Chair: <i>Boyi Hu (University of Florida)</i></p> <p>Aging in a Smart Home? The Oldest Olds' Attitudes Toward Technology for Aging-in-Place Authors: <i>Lauren Cerino, Massachusetts Institute of Technology; Sophia Ashebir, Massachusetts Institute of Technology; Taylor Patskanick, Massachusetts Institute of Technology; Shabnam FakhrHosseini, Massachusetts Institute of Technology; Lisa D'Ambrosio, Massachusetts Institute of Technology; Joseph Coughlin, Massachusetts Institute of Technology</i></p> <p>Designing, Implementing, and Testing Decision Support for a Digital Therapeutic System to Improve Medication Adherence for Older Adults Author: <i>Jeannie K. Lee, University of Arizona</i></p> <p>Exploring Longitudinal Physiological Monitoring: Insights from Utilizing a Commercial Wearable Device Among Older Adults with Mild Cognitive Impairment Authors: <i>Emily Gleaton, Georgia Institute of Technology; Emily Parcell, Georgia Institute of Technology; Jenny Erickson, Georgia Institute of Technology; Bradley Fain, Georgia Institute of Technology</i></p>	<p>Lecture Aging Track</p>
---	---------------------------------

<p>CEDM8: Distributed Work 1 FLW Salon C Session Chair: <i>Richard Stone (Iowa State University)</i></p> <p>Automating the Analysis of Dialogue Acts in Teams to Understand Distributed Sensemaking Authors: <i>Christopher Baber, University of Birmingham; Andrew Leggatt, Trimetis; George Raywood-Burke, Trimetis; Simon Attfield, Trimetis; Huw Gibson, Trimetis; Donna Amey, Defence Science and Technology Laboratory</i></p> <p>Eyes on the Mission: Eye-Tracker-Enabled Real-Time Decision Support System in a Simulated Remotely Piloted Aircraft Task Environment Authors: <i>Farzan Sasangohar, Texas A&M University; Hyun-Gee Jei, Texas A&M University; Mustafa Demir, Texas A&M University</i></p> <p>Interface Design and Evaluation to Support Transfer of Tactical Control (ToTC) in Distributed Teams Author: <i>Hunter Oldham, U.S. Air Force Research Laboratory</i></p>	<p>Lecture Cognitive Engineering & Decision Making Track</p>
<p>SS10: HFES Technical Standards Update FLW Salon D Moderators: <i>Robert Fox, University of Michigan; Rammohan Maikala, National Safety Council</i></p> <p>An Update on the Human Factors and Ergonomics Standards Work Panelists: <i>Peregrin Spielholz, The Boeing Company; Robert Fox, University of Michigan; Amrita Maguire, Dell Technologies; Chris Reid, The Boeing Company; Shin'ichi Fukuzumi, RIKEN Center</i></p>	<p>Special Session</p>
<p>ST10: Vehicle Interfaces, Displays and Warnings—Part 1 FLW Salon G Session Chairs: <i>Victor Paquet (University at Buffalo); Myeongkyu Lee (Purdue University)</i></p> <p>Impacts of Non-Driving-Related Task Interface Design on Time Changes of Motion Sickness Severity and Task Performance During Fully Autonomous Driving Authors: <i>Woojin Park, Seoul National University; Sungmin Kim, Seoul National University</i></p> <p>The Impact of Meaningful Vibrotactile Displays on User Preferences Across Age Groups in Automated Driving Authors: <i>Zhi Zhang, San Jose State University; Wei-Hsiang Lo, San Jose State University; Gaojian Huang, San Jose State University</i></p> <p>Impacts of Infrastructure-Assisted In-Vehicle Warning on Driving Behavior and Eye Movement at Roundabouts Authors: <i>Tianfang Han, University of Idaho; Cong Zhang, Purdue University; Chi Tian, Purdue University; Hang Li, Purdue University; Yiheng Feng, Purdue University; Yunfeng Chen, Purdue University; Jiansong Zhang, Purdue University</i></p>	<p>Lecture Surface Transportation Track</p>
<p>USE6: Sleep Tracking, QR Codes and Large Language Usability and System Evaluation FLW Salon H Session Chair: <i>Judi See (Sandia National Laboratories)</i></p> <p>The Impact and Potential of QR Codes in Healthcare: a Comprehensive Review Authors: <i>Pratyusha Joshi, Mumbai University; Sahil Sawant, Mumbai University</i></p> <p>Participant Compliance When Wearing a Sleep-Tracking Ring for Extended Time Periods: Preliminary Results Authors: <i>Nita Shattuck, Naval Postgraduate School; Panagiotis Matsangas, Naval Postgraduate School; Christopher McClernon, Naval Postgraduate School</i></p> <p>The Influence of Task and Group Disparities over Users' Attitudes Toward Using Large Language Models for Psychotherapy Authors: <i>Qihang He, Sichuan University; Jiyao Wang, The Hong Kong University of Science and Technology (Guangzhou); Dengbo He, The Hong Kong University of Science and Technology (Guangzhou)</i></p>	<p>Lecture Usability and System Evaluation Track</p>

<p>T4: Toward Effective Safety Training FLW Salon I Session Chairs: <i>Megan Morris (U.S. Air Force Research Laboratory)</i></p> <p>Relationship Between Arousal and Technical Performance in the Oil & Gas Sector: An Investigation Using a Simulated Well Control Scenario Authors: <i>Leonardo Bori, University of Modena and Reggio Emilia; Sandro Rubichi, University of Modena and Reggio Emilia; Cristina Iani, University of Modena and Reggio Emilia</i></p> <p>Investigating Knowledge Gain and User Satisfaction in UAS Safety Modules: A Pilot Study Authors: <i>Kamala Avancha, Arizona State University; Savannah Bradley, Arizona State University; Hari Iyer, Arizona State University; Stephanie Becerra, Arizona State University; Scotty Craig, Arizona State University</i></p> <p>Firearm Safety Dimensions, an Extension of the Military Safety Climate Questionnaire Author: <i>Martin Schöler, Swedish Defence University</i></p>	Lecture Training Track
<p>HC12: Practitioner Potpourri—AI, Usability and Demonstrating Value in Healthcare Grand Ballroom Session Chairs: <i>Casey Kovesdi (Idaho National Laboratory); Steven Foster (Clemson University)</i></p> <p>Does Artificial Intelligence Change How We Design User Interfaces? A Case Study From Representatives in the Medical Device Industry Authors: <i>Judith Tiferes, Boston Scientific; Mi Zhou, Boston Scientific</i></p> <p>Mixed Methods Approach to Assessing Usability of a Self-Monitoring Program Designed for Veterans with Obstructive Sleep Apnea on Non-PAP Therapy Authors: <i>Selene Mak, VA Greater Los Angeles Healthcare System; Sara Ghadimi, University of California Los Angeles; Erin Der-McLeod, VA Greater Los Angeles Geriatric Research Education and Clinical Center (GRECC); Saadia Naeem, Greater Los Angeles Veterans Research and Education Foundation (GLAVREF); Virginia Moore, VA Greater Los Angeles Sleep Center; Moeed Chohan, VA Greater Los Angeles Sleep Center; Lizzeth Gil, VA Greater Los Angeles Sleep Center; Michelle Zeidler, VA Greater Los Angeles Sleep Center; Garrett Ash, VA Connecticut Healthcare System; Constance Fung, VA Greater Los Angeles Sleep Center</i></p> <p>Demonstrating the Value and Impact of Human Factors-Based Projects in Healthcare Authors: <i>Jason Saleem, University of Louisville; Kurt Ruark, Veterans Health Administration; Kyle Maddox, Veterans Health Administration; Jennifer Herout, U.S. Department of Veterans Affairs</i></p>	Industry/ Practitioner Case Study Lecture Health Care
<p>HART12: Human-Artificial Intelligence Teaming for the U.S. Navy: Developing a Holistic Research Roadmap Flagstaff Session Chair: <i>Erin Chiou (Arizona State University)</i></p> <p>Human-Artificial Intelligence Teaming for the U.S. Navy: Developing a Holistic Research Roadmap Panelists: <i>Jason Wong, Naval Information Warfare Center Pacific; Robert Gutzwiller, Arizona State University; Maia Cook, Pacific Science & Engineering Group; Corey Fallon, Pacific Northwest National Laboratory</i></p>	Discussion Panel Human AI Robot Teaming (AI) Track

11:15 a.m.-12:15 p.m.

SU2 with ED: Human-Centered Design Across Contexts: Workspaces, Emotions, and Sacred Spaces

FLW Salon A

Session Chair: *David Rempel (UCSF)*

Promoting Eco-Friendly Behavior in University Activity-Based Workspaces Through Eco-Feedback

Authors: *Sara Sadralashrafi, Clemson University; Mohammadhossein Nahavandian, Clemson University; David Neyens, Clemson University; Bart Knijnenburg, Clemson University; Da Li, Clemson University*

A Novel Affective Design Tool: Task Emotion Analysis (TEA)

Authors: *Myoungsoon Jeon, Virginia Polytechnic Institute and State University; Gayoung Ban, Virginia Polytechnic Institute and State University; Mungyeong Choe, Virginia Polytechnic Institute and State University; Yeana Bond, Virginia Polytechnic Institute and State University*

Ecclesiastical Ergonomics? Human Factors in Traditional and Modern Sacred Architecture

Authors: *Peter Trocha, Texas A&M University; Thomas Ferris, Texas A&M University*

Lecture
Environmental Design Track
Sustainability Track

EDU5: HF Education—Transdisciplinary Programs and Technology

FLW Salon B

Session Chair: *Jiwon Kim (Iowa State University)*

Developing an Undergraduate Human Factors Program at Michigan Technological University: Process and Lessons Learned

Authors: *Kelly S. Steelman, Michigan Technological University; Samantha L. Smith, Michigan Technological University*

Market Analysis of Undergraduate Degrees Related to Human Factors, HCI, and UX

Authors: *Stephen Gilbert, Iowa State University; Sarah Pippin, Iowa State University; Steven Hoopingarner, Iowa State University; Tiffany Kayser, Iowa State University; Eliot Winer, Iowa State University*

From Textbooks to Tutors: Can Generative Language Models Engage and Empower Students?

Authors: *John Lee, University of Wisconsin - Madison; Linda Boyle, New York University; Christopher Wickens, Colorado State University; Yili Liu, University of Michigan*

Lecture
Education Track

S5: Alertness and Adaptability

FLW Salon C

Session Chairs: *Mustafa Demir (Texas A&M University); Dylan Jurski (Idaho National Laboratory, University of Florida)*

The Impact of Task Complexity on Reaction Time to Vibrotactile Warnings in Struck-by Hazards

Authors: *Xiang Yang, Virginia Polytechnic Institute and State University; Maury Nussbaum, Virginia Polytechnic Institute and State University; Nazila Roofigari-Esfahan, Virginia Polytechnic Institute and State University*

The Crucial Role of Adaptability in Mitigating the Negative Impacts of Skill Decay in Astronaut Teams: A Systematic Review & Thematic Analysis

Authors: *Lila Berger, Rice University; Dr. Eduardo Salas, Rice University; Maha Khalid, Rice University*

Lecture
Safety Track

SS11: Meet the Editors

Rimrock

Meet the Editors

Special Session

<p>ST11: Vehicle Interfaces, Displays and Warnings—Part 2 FLW Salon G Session Chairs: <i>James Parkinson (Purdue University); Sameeran Kanade (Purdue University)</i></p> <p>Driver Behavior in Response to Forward Collision Warnings Considering Driving Context Authors: <i>Zhouqiao Zhao, Massachusetts Institute of Technology</i></p> <p>Comparing Static and Dynamic Vibration Cues in Wristband Haptic Feedback for Enhanced Driver Response in Automated Vehicles Authors: <i>Wei-Hsiang Lo, San Jose State University; Gaojian Huang, San Jose State University</i></p>	Lecture Surface Transportation Track
<p>OE9: Shoulder Exoskeleton FLW Salon H Session Chair: <i>Jacob Banks (Baxter International)</i></p> <p>A Pilot Study Evaluation of a Passive Shoulder Exoskeleton for a Drilling-Fastening Task Authors: <i>Jiayang Tang, University of Michigan; Dongjoon Kong, The Boeing Company; Leia Stirling, University of Michigan</i></p> <p>Effects of Using Arm-Support Exoskeletons on Muscle Coordination During a Pseudo-Static Overhead Task: Preliminary Analysis of Muscle Synergy Authors: <i>Hanjun Park, Virginia Polytechnic Institute and State University; Aanuoluwapo Ojelade, The State University of New York at Buffalo; Sunwook Kim, Virginia Polytechnic Institute and State University; Maury Nussbaum, Virginia Polytechnic Institute and State University</i></p> <p>Effects of Shoulder Exoskeletons on Muscular Load and Postural Stability during Electrical Cable Pulling Tasks on an Unstable Work Platform Authors: <i>Kiana Kia, Oregon State University; Allen Chan, Oregon State University; Mina Salehi Sedeh, Oregon State University; Matthew Agnew, Oregon State University; Christopher Pan, National Institute for Occupational Safety and Health; Liying Zheng, National Institute for Occupational Safety and Health; Christopher Warren, National Institute for Occupational Safety and Health; Jay Kim, Oregon State University</i></p>	Lecture Occupational Ergonomics Track
<p>PP7: Information and Safety FLW Salon I Session Chair: <i>Mahdis Tajdari (Virginia Polytechnic Institute and State University); Manhua Wang (Virginia Polytechnic Institute and State University)</i></p> <p>Advertisement Blindness in Mobile Social Media Apps Authors: <i>Nora Szlodovics, San Jose State University; Evan Palmer, San Jose State University</i></p> <p>Beyond the Cone of Uncertainty: Exploring the Flexibility of Animated Risk Trajectories for Improving Hurricane Risk Communication Authors: <i>Amelia Warden, Colorado State University; Jessica Witt, Colorado State University; Benjamin Clegg, Montana State University</i></p> <p>The Effects of Voice Features in Voice Assistant Systems on Human Perceived Emotion Authors: <i>Nishanth Prabhu Kurunthachalam, University of Michigan; Sang-Hwan Kim, University of Michigan</i></p>	Industry/Practitioner Case Study Lecture Perception and Performance Track

<p>HC13: Ergonomics in Healthcare II Grand Ballroom Session Chairs: <i>Changxu Wu (Tsinghua University); Ryan Villarreal (Purdue University)</i></p> <p>Evaluation of a Passive Upper Extremity Exoskeleton on Reducing Discomfort and Workload in Cardiac Sonographers Authors: <i>Tianke Wang, Mayo Clinic; Emmanuel Tetteh, Mayo Clinic; Michael Martineau, Mayo Clinic; Merri Bremer, Mayo Clinic; Garvan Kane, Mayo Clinic; M. Susan Hallbeck, Mayo Clinic</i></p> <p>Comparing the Effectiveness and Applicability of Two Intraoperative Break Scheduling Strategies on Surgeons' Workload and Body Part Discomfort Using OR-Stretch Web-App Authors: <i>Hamid Norasi, Mayo Clinic; Mojgan Zoaktafi, Mayo Clinic; Joseph Kim, Mayo Clinic; Tianke Wang, Mayo Clinic; Emmanuel Tetteh, Mayo Clinic; M. Susan Hallbeck, Mayo Clinic</i></p> <p>Exploring the Social Contexts of Exoskeleton Design and Implementation in Long-Term Care: A Study of Nurses and Nurse Managers with Musculoskeletal Disorders Authors: <i>Eleanore Scheer, University of Virginia; Jad Atweh, University of Virginia; Elizabeth Thompson, University of Virginia; Jaiden Murray, University of Virginia; Elvie Sellers, University of Virginia; Divya Srinivasan, Clemson University; Rupa Valdez, University of Virginia</i></p>	<p>Lecture Health Care Track</p>
--	---------------------------------------

1:30-2:30 p.m.

<p>XR6: Heightening the Virtual Reality Experience With Movement and Cueing FLW Salon A Session Chairs: <i>Chidubem Nuela Enebechi (Purdue University); Elda Lilian Garza (Explico)</i></p> <p>Embodiment of Virtual Body and Extremities With Movement Control in Reaching Tasks Using Virtual Reality Authors: <i>Linfeng Wu, North Carolina State University; Karen Chen, North Carolina State University</i></p> <p>Study of Graphic Armatures, Multimodal Cues and Numeric Measures in Virtual Reality on Learners' Performance and Workload Author: <i>Karen B. Chen, North Carolina State University</i></p> <p>Vibrotactile Displays to Support Hazard Awareness in Excavation Operations Authors: <i>S. M. Ashif Hossain, Texas A&M University; Allen Yin, Texas A&M University; Dr. Thomas Ferris, Texas A&M University</i></p>	<p>Lecture Extended Reality Track</p>
---	--

<p>AC2: Sensing in Augmented Cognition FLW Salon B Session Chair: <i>Holden Duffie (Clemson University)</i></p> <p>Does Augmenting Virtual Reality-Based Cognitive Training With Longitudinal, Anodal Transcranial Direct Current Stimulation Improve Visual Search Performance? A Neurobehavioral Evaluation Authors: <i>Akash K Rao, Indian Institute of Technology Mandi; Raghav Bhat, Arizona State University; Arnav Bhavsar, Indian Institute of Technology Mandi; Shubhajit Roy Chowdhury, Indian Institute of Technology Mandi; Ramsingh Negi, Institute of Nuclear Medicine and Allied Sciences; Varun Dutt, Indian Institute of Technology Mandi</i></p> <p>Towards Adaptive Virtual Reality Systems: Understanding Emotional and Physiological Responses in VR Game Authors: <i>Allison Bayro, Arizona State University; Heejin Jeong, Arizona State University</i></p> <p>Eye, Heart, the Brain: The Psychophysiology of Trust in AVs Authors: <i>Yinsu Zhang, University of Wisconsin - Madison; Ranjana Mehta, University of Wisconsin - Madison</i></p>	<p>Lecture Augmented Cognition Track</p>
--	---

<p>CEDM9: Distributed Work II FLW Salon C Session Chair: <i>Martijn IJtsma (The Ohio State University)</i></p> <p>Exploring Collaborative Patterns in Neurodiverse Teams: A Hidden Markov Model Approach Using Physiological Signals Authors: <i>Sunwook Kim, Virginia Polytechnic Institute and State University; Manhua Wang, Virginia Polytechnic Institute and State University; Megan Fok, Virginia Polytechnic Institute and State University; Caroline B. Hornburg, Virginia Polytechnic Institute and State University; Myunghoon Jeon, Virginia Polytechnic Institute and State University; Angela Scarpa, Virginia Polytechnic Institute and State University</i></p> <p>Assessing Team Performance in Complex Team-Based Command and Control Missions Through Information Sharing and Team Cohesion Authors: <i>Chrissy Chubala, Defence Research & Development Canada; Aren Hunter, Defence Research & Development Canada; Lori Dithurbide, Dalhousie University; Heather Neyedli, Dalhousie University</i></p> <p>Real-Time Gaze Sharing Techniques and Their Influence on Performance and Shared Situational Awareness of Teammates in UAV C2 Operations Authors: <i>Jad Atweh, University of Virginia; Mohamad El Iskandarani, University of Virginia; Sara Riggs, University of Virginia</i></p>	<p>Lecture Augmented Cognition Track</p>
<p>SS12: President-Elect Forum FLW Salon D</p> <p>Where is HFES Going and How are We Going to Get There? Authors: <i>Camille Peres, Nuclear Regulatory Commission</i></p>	<p>Special Session</p>
<p>ST12: Human Factors Concerns for a Mixed Equipage Society FLW Salon G Session Chair: <i>Bridget Kelley (The MITRE Corporation)</i></p> <p>Human Factors Concerns for a Mixed Equipage Society Panelists: <i>Dr. Carryl Baldwin, Wichita State University; Tracy Lennertz, Volpe National Transportation Systems Center; Oliver Carsten, University of Leeds; Chris Monk, Exponent, Inc.</i></p>	<p>Discussion Panel Surface Transportation Track</p>
<p>OE10: The Role of Anthropometry in Ergonomics Design for Occupational Safety: Current Status and Gaps FLW Salon H Session Chair: <i>Rammohan Maikala (National Safety Council)</i></p> <p>The Role of Anthropometry in Ergonomics Design for Occupational Safety: Current Status and Gaps Panelists: <i>Patrick Dempsey, National Institute for Occupational Safety and Health; Linsey Griffin, University of Minnesota; Joseph Parham, U.S. Army DEVCOM Soldier Center; Divya Srinivasan, Clemson University</i></p>	<p>Discussion Panel Occupational Ergonomics Track</p>
<p>PP8: Perception of Automation FLW Salon I Session Chair: <i>Behzad Esmaeili (Purdue University); Fernando Munoz Gomez Andrade (Oregon State University)</i></p> <p>The Influence of Perceptions of Task Difficulty on Use of an Automated Attention Aid Author: <i>Colleen Patton, North Carolina State University</i></p> <p>Misses Or False Alarms? How Error Type Affects Confidence In Automation Reliability Estimates Authors: <i>Ebernoe Guzman-Bonilla, North Carolina State University; Colleen Patton, North Carolina State University</i></p> <p>Graphical Features & Perceptions of Reliability Authors: <i>Virginia Sullivan, University of Alabama in Huntsville; Joseph Atchley, University of Alabama in Huntsville; Lisa Vangsness, University of Alabama in Huntsville; Nathan Tenhundfeld, University of Alabama in Huntsville</i></p>	<p>Lecture Perception and Performance Track</p>

<p>HC14: Equity in Healthcare II Grand Ballroom Session Chair: <i>Prajina Edayath (University of Texas at El Paso)</i></p> <p>Rethinking CPR training: The Significance of “Man” in Manikin on CPR Effectiveness Authors: <i>Tara Cohen, Cedars-Sinai Medical Center; Falisha Kanji, Cedars-Sinai Medical Center; Efren Esteves, Cedars-Sinai Medical Center; Yujie Cui, Cedars-Sinai Medical Center; Pooja Nawathe, Cedars-Sinai Medical Center</i></p> <p>Towards Safety Through Dismantling Systemic Racism Within the Healthcare Profession Author: <i>Myrte de Alfred, University of Toronto</i></p>	<p>Lecture Health Care Track</p>
<p>HART13: Advancing Human-AI-Robot Teaming Research Flagstaff Session Chair: <i>Anirudh More (Virginia Polytechnic Institute and State University)</i></p> <p>Human Autonomy Teaming in a Cooperative Gamified Testbed: How Can AI Teammates Support Teamwork Processes? Authors: <i>Yvonne Farah, Iowa State University; Michael Dorneich, Iowa State University</i></p> <p>Development of an Analysis of Alternatives Tool for Human-Agent Teaming Research Authors: <i>Daniel Nguyen, Aptima, Inc.; Myke Cohen, Aptima, Inc.; Summer Rebensky, Aptima, Inc.; Ramisha Knight, Aptima, Inc.; Cherrise Ficke, Aptima, Inc.; Lauren Fortier, Aptima, Inc.; Brent Fegley, Aptima, Inc.</i></p> <p>Human Empowerment as a Key Component of Human-AI Robot Teaming Authors: <i>Gabrielle Gillis, University of Connecticut; James Hughes, University of Connecticut; Christian Piscopo, University of Connecticut</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>
<p>3:00-4:00 p.m.</p>	
<p>AS7: Aerospace Systems with Cognitive Engineering and Decision Making FLW Salon A Session Chair: <i>Philippe Doyon-Poulin (Polytechnique Montreal)</i></p> <p>New Feature on Radar Display to Enhance Air Traffic Controller Performance and Situation Awareness Authors: <i>Mohamed Rostom, Embry-Riddle Aeronautical University; Dr. Andy Dattel, Embry-Riddle Aeronautical University; Sergio Taleisnik, Embry-Riddle Aeronautical University</i></p> <p>Effects of Weather Information Observability and Uncertainty on Pilot Assessment of Weather Conditions and Decision Making Authors: <i>Barrett Caldwell, Purdue University; Michael Splitt, Florida Institute of Technology; Evg Boerwinkle, Purdue University</i></p> <p>Models of Human-Automation Systems: Initial Analysis of the 737MAX Accidents Authors: <i>Dr. Asaf Degani, General Motors; Dr. Immanuel Barshi, NASA Ames Research Center; Robert Mauro, University of Oregon; Dr. Randall Mumaw, San Jose State University</i></p>	<p>Lecture Aerospace Systems Track</p>

<p>HPM3: Human Performance Modeling in Education and Training FLW Salon B Session Chair: <i>Dick Steinberg (Raytheon)</i></p> <p>Assessing Student Performance Through Pupil Dilation and Problem-Solving Time in Augmented Reality Authors: <i>Jung Hyup Kim, University of Missouri, Columbia; Siddarth Monhanty, University of Missouri, Columbia; Varun Pulipati, University of Missouri, Columbia; Fang Wang, University of Missouri, Columbia; Sara Mostowfi, University of Missouri, Columbia; Danielle Oprean, University of Missouri, Columbia; Yi Wang, University of Missouri, Columbia; Kangwon Seo, University of Missouri, Columbia</i></p> <p>Humanizing AI in Education: A Readability Comparison of LLM and Human-Created Educational Contents Authors: <i>Md Mamunur Rashid, University of Central Florida; Nilsu Atilgan, University of Central Florida; Jonathan Dobres, Virtual Readability Lab; Stephanie Day, University of Central Florida; Veronika Penkova, Virtual Readability Lab; Mert Küçük, Virtual Readability Lab; Steven R. Clapp, University of Central Florida; Ben D. Sawyer, University of Central Florida</i></p> <p>Calibrating Trust and Reliance in Variable-Reliability Automation Authors: <i>Christophe Holland, Dalhousie University; Grace Perry, Dalhousie University; Heather Neyedli, Dalhousie University</i></p>	<p>Lecture Human Performance Modeling Track</p>
<p>S6: Safety Cognition: From Construction Sites to Roadways FLW Salon C Session Chair: <i>Atif Ashraf (Texas A&M University)</i></p> <p>Enhancing Hazard Recognition in Construction: Developing Personalized Safety Training to Overcome Cognitive Limitations Authors: <i>Sogand Hasanzadeh, Purdue University; Kyeongsuk Lee, Purdue University; Behzad Esmaeili, Purdue University</i></p> <p>The Effects of External Stressors on Human Error Within High-Risk Construction Environment Authors: <i>Sogand Hasanzadeh, Purdue University; Shiva Pooladvand, Purdue University</i></p> <p>Effects of Road Sign Design Features on International Driver Comprehension of Road Signs Authors: <i>Hao-Jie Su, University of Michigan; Yili Liu, University of Michigan</i></p>	<p>Lecture Safety Track</p>

<p>LBR3: Late-Breaking 3 FLW Salon D Session Chair: <i>Duha Alkurdi (University of Michigan, Dearborn)</i></p> <p>Agree or Disagree: The Role of Agreeableness in Decision-Making with Multi-Robot Teams Authors: <i>Jennifer J Mitchell, Virginia Polytechnic Institute and State University; Madison Harmon, Virginia Polytechnic Institute and State University; Myounghoon Jeon, Virginia Polytechnic Institute and State University</i></p> <p>Exploring Proxemic Factors between Older Adults and an Assistive Robots Authors: <i>Yao-Lin Tsai, University of illinois at Urbana-Champaign; Samuel Olatunji, University of illinois at Urbana-Champaign; Wendy Rogers, University of illinois at Urbana-Champaign</i></p> <p>From Screen to Scene: Using Video vs. Virtual Reality in Human-Robot Visual Perspective Taking Authors: <i>Noushin Jamaatlou, George Mason University; Christi Svancara, George Mason University; Pawinee Pithayarungsarit, George Mason University; Hendeke Tafesse, George Mason University; Craig McDonald, George Mason University; Eva Wiese, Technische Universität Berlin; Eileen Roesler, George Mason University</i></p> <p>Exploring Emotional Bonds: A Systematic Review of Attachment in Human-Robot Interaction Authors: <i>Jennifer J Mitchell, Virginia Polytechnic Institute and State University; Myounghoon Jeon, Virginia Polytechnic Institute and State University</i></p> <p>Concept Cards for Human-Centered AI Authors: <i>Taissa Gladkova, The MITRE Corporation; Stephen Dorton, The MITRE Corporation; Tracy Sanders, The MITRE Corporation; Jeff Stanley, The MITRE Corporation; Joanna Korman, The MITRE Corporation; Mark Zimmermann, The MITRE Corporation; Jason Ralph, NUWC DIVNPT; Stephanie Speaker, NUWC DIVNPT</i></p> <p>Smart Home Users' Security and Privacy Perceptions and Actions Differ By Device Category: Results from a Representative U.S. Survey Authors: <i>Julie Haney, National Institute of Standards and Technology; Yasemin Acar, Paderborn University; Anna Li, Massachusetts Institute of Technology; Faith Haney, University of Maryland</i></p>	<p>Lecture Late Breaking Results</p>
<p>ST13: Interactions With Pedestrians and the Environment FLW Salon G Session Chair: <i>Bridget Kelley (The MITRE Corporation); Myeongkyu Lee (Purdue University)</i></p> <p>Naturalistic Analysis of Bidirectional Gazing During Vehicle-Pedestrian Road Crossings Author: <i>Linda Pipkorn, Massachusetts Institute of Technology</i></p> <p>The Role of eHMI in Reducing Driver Overtaking Decisions Around Low Speed Automated Vehicles Yielding to Pedestrians Authors: <i>Bradley Drahos, University of Minnesota; William Kessler, University of Minnesota; Curtis Craig, University of Minnesota; Nichole Morris, University of Minnesota</i></p> <p>Effects of Driver Individual Differences on Interaction With Driving Automation During Intersection Incursions Authors: <i>Dina Kanaan, University of Toronto; Birsan Donmez, University of Toronto</i></p>	<p>Lecture Surface Transportation Track</p>
<p>USE7: Industry Practitioners Unleashed! Ask Us Anything FLW Salon H Session Chairs: <i>Amrita Sidhu Maguire (Dell Technologies)</i> Moderators: <i>Angie Avera (Peloton Interactive)</i></p> <p>Industry Practitioners Unleashed! Ask Us Anything Panelists: <i>Amrita Maguire, Dell Technologies; Christy Harper, End to End User Research; Melissa Meingast, Hewlett Packard Enterprise; Anne-Marie McReynolds, Dell Technologies; Michael Bartha, Google</i></p>	<p>Discussion Panel Usability and System Evaluation Track</p>

<p>SF2: Human-Machine Interaction and Trust FLW Salon I Session Chair: <i>Abigail Jei (Texas A&M University)</i></p> <p>Investigating the Utility of Artificial Intelligence Models to Distinguish Between Physical and Mental Stress Among ICU Nurses Authors: <i>Farzan Sasangohar, Texas A&M University; Samira Ziyadidegan, Texas A&M University; Pratima Saravanan, Oklahoma State University</i></p> <p>Task-Allocation Decisions of Human-UAS Collaboration: Effects of Workload, Trust, and Self-Confidence Authors: <i>Yining (Elena) Zhang, Rice University; Jing Chen, Rice University; Liang Sun, New Mexico State University; Bin Hu, University of Houston; Michael Politowicz, NASA Langley Research Center; Eric Chancey, NASA Langley Research Center</i></p> <p>Failing Consistently and Expectedly: Effects of Error Consistency and Drivers' Mental Models on Trust in Automated Vehicles Authors: <i>Xiaoxuan "Alicia" Cheng, Rice University; Jing Chen, Rice University</i></p>	<p>Lecture Student Forum Track</p>
<p>HC15: Patient-Centered Care and Process Improvement in Healthcare FLW Salon I Session Chair: <i>Megan Salwei (Vanderbilt University Medical Center)</i></p> <p>Using EMG to Better Understand Patient Pain and Stress During Routine Mammography Authors: <i>Krystyna Gielo-Perczak, University of Connecticut; Riley Mcnaboe, University of Connecticut; Hugo Posada-Quintero, University of Connecticut</i></p> <p>Challenges to Integrating Portable Magnetic Resonance Imaging Systems in Emergency Medical Service Ambulances for Stroke Care Authors: <i>Arvind Kolangarakath, Clemson University; Kapil Chalil Madathil, Clemson University; Sudeep Hegde, Clemson University; Shubham Agrawal, Clemson University; Christine Holmstedt, Medical University of South Carolina; Dustin LeBlanc, Medical University of South Carolina; Jillian Harvey, Medical University of South Carolina; Maria Spampinato, Medical University of South Carolina; Todd McGeorge, Charleston County; Donna Roberts, Medical University of South Carolina</i></p> <p>Considerations for Developing Patient-centered Clinical Decision Support: Preventing Older Adult Falls after Emergency Department Visits Author: <i>Hanna J. Barton, University of Wisconsin - Madison</i></p>	<p>Lecture Health Care Track</p>
<p>HART14: Human-AI-Robot Teaming Applications Flagstaff Session Chair: <i>Sakshi Taori (Virginia Tech Polytechnic Institute and State University)</i></p> <p>Cooking and Cleaning - Exploratory Investigation of Users' Perception of How Two Domestic Service Robots (DSRs) Should Collaborate Authors: <i>Tal Oron-Gilad, Ben-Gurion University of the Negev; Yisrael Parmet, Ben-Gurion University of the Negev</i></p> <p>Joint Intelligence, Surveillance, and Reconnaissance Mission Collaboration with Autonomous Pilots Authors: <i>Richard Agbeyibor, Georgia Institute of Technology; Vedant Ruia, Georgia Institute of Technology; Jack Kolb, Georgia Institute of Technology; Karen M. Feigh, Georgia Institute of Technology</i></p> <p>Exploring Information Needs for Supervisory Control of Autonomous Ships - A Navigators' Perspective Authors: <i>Koen van de Merwe, University of South-Eastern Norway; Steven Mallam, Memorial University of Newfoundland; Salman Nazir, University of South-Eastern Norway; Øystein Engelhardtzen, DNV</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>

4:15-5:15 p.m.	
<p>XR7: Performance and Usability in Extended Reality FLW Salon A Session Chairs: <i>Elda Lilian Garza (Explico); Ronak Ranjtkumar Mohanty (University of Wisconsin - Madison)</i></p> <p>Sickness Imminent: How Mental Models of Imminent Motion Affect the Onset of Cybersickness in Virtual Reality Locomotion Authors: <i>Morgan Sinko, Texas A&M University; Caden George, Texas A&M University; Elliot Taylor, Texas A&M University; Thomas Ferris, Texas A&M University</i></p> <p>User Comfort in VR/AR Headsets: A Mathematical Investigation into Ergonomic and Functional Limitations of Eye Tracking Technology Authors: <i>Jasmine Roberts, Microsoft Research; Steven Christian, University of Nevada Reno School of Medicine</i></p> <p>Rapid Prototyping and Evaluation of External Human-Machine Interfaces for Robotaxis in Virtual Environments Authors: <i>Ahmad Albawaneh, University of Illinois Chicago; Shruthi Venkatesha Murthy, Oakland University; Zaid Abdelfattah, Oakland University; Jeffrey Kim, Troy High School; Sanjith Sambath, International Academy Central; Hyungil Kim, University of Illinois Chicago</i></p>	<p>Lecture Extended Reality Track</p>
<p>SD2: Methodologies in Practice: Nuclear Power and Autonomous Vehicles FLW Salon B Session Chairs: <i>John Paul Plummer (Basic Commerce and Industries, Inc.); Frank Lacson (Imagine Believe Realize, LLC)</i></p> <p>Development of a Sociotechnical Methodology to Support Nuclear Power Plant Modernization Author: <i>Casey Kovesdi, Idaho National Laboratory</i></p> <p>Multi-Stage Evaluation Using Gonuke Authors: <i>Ronald Boring, Idaho National Laboratory; Thomas Ulrich, Idaho National Laboratory; Roger Lew, University of Idaho</i></p> <p>Ethical Considerations for Highly Automated and Autonomous Vehicles: A Structured Hierarchy and Methodology Author: <i>Asaf Degani, General Motors</i></p>	<p>Lecture System Development Track</p>
<p>CEDM10: Uncovering the Requirements of Cognitive Work FLW Salon C Session Chair(s): <i>Jad Atweh (University of Virginia)</i></p> <p>Investigating the Impact of User Interface Designs on Expectations About Large Language Models' Capabilities Authors: <i>Felix Gröner, Arizona State University; Erin K. Chiou, Arizona State University</i></p> <p>Designing for Trust: Supporting Human-Machine Teaming in Space Domain Awareness Authors: <i>Rachel Morris, Applied Decision Science, LLC; Laura Militello, Applied Decision Science, LLC; Garrett Fitzgerald, U.S. Space Force</i></p> <p>Integrating Cognitive Work Analysis (CWA) with Adaptive Control of Thought-Rational (ACT-R) Authors: <i>Fan He, University of Waterloo; Shi Cao, University of Waterloo; Sebastian Fischmeister, University of Waterloo; Catherine Burns, University of Waterloo</i></p>	<p>Lecture Cognitive Engineering & Decision Making Track</p>

<p>ST14: Considerations of Interior and Exterior Lighting Conditions FLW Salon G Session Chairs: <i>Bridget Kelley (The MITRE Corporation); Jing Zang (Purdue University)</i></p> <p>An Examination of Driver Interpretation and Response to Snowplow Rear-End Lighting Configurations Authors: <i>Bradley Drahos, University of Minnesota; Katelyn Schwieters, University of Minnesota; Curtis Craig, University of Minnesota; Nichole Morris, University of Minnesota</i></p> <p>Alternative Emergency Vehicle Lighting Affects Traffic Behaviors Authors: <i>Kajsa Weibull, The Swedish National Road and Transport Research Institute; Björn Lidestam, The Swedish National Road and Transport Research Institute; Johanna Holm, Linköping University, Erik Prytz, Linköping University</i></p> <p>Interior Illumination Impact on Night Driving in a Driving Simulator Author: <i>Ekim Koca, University of Virginia</i></p>	<p>Lecture Surface Transportation Track</p>
<p>OE11: Fatigue FLW Salon H Session Chair: <i>Suman Chowdhury (Texas Tech University)</i></p> <p>Shoulder Muscle Activities in Backpack Vacuuming Tasks Author: <i>Stephen Bao, Washington State Department of Labor and Industries</i></p> <p>Evaluating the Impact of Collaborative Robots in E-Waste Disassembly through EMG-EMG Coherence Analysis Author: <i>Boyi Hu, University of Florida</i></p> <p>Understanding Fatigue Patterns for Dynamic Tasks: A Recurrence Model Approach Authors: <i>Zahra Vahedi, University at Buffalo; Mohammad Shakiba, University at Buffalo; Setarhe Kazemi Kheiri, University at Buffalo; Fadel Megahed, Miami University; Hongyue Sun, University of Georgia; Lora Cavuoto, University at Buffalo</i></p>	<p>Lecture Occupational Ergonomics Track</p>
<p>PP9: Detection and Measurement of Human Biometrics and Behavior FLW Salon I Session Chair: <i>Tiash Rana Mukherjee (Texas A&M University)</i></p> <p>Biosensing - Detection & Measurement of Human Biometrics & Behavior Author: <i>Dr. Maureen August, General Motors</i></p>	<p>Alt Format Perception and Performance Track</p>
<p>HC16: Improving Healthcare Safety—What’s New and Not-So-New Insights From the Safety-II Framework for Safety Improvement in Complex Adaptive Systems Grand Ballroom Session Chair: <i>Sudeep Hegde (Clemson University, Texas A&M University)</i> Moderator: <i>Mike Rayo (The Ohio State University)</i></p> <p>Improving Healthcare Safety: What New and Not-So-New Insights From the Safety-II Framework for Safety Improvement in Complex Adaptive Systems Panelists: <i>Yan Xiao, University of Texas at Arlington; Ayse Gurses, Johns Hopkins University; Nicole Werner, Indiana University, Bloomington</i></p>	<p>Discussion Panel Health Care Track</p>
<p>HART15: Future of Team Research: On Teamness and Dimensions of Variability in Teams Flagstaff Session Chair: <i>Myke Cohen (Arizona State University; Aptima, Inc.)</i></p> <p>Future of Team Research: On Teamness and Dimensions of Variability in Teams Panelists: <i>Jamie Gorman, Arizona State University; Stephen Fiore, University of Central Florida; Wayne Gray, Rensselaer Polytechnic Institute; Sounak Banerjee, Rensselaer Polytechnic Institute; Leanne Hirshfield, University of Colorado; Zachary Klinefelter, Aptima, Inc.</i></p>	<p>Discussion Panel Human AI Robot Teaming (AI) Track</p>

5:30-6:30 p.m.

Poster Session 2

McArthur Ballroom

1. Can Exoskeletons Increase Older Workers' Confidence? Implications of Exoskeletons on Aging Workers' Self-Efficacy

Authors: Sahar Khanpour, Texas Tech University; Yves Valentin, Texas Tech University; HeeSun Choi, Texas Tech University

2. Positive Self-Perceptions of Aging Are Associated With Higher Physical Activity Scores

Authors: Rachel Sutton, Wichita State University; Traci Hart, National Institute for Aviation Research (NIAR); Carryl Baldwin, Wichita State University

3. Promoting Physical Activity in Long-Term Care with Augmented Reality Experiences

Authors: Mark Chignell, University of Toronto; Debbie Barton, Centre for Innovation and Research in Aging; Lisa Fannin, Centivizer Inc.; Justine L. Estey, Centre for Innovation and Research in Aging; Danica Maillet, University of Moncton; Caroline Lovens, University of Moncton; Jalila Jbilou, University of Moncton

4. Vulnerable Communities in the Face of Heat: A Pilot Study on Perceptions, Behaviors, and Support Networks During Heat Events

Authors: Tian Yao, Iowa State University; Michael Dorneich, Iowa State University; Ulrike Passe, Iowa State University; Nicholas Schwab, University of Northern Iowa; Mary Losch, University of Northern Iowa; Caroline Krejci, University of Texas at Arlington; Jeremy Caron, City of Des Moines

5. Cognitive and Perceptual Augmentation through Neuromodulation during Fatiguing Tasks is Sex-specific

Authors: Kieran Nichols, University of Wisconsin - Madison; Ranjana Mehta, University of Wisconsin - Madison

6. Exploring The Intersection of Sex and Race within Transcranial Doppler Sonography: Implications for Future Neuroergonomic Research and Application

Authors: Chidera Azubike, Texas Tech University; Eric Greenlee, Texas Tech University

7. Measuring User Response to Attention Guidance Using the Integrated Cognitive User Assistance System

Authors: Benedict Wilkins, Royal Holloway, University of London; Szonya Durant, Royal Holloway, University of London; Elizabeth Fox, U.S. Air Force Research Laboratory; Kostas Stathis, Royal Holloway, University of London

8. A Comparative Evaluation of Ad Hoc Team Performance, Effectiveness, and Interactions in Modern Collaborative Technology

Authors: Dr. Beau Schelble, Clemson University; Beau Schelble, Clemson University; Caitlin Lancaster, Clemson University; Rohit Mallick, Clemson University; Nathan McNeese, Clemson University; Guo Freeman, Clemson University; Richard Pak, Clemson University

9. Expanding Computer-Aided Text Analysis by Using Fine-Tuned Transformers for Classification of Domain-Specific Teaming Dialogues

Authors: Peter Zukerman, DCS Corp; Adam Stiff, DCS Corp; Michael Tolston, U.S. Air Force Research Laboratory

10. Objective Metrics to Measure Non-Technical Skills of Surgeons: A Preliminary Study

Authors: Shraddha Narasimha, Purdue University; Marian Obuseh, Purdue University; Nicholas Eric Anton, Purdue University; Haozhi Chen, Purdue University; Dimitrios Stefanidis, Indiana University School of Medicine, Fort Wayne; Denny Yu, Purdue University

11. Robotic Arm Perception: an Eyetracking Study Exploring Causal Relations and Perceived Trust

Authors: Elizabeth Merwin, Florida Atlantic University; Jacqueline Hammack, Florida Atlantic University; Teresa Wilcox, Florida Atlantic University

12. Context Contributes to Two-Factor Authentication Choices

Authors: Fabrizio Chavez, Rice University; Alejandra Fernandez-Reyes, Rice University; Michael Byrne, Rice University

13. Investigating Training and Priming to Combat Phishing on Instagram Shop

Authors: Katherine Garcia, Rice University; Jing Chen, Rice University

Poster
Aging Track
Augmented Cognition Track
Children's Issues Track
Communications Track
Cybersecurity Track
Education Track
Environmental Design Track
General Sessions Track
Human AI Robot Teaming (AI) Track
Macroergonomics Track
Occupational Ergonomics Track
Student Forum Track
Surface Transportation Track
Sustainability Track
System Development Track

<p>14. Young Adults' Perception of Privacy and Security Regarding Online Healthcare Platforms <i>Authors: Shababa Matin, Rice University; Christine Petersen, Rice University; Jing Chen, Rice University</i></p>	<p>Poster Aging Track</p>
<p>15. Applying User-Centered Design to Space Mission Planning <i>Authors: Michelle Aros, Embry-Riddle Aeronautical University; Karis Cooks, Embry-Riddle Aeronautical University; Leo Materne, Embry-Riddle Aeronautical University; Jaia Huggins, Embry-Riddle Aeronautical University; Joseph Anderson, Embry-Riddle Aeronautical University; Jesika Geliga-Torres, Embry-Riddle Aeronautical University; Edison Martinez, Embry-Riddle Aeronautical University; David Canales, Embry-Riddle Aeronautical University; Barbara Chaparro, Embry-Riddle Aeronautical University</i></p>	<p>Augmented Cognition Track Children's Issues Track Communications Track Cybersecurity Track</p>
<p>16. Degrees of Freedom Should be Abandoned in Social Science Statistics <i>Author: Scott McIntyre, Arizona State University</i></p>	<p>Education Track Environmental Design Track</p>
<p>17. Effectiveness of Augmented Reality Training in a Part 147 Maintenance Technician School <i>Authors: Molly Zimmerman, Embry-Riddle Aeronautical University; Barbara Chaparro, Embry-Riddle Aeronautical University; Stephanie Mello, Embry-Riddle Aeronautical University; Christopher J Lee, Embry-Riddle Aeronautical University; Andrew R Dattel, Embry-Riddle Aeronautical University</i></p>	<p>General Sessions Track Human AI Robot Teaming (AI) Track</p>
<p>18. Emotional Ability and Its Connection with Academic Performance: An Exploratory Study on HBCU Students Post-COVID <i>Author: Hyung Nam Kim, North Carolina A&T State University</i></p>	<p>Macroergonomics Track Occupational Ergonomics Track</p>
<p>19. K-12 Outreach: Experiential Learning in Human Factors with Laparoscopic Surgery Trainer Box <i>Author: Nathan Lau, Virginia Polytechnic Institute and State University</i></p>	<p>Student Forum Track</p>
<p>20. P-Curving the Evidence: P-Values Published in Human Factors (2017-2023) <i>Authors: Jannah Moussaoui, Drexel University; Jason McCarley, Oregon State University</i></p>	<p>Surface Transportation Track</p>
<p>21. Pedagogical Agent in Math Versus Art Lessons: Impact on Learning, Perceived Workload, and Motivation <i>Authors: Reganne Miller, Georgia Institute of Technology; Richard Catrambone, Georgia Institute of Technology</i></p>	<p>Sustainability Track System Development Track</p>
<p>22. Teaching ChatGPT: Attempting to Demonstrate the Protégé Effect with a Large Language Model Learner <i>Author: Zachary Tidler, Georgia Institute of Technology</i></p>	
<p>23. Using a Self-Compassion Intervention to Increase Engineering Self-Efficacy of Women Pursuing Engineering in Higher Education <i>Authors: Taylor Kampf, Arizona State University; Heather Lum, Arizona State University</i></p>	
<p>24. Visual Instructor Presence: Impacts and Implications <i>Author: Eve Vazquez, North Carolina State University</i></p>	
<p>25. Trusting Automation: Applications in the Hospitality Industry <i>Authors: Austin Silva, Arizona State University; Erin Chiou, Arizona State University</i></p>	
<p>26. Human-Centric Metrics in Metaverse Evaluation <i>Authors: Tianhang Liu, Arizona State University; Heejin Jeong, Arizona State University</i></p>	
<p>27. Cognitive Workload Evaluation of Onsite Workers Collaborating With a Teleoperated Robot in Assembly Tasks Using Heart-Rate <i>Authors: Sakshi Taori, Virginia Tech Polytechnic Institute and State University, Sunwook Kim, Virginia Polytechnic Institute and State University; Sol Lim, Virginia Polytechnic Institute and State University; Austin Silva, Arizona State University; Erin Chiou, Arizona State University</i></p>	
<p>26. Human-Centric Metrics in Metaverse Evaluation <i>Author(s): Tianhang Liu, Arizona State University; Heejin Jeong, Arizona State University</i></p>	
<p>27. Cognitive Workload Evaluation of Onsite Workers Collaborating With a Teleoperated Robot in Assembly Tasks Using Heart-Rate <i>Author(s): Sakshi Taori, Virginia Tech Polytechnic Institute and State University, Sunwook Kim, Virginia Polytechnic Institute and State University; Sol Lim, Virginia Polytechnic Institute and State University</i></p>	
<p>28. Developing a Team Classification Scheme for Human-Agent Teaming <i>Author(s): Hyesun Chung, University of Michigan; Timothy Holder, Massachusetts Institute of Technology; Julie Shah, Massachusetts Institute of Technology; X. Jessie Yang, University of Michigan</i></p>	

<p>29. Empirical Impacts of Independent and Collaborative Training on Task Performance and Improvement in Human-AI Teams Authors: <i>Christopher Flathmann, Clemson University; Beau G. Schelble, TRACE Research Group; Anna Galeano, Clemson University</i></p>	<p>Poster Aging Track Augmented Cognition Track</p>
<p>30. Enhancing Privacy Protection for Time-Series Signals in Ergonomics Studies via Data Synthesis Authors: <i>Liwei Qing, North Carolina State University; Sehee Jung, North Carolina State University; Bingyi Su, North Carolina State University; Lu Lu, North Carolina State University; Xu Xu, North Carolina State University</i></p>	<p>Children's Issues Track Communications Track</p>
<p>31. Entropy and Trust Dynamics in Human-Autonomy Teaming Authors: <i>Xiaoyun Yin, Arizona State University; Jamie Gorman, Arizona State University</i></p>	<p>Cybersecurity Track Education Track</p>
<p>32. Establishing Human Observer Criterion for Artificial Social Intelligence Development: ASIST Study 2 Saturn Authors: <i>Lixiao Huang, Arizona State University; Matt Willett, Arizona State University; Mike Guo, Arizona State University; Aaron Teo, Arizona State University; Arya Chethikattil, Arizona State University; Myke Cohen, Arizona State University; Nancy Cooke, Arizona State University</i></p>	<p>Environmental Design Track General Sessions Track Human AI Robot Teaming (AI) Track</p>
<p>33. Evaluating Cross-Training's Impact on Perceived Teaming Outcomes for Human-AI Teams Author: <i>Caitlin Lancaster, Clemson University</i></p>	<p>Macroergonomics Track</p>
<p>34. Evaluation Approaches for Human-AI Teaming: Guidance for Practitioners Authors: <i>Patty McDermott, The MITRE Corporation; Katja Sednew, The MITRE Corporation</i></p>	<p>Occupational Ergonomics Track</p>
<p>35. Exploring ChatGPT Opinions on AI Empathy Author: <i>Lamia Alam, Johns Hopkins University</i></p>	<p>Student Forum Track</p>
<p>36. Exploring Learning Paths: Understanding the Learning Strategies of Artificial Intelligence System Users and Their Involvement in Social Forums Authors: <i>Tauseef Ibne Mamun, Michigan Technological University; Shane Mueller, Michigan Technological University</i></p>	<p>Surface Transportation Track Sustainability Track</p>
<p>37. Exploring the Taxonomy of Gaming Attributes and Feasibility of Human-AI Testbeds: An Evaluation of Empirical Studies Authors: <i>Maha Khalid, Rice University; Eduardo Salas, Rice University; Lila Berger, Rice University;</i></p>	<p>System Development Track</p>
<p>38. Game On: Pioneering Human-Machine Teaming Research in Online Gaming Arenas Author: <i>Zachary Klinefelter, Aptima, Inc.</i></p>	
<p>39. Getting Along With Autonomous Teammates: Understanding the Socio-Emotional and Teaming Aspects of Trust in Human-Autonomy Teams Authors: <i>Wen Duan, Clemson University; Nan Weng, Clemson University; Matthew Scalia, Arizona State University; Ruihao Zhang, Arizona State University; Jessica Tuttle, University of Dayton Research Institute; Xiaoyun Yin, Arizona State University; Shiwen Zhou, Arizona State University; Guo Freeman, Clemson University; Jamie Gorman, Arizona State University; Gregory Funke, U.S. Air Force Research Laboratory; Michael Tolston, U.S. Air Force Research Laboratory; Nathan McNeese, Clemson University</i></p>	
<p>40. Harmony Unleashed: The Interplay of Artificial Intelligence and Human Factors Authors: <i>Renee Jones, Spectrum Software Technology, Inc.; Claire Hayes-Watson, Visionary Consulting Partners, LLC; Brandon Beltz, Spectrum Software Technology, Inc.; Waylon Krush, ZeroTrusted.ai; Femi Fashakin, ZeroTrusted.ai; Lauren Reinerman-Jones, Southwest Research Institute</i></p>	
<p>41. High-Fidelity Worker Motion Simulation with Generative AI Authors: <i>Neel Macwan, Arizona State University; Atharva Jitendra Hude, Arizona State University; Hari Iyer, Arizona State University; Heejin Jeong, Arizona State University; Shenghan Guo, Arizona State University</i></p>	
<p>42. How Can Artificial Intelligence Team-Mates Know What Humans Want? Using Eye-Tracking Data to Infer Human Preferences in Game-Theoretic Decision Tasks Author(s): <i>Christopher Baber, University of Birmingham; Aditya Acharya, University of Birmingham; Andrew Howes, Exeter University; Leonardo Stella, University of Birmingham; Daniel Cassenti, U.S. Army DEVCOM; Alfred Yu, U.S. Army DEVCOM</i></p>	
<p>43. How Robots Might Trust Humans in Mixed Motive Situations Author(s): <i>Christopher Baber, University of Birmingham; Sagir Yusuf, University of Birmingham; Edmund Hunt, Bristol University; Mehdi Sobhani, Bristol University; Sanja Milivojevic, Bristol University</i></p>	

<p>44. Human-Centered and Explainable Artificial Intelligence in Nuclear Operations Authors: <i>Anna Hall, Idaho National Laboratory; Ronald Boring, Idaho National Laboratory; Vivek Agarwal, Idaho National Laboratory</i></p> <p>45. Human-Cobot Collaboration in Manufacturing Systems: Design for Productivity and Trust Author: <i>Nandhini Manikandan, Texas A&M University</i></p> <p>46. Improving Predictions of Cognitive States for an Adaptive Autonomous System Authors: <i>Nicole Rote, University of Colorado, Boulder; Jacob Kintz, University of Colorado, Boulder; Torin Clark, University of Colorado, Boulder</i></p> <p>47. Kaleidoscope: Detecting the Tone of the Room Author: <i>Jennifer McVay, CACI</i></p> <p>48. Mathematically Modeling the Dynamics of Trust in Automation Authors: <i>Carlos Bustamante Orellana, Arizona State University; Lucero Rodriguez Rodriguez, Arizona State University; Lixiao Huang, Arizona State University; Nancy Cooke, Arizona State University; Yun Kang, Arizona State University</i></p> <p>49. Perturbations Detection in Space-Based HMTs in Different Layers Authors: <i>Elmira Zahmat Doost, Arizona State University</i></p> <p>50. Practical Considerations for Enabling Dynamic Human-AI Teaming Across Domains Authors: <i>Adam Fouse, Aptima, Inc.; Gabriel Ganberg, Aptima, Inc.; Sylvain Bruni, Aptima, Inc.</i></p> <p>51. Preliminary Investigation of Communication Types and Strategies in Hat in Dynamic Dual-Task Situation Authors: <i>Sang-Hwan Kim, University of Michigan-Dearborn; Seungju Choi, University of Michigan, Dearborn; Dasol Han, University of Michigan, Dearborn; Yejin Lee, University of Michigan, Dearborn</i></p> <p>52. Programming by Demonstration for Dual-Arm Manipulation Author: <i>Karan Mudgal, Boston University</i></p> <p>53. Quantifying Trust Evolution Through Predictability of Compliance Behavior: A Dynamical Systems Perspective Author: <i>Matthew Peel, Arizona State University</i></p> <p>54. Systematic Literature Review on Shared Leadership to Aid Collaboration and Task Allocation in Human-Autonomy Teams Authors: <i>Anirudh More, Virginia Polytechnic Institute and State University; Nathan Lau, Virginia Polytechnic Institute and State University</i></p> <p>55. Team Error Management in Human Autonomy Teams Author: <i>Ruihao Zhang, Arizona State University</i></p> <p>56. The Effectiveness of System-Wide Trust Repair Strategies in a Multi-Component Interface Author: <i>Andrew Atchley, University of Alabama in Huntsville</i></p> <p>57. The Impact of Communication Timing and Sequencing on Team Performance: A Comparative Study of Human-AI and All-Human Teams Author: <i>Shiwen Zhou, Arizona State University</i></p> <p>58. The Impact of Lifecycle Transparency on Human Autonomy Teaming Author(s): <i>Mira Gruber, University of Central Florida</i></p> <p>59. U.S. Space Force Guardians on Multi-Agent Systems in Space: A Thematic Analysis of Interviews Author(s): <i>Lydia Melles, George Mason University; Sara Scrapchansky, U.S. Air Force Academy; Samantha Miles, U.S. Air Force Academy; Kiara Morales, U.S. Air Force Academy; Chad Tossell, U.S. Air Force Academy; Ewart de Visser, U.S. Air Force Academy; Elizabeth Phillips, George Mason University</i></p> <p>60. Uncertainty Differences in Computing Hierarchical Pedestrian Behaviors Author(s): <i>Zhengming Zhang, Purdue University; Renran Tian, North Carolina State University</i></p> <p>61. Virtual Reality Abdication: Systems for Robotic Teleoperation in Space and Other Dangerous Domains Author(s): <i>Lydia Melles, George Mason University; Elizabeth Phillips, George Mason University</i></p> <p>62. Quantifying Trust Evolution Through Predictability of Compliance Behavior: A Dynamical Systems Perspective Author(s): <i>Matthew Peel, Arizona State University</i></p>	<p>Poster</p> <p>Aging Track</p> <p>Augmented Cognition Track</p> <p>Children's Issues Track</p> <p>Communications Track</p> <p>Cybersecurity Track</p> <p>Education Track</p> <p>Environmental Design Track</p> <p>General Sessions Track</p> <p>Human AI Robot Teaming (AI) Track</p> <p>Macroergonomics Track</p> <p>Occupational Ergonomics Track</p> <p>Student Forum Track</p> <p>Surface Transportation Track</p> <p>Sustainability Track</p> <p>System Development Track</p>
---	--

<p>63. Discovering Functional Strength for Infants and Toddlers! <i>Authors: Monica Jones, University of Michigan; Sheila M. Ebert, University of Michigan, Carl Miller, University of Michigan; Brian Eby, University of Michigan; Miranda St. Amour, University of Michigan; Laura Malik, University of Michigan; Matthew P. Reed, University of Michigan</i></p> <p>64. Identifying Parenting Challenges During the COVID-19 Pandemic: A Survey-Based Study <i>Authors: Pratima Saravanan, Oklahoma State University; Nurul Ahad Choudhury, Oklahoma State University; Sachithra Karunathilake, Oklahoma State University</i></p> <p>65. Investigating the Latency of an AI Driven Facial Expression Therapy System as a Function of Illumination and Eyeglasses <i>Authors: Korak Sengupta, San Jose State University</i></p> <p>66. Preliminary Findings on the Impact of Workload on Cardiopulmonary Resuscitation Quality for Pediatric Patients with Real-time Feedback <i>Author: Tochi Oramasionwu, University of Toronto</i></p> <p>67. Credible Emergence: Leveraging Bio-Behavioral Data in Agent-Based Models for Dynamic Trust Studies <i>Authors: Morgan Klaeser, University of Wisconsin – Madison; Ranjana Mehta, University of Wisconsin – Madison</i></p> <p>68. Return On Investment Methods for Large-Scale Systems Interventions; Systems Thinking, How Much Does it Pay? <i>Authors: Dan Nathan-Roberts, San Jose State University; Dave Moore, DMA</i></p> <p>69. Using the IMPRINT Tool to Develop a Simulated Manpower Model for Navy Vessel Acquisition <i>Authors: Joergen Eriksen, Naval Postgraduate School; Nita Shattuck, Naval Postgraduate School; Panagiotis Matsangas, Naval Postgraduate School; Christopher McClernon, Naval Postgraduate School; Frode Mjelde, Royal Norwegian Naval Academy</i></p> <p>70. An Investigation Into the Practicality of Employing Immersive Virtual Reality to Evaluate Ergonomic Risks Associated With the Peri-Care Task <i>Authors: Richard Stone, Iowa State University; Fatima Mgaedeh, Iowa State University; Samer Alhebaishi, Iowa State University; Braden Westby, Iowa State University; Colten Fales; Varun Srikrishnan, Iowa State University</i></p> <p>71. Can Exoskeletons Support Patient Handling Tasks Performed by Emergency Medical Technicians? <i>Authors: Jangho Park, Clemson University; Jason Moats, Texas A&M University; Divya Srinivasan, Clemson University</i></p> <p>72. Computer Vision Embedded Post-Processing Algorithm on Lifting Risks <i>Author: Denny Yu, Purdue University</i></p> <p>73. Digital Twin for Amputees: A Bidirectional Interaction Modeling and Prototype with Convolutional Neural Network <i>Author(s): Junho Park, Santa Clara University</i></p> <p>74. Evaluating Practices to Reduce Work Related Injuries in Healthcare Workers: A Review <i>Author(s): Jason Stoltz, University of Rhode Island; Caitlin Murray, University of Rhode Island; Jesse Duroha, University of Rhode Island</i></p> <p>75. Exoskeleton Use During Lifting Tasks May Impair Physical and Cognitive Performances Among Novice Users <i>Author(s): Daniel Leibman, Texas Tech University; HeeSun Choi, Texas Tech University</i></p> <p>76. Field Assessment of Static Postures and the Frequency of Trunk and Upper Arms Movements Among Construction Workers <i>Author(s): Micaela Porta, University of Cagliari</i></p> <p>77. How Effective are Exoskeletons at Reducing Muscular Demands During Repetitive Trunk Bending Tasks? <i>Author(s): Pranav Madhav Kuber, Rochester Institute of Technology; Ehsan Rashedi, Rochester Institute of Technology</i></p> <p>78. Investigating Factors Influencing Construction Worker Productivity: The Case of the Middle East <i>Author(s): Karim Zahed, American University of Beirut</i></p>	<p>Poster</p> <p>Aging Track</p> <p>Augmented Cognition Track</p> <p>Children's Issues Track</p> <p>Communications Track</p> <p>Cybersecurity Track</p> <p>Education Track</p> <p>Environmental Design Track</p> <p>General Sessions Track</p> <p>Human AI Robot Teaming (AI) Track</p> <p>Macroergonomics Track</p> <p>Occupational Ergonomics Track</p> <p>Student Forum Track</p> <p>Surface Transportation Track</p> <p>Sustainability Track</p> <p>System Development Track</p>
---	--

<p>79. Investigating Manual Labor Workers' Perceptions of Exoskeletons using the Wearable Robot Perception (WeaR-P) Questionnaire Authors: Yves Valentin, Texas Tech University; Thi Le, Texas Tech University; HeeSun Choi, Texas Tech University</p>	<p>Poster Aging Track Augmented Cognition Track</p>
<p>80. Noise in the Vote-by-Mail Process: A California Case Study Authors: Leonie S. Otte, University of Rhode Island; Gretchen A. Macht, University of Rhode Island</p>	<p>Children's Issues Track Communications Track</p>
<p>81. Package Delivered: Ergonomic Intervention for Delivery Drivers Authors: Nicholas Horn, Embry-Riddle Aeronautical University; McKenna Tooker, Naval Postgraduate School</p>	<p>Cybersecurity Track Education Track</p>
<p>82. Relationship between Head Tilt Angle and Smartphone Tilt Angle Authors: Jiwon Ryu, Ulsan National Institute of Science & Technology; Gwanseob Shin, Ulsan National Institute of Science & Technology; Yunbeom Nam, Ulsan National Institute of Science & Technology</p>	<p>Environmental Design Track General Sessions Track</p>
<p>83. The Effects of Soft and Rigid Back Support Exoskeletons on Muscle Activity and User Perception During Simulated Automotive Assembly Authors: Zeinab Kazemi, Clemson University; Divya Srinivasan, Clemson University</p>	<p>Human AI Robot Teaming (AI) Track Macroergonomics Track</p>
<p>84. The Readiness Level of Industry 4.0 Applications and Assistance to Workers: A Systematic Literature Review Authors: Lucie Outlaw, Auburn University; Yadrianna Acosta-Sojo, Auburn University; Gregory Purdy, Auburn University; Mark Schall, Auburn University</p>	<p>Occupational Ergonomics Track Student Forum Track</p>
<p>85. Using Wearable Sensors and Deep Learning to Identify Origin and Destination of Lifts Authors: Yishu Yan, University of California, Berkeley; Jesse Jacobs, Risk Control Services, Liberty Mutual Insurance; Alan Barr, University of California, San Francisco; Grace O'Connell, University of California, Berkeley; Carisa Harris Adamson, University of California, San Francisco</p>	<p>Surface Transportation Track Sustainability Track</p>
<p>86. Visual Analysis within Three-Dimensional Hand Scans to Define Hand Envelopes Authors: Vanessa Segura Duque, University of Minnesota; Tse-Hsun Kuo, University of Minnesota; Kelsey Hitt, Toyota; Peeyush Kumar, Toyota; Dr. Linsey Griffin, University of Minnesota</p>	<p>System Development Track</p>
<p>87. Looking to the Future: Design of a Shore-Based Decision Support for Maritime Traffic Monitoring Author: Lilian Susanne Befort, Fraunhofer FKI</p>	
<p>88. An Analysis of Online Peer Support Groups for Informal Caregivers of Patients with Parkinson's Disease Authors: Sarvesh Sawant, Clemson University; Nandana Nair, Clemson University; Caroline Clayton, Clemson University; Anirudh Vemuri, Clemson University; Avantika Anoop, Clemson University; Agastya Sharma, Clemson University; Kapil Chalil Madathi, Clemson University</p>	
<p>89. Evaluating a Novel Measure to Parse the Sources of Subjective Cognitive Workload: The Task, Environment, Aid Scale Author(s): Frank Lodge, North Carolina State University; Anne Collins McLaughlin, North Carolina State University</p>	
<p>90. Human Response Performance to Vibrotactile Alerts: A Scoping Review Author(s): James Parkinson, Purdue University</p>	
<p>91. In ChatGPT we Trust: Foundations for an Empirically Determined Scale of Trust in Generative AI Chatbots Author(s): Douglas Jonidis, North Carolina State University</p>	
<p>92. No Reaction to Distraction: An Investigation into Diminished Reality Author(s): Imani Murph, North Carolina State University; Anne Collins McLaughlin, North Carolina State University</p>	
<p>93. On Enhancing General Aviation Safety: The Integration of Generative AI in Preflight Weather Planning Author(s): Stephen Woods, Embry-Riddle Aeronautical University; Elizabeth Blickensderfer, Embry-Riddle Aeronautical University</p>	
<p>94. Perceptions of Autonomous Robot Teammates During Field Operations Author(s): Trevor Patten, North Carolina State University; Rachel Benton, North Carolina State University; Ericka Rovira, United States Military Academy; Susan Mohammed, Pennsylvania State University; Anne Collins McLaughlin, North Carolina State University</p>	

<p>95. Running as a Woman: The Potential Impact of Geo-Tracking Technology on Perceptions of Safety in Trail Running Author: Rosemary O'Neal, North Carolina State University</p>	<p>Poster Aging Track</p>
<p>96. The Influence of Operator Trust on Human-Robot Interaction Within Teams Authors: Heidi Segars, North Carolina State University; Anne Collins McLaughlin, North Carolina State University; Ericka Rovira, U.S. Military Academy at West Point; Susan Mohammed, Pennsylvania State University</p>	<p>Augmented Cognition Track Children's Issues Track</p>
<p>97. Transforming Learning: Assessing the Efficacy of an AI Psychology Tutor Built Using GPT-4 Turbo, Prompting, and Retrieval-Augmented Generation Author: Joseph J. Slade, Oregon State University</p>	<p>Communications Track Cybersecurity Track</p>
<p>98. A Evaluation Tool for the Real-Time Motion Sickness in Driving Environment Authors: Myung Hwan Yun, Seoul National University; Yein Song, Seoul National University; Jiyeon Shin, Seoul National University; Jungyeon Park, Seoul National University; Jaehoo Bae, Seoul National University; Cai Wang, Seoul National University; Sangwoo Bahn, Kyung Hee University</p>	<p>Education Track Environmental Design Track</p>
<p>99. A Process for Deriving Heartrate Variability and its Comparison to Self-Reported Driver State Authors: Cal Heffernan, Ford Motor Company; Mansoor Nasir, Ford Motor Company; Ksenia Kozak, Ford Motor Company</p>	<p>General Sessions Track Human AI Robot Teaming (AI) Track</p>
<p>100. A Survey on Perceptions of Smartwatch Haptic Feedback for Enhancing Automated Vehicle Takeover Decisions Authors: Wei-Hsiang Lo, San Jose State University; Gaojian Huang, San Jose State University</p>	<p>Macroergonomics Track Occupational Ergonomics Track</p>
<p>101. A Systematic Review and Meta-Analysis of Older Adults' Cognitive Impairments and Effects on Road Safety Authors: Yunru Zhang, Northeastern University; Wenchao Zhu, Northeastern University; Yan Xiao, University of Texas at Arlington; Arthur Kramer, Northeastern University; Yingzi Lin, Northeastern University</p>	<p>Student Forum Track Surface Transportation Track</p>
<p>102. An Analysis of Detectability of Vulnerable Road Users Using Fuzzy Signal Detection Theory Authors: Wentong Yang, Nagoya University; Shota Matsubayashi, Nagoya University; Kazuhisa Miwa, Nagoya University; Shinya Kitayama, Denso Corporation; Manabu Otsuka, Denso Corporation; Koji Hamada, Denso Corporation</p>	<p>Sustainability Track System Development Track</p>
<p>103. Angry Drivers, Please Calm Down: Regulating Driver Emotions to Enhance Driving Safety Authors: Saya Susindar, Texas A&M University; Thomas Ferris, Texas A&M University</p>	
<p>104. Assessing Meaningful Visual and Tactile Feedback for Effective Automated Vehicle Takeover by Hearing and Non-Hearing Drivers Authors: Aries Chu, San Jose State University; Wei-Hsiang Lo, San Jose State University; Gaojian Huang, San Jose State University</p>	
<p>105. Capturing the Mind: Non-Driving-Related Tasks as a Window into Cognitive Engagement in Automated Driving Author(s): Xiaolu Bai, North Carolina State University; Jing Feng, North Carolina State University</p>	
<p>106. Contextual Differences and Attentiveness in Urban Streets Author(s): Patricia Tice, ProFound Insights, Inc.; Peter Hancock, University of Central Florida; Sudipata dey Tirtha, University of Central Florida</p>	
<p>107. Driver Training and Socioeconomic Status: A Human-In-The-Loop Driving Simulator Evaluation Author(s): Jeffrey Glassman, Old Dominion University</p>	
<p>108. Effect of Caregiver Burden and Acute Stress on Driving Performance Author(s): Myriam Oliver; Patricia DeLucia, Rice University; Christopher P. Fagundes, Rice University</p>	
<p>109. Effects of Automation Exposure and Non-Driving Related Tasks on Manual Driving Performance after Takeover of Manual Control Author(s): LeGrand Dudley, Rice University; Patricia DeLucia, Rice University</p>	
<p>110. Effects of Automation Reliability on Driver Vigilance Author(s): Ashley Millard, Texas Tech University; Eric Greenlee, Texas Tech University;</p>	
<p>111. Is it Better Now? Using Swift Trust and Priming to Determine How Update Information Impacts Trust in Automation Author(s): Scott Mishler, Old Dominion University; Jing Chen, Rice University</p>	

<p>112. Looking Back on Forward Collision Warnings: A Review of Perception Response Times from Empirical Studies Authors: <i>Iiona Scully, Exponent, Inc.; Peter Shlanta, Exponent, Inc.</i></p> <p>113. Managing Attention During Virtual Meetings in Partially-Automated Vehicles Author: <i>David Prendez, University of Washington</i></p> <p>114. Simultaneous Remote Monitoring of Multiple Automated Vehicles Authors: <i>Lane Shoffner, North Carolina State University; Jing Feng, North Carolina State University</i></p> <p>115. The Intersection of Voice Assistants and Autonomous Vehicles: A Scoping Review Authors: <i>Aries Chu, San Jose State University; Gaojian Huang, San Jose State University</i></p> <p>116. Use of Remote Focus Groups to Improve Inclusive Design Practice Authors: <i>Elham Entezarizarch, University at Buffalo; Victor Paquet, University at Buffalo; Jordana Maisel, University at Buffalo</i></p> <p>117. Workload Estimation Using Facial Expression Analysis Authors: <i>Kayla Riegner, US Army Ground Vehicle System Center; Christopher Mikulski, US Army Ground Vehicle System Center</i></p> <p>118. Human Factors and Sustainability: The New Sustainability Technical Group Welcomes Collaborations Authors: <i>Daniel Gottesman, STG; Amrita Maguire, Dell Technologies</i></p> <p>119. Integrating Positive Train Control (PTC) with Grade Crossing Systems for Enhanced Rail Safety Authors: <i>Yalda Khashe, University of Southern California; John Ferrant, University of Southern California; Alex Wang, University of Southern California</i></p>	<p>Poster</p> <p>Aging Track</p> <p>Augmented Cognition Track</p> <p>Children's Issues Track</p> <p>Communications Track</p> <p>Cybersecurity Track</p> <p>Education Track</p> <p>Environmental Design Track</p> <p>General Sessions Track</p> <p>Human AI Robot Teaming (AI) Track</p> <p>Macroergonomics Track</p> <p>Occupational Ergonomics Track</p> <p>Student Forum Track</p> <p>Surface Transportation Track</p> <p>Sustainability Track</p> <p>System Development Track</p>
---	--

FRIDAY, SEPTEMBER 13	
8:30-9:30 a.m.	
<p>PD5: User-Focused Design FLW Salon A Session Chair: <i>Karim Zahed (Texas A&M University)</i></p> <p>User-Centered Design in the Face of Limited User Access Authors: <i>Dr. Werner Born, Aptima, Inc.; Isabel Erickson, Aptima, Inc.; Susannah Hoch, Aptima, Inc.;</i></p> <p>Assessing the Individual Experience of Comfort Authors: <i>Missie Smith, Meta; Saman Madinei, Meta;</i></p> <p>Towards the Design of an Ultra-Light Car Seat with a Reclining Back Rest Author: <i>Peter Vink, Delft University of Technology;</i></p>	<p>Industry/Practitioner</p> <p>Case Study</p> <p>Lecture</p> <p>Product Design Track</p>
<p>EDU6: What Does It Mean To Be Inclusive? A Conversation With the HFES Council of Affinity Groups (COAG) FLW Salon B Session Chair: <i>Dominique Engome Tchupo (University of Rhode Island)</i></p> <p>What Does it Mean to be Inclusive? A Conversation with the HFES Council of Affinity Groups (COAG) Authors: <i>Myounghoon Jeon, Virginia Tech; Jules Trippe; Myke Cohen, Arizona State University; Jay Kim, Oregon State University; Abigail R. Wooldridge, University of Illinois Urbana-Champaign; Heather C. Lum, Arizona State University;</i></p>	<p>Discussion Panel</p> <p>Education Track</p>

<p>CEDM11: Cognition in Training and Learning FLW Salon C Session Chair: <i>James Hughes (University of Connecticut)</i></p> <p>Gender-Related Preferences for Learning by Tinkering: Time for an Update? Authors: <i>Amanda K. Newendorp, Iowa State University; Stephen B. Gilbert, Iowa State University;</i></p> <p>Assessing the Relationship Between Learning Stages and Prefrontal Cortex Activation in a Psychomotor Task Authors: <i>Kendric Ortiz, University of New Mexico; Jacob Hunter, Purdue University; Adam Thorpe, University of Texas at Austin; Madeleine Yuh, Purdue University; Tahira Reid, Pennsylvania State University; Neera Jain, Purdue University; Meeko Oishi, University of New Mexico;</i></p> <p>Online Self-Confidence Calibration for Improving Learning Outcomes via Intelligent Tutoring Systems Authors: <i>Madeleine Yuh, Purdue University; Neera Jain, Purdue University;</i></p>	<p>Lecture Cognitive Engineering & Decision Making Track</p>
<p>USE8: Usability Potpourri FLW Salon D Session Chair: <i>Susan Kotowski (University of Cincinnati)</i></p> <p>Measured Perceived Quality in Vehicle Cockpit Interiors Using Virtual Reality Authors: <i>Sukayna Hamka, University of Michigan, Dearborn; Nishanth Prabhu Kurunthachalam, University of Michigan, Dearborn; Sang-Hwan Kim, University of Michigan, Dearborn</i></p> <p>Ideal Connected Home Configurations: Insights from Expert Users Authors: <i>Shabnam FakhrHosseini, Massachusetts Institute of Technology; Matthew Milton, Massachusetts Institute of Technology; Chaiwoo Lee, Massachusetts Institute of Technology; Joseph Coughlin, Massachusetts Institute of Technology</i></p> <p>Impacts of Medical Webpage Usability on Patient Decision Making Author: <i>Ruihao Zhang, Arizona State University</i></p>	<p>Lecture Usability and System Evaluation Track</p>
<p>ST15: Driver Perception in Traffic Modeling, Roadway Designs, and Cyclist Interactions FLW Salon G Session Chair: <i>Sibibalan Jeevanandam (Purdue University); Wei-Hsiang Lo (San Jose State University)</i></p> <p>The Geometric Scale of an Urban Space—Neuro-Perceptual Limitations for Face-to-Face Driver Behavior Authors: <i>Patricia Tice, ProFound Insights, Inc.; Peter Hancock, University of Central Florida</i></p> <p>Efficiency of Group Movement Within Human Risk Perception Author: <i>Shota Matsubayashi, Nagoya University</i></p> <p>Effects of Cell Phone Conversation on Drivers' Perceptions of Cyclists' Intentions Authors: <i>Christine Petersen, Rice University; Patricia DeLucia, Rice University</i></p>	<p>Lecture Surface Transportation Track</p>
<p>OE12: Exoskeleton IV FLW Salon H Session Chair: <i>Jay Kim (Oregon State University)</i></p> <p>Predicting Perceived Back Fatigue During Exoskeleton Supported Trunk Bending Tasks Using Machine Learning Authors: <i>Pranav Madhav Kuber, Rochester Institute of Technology; Abhineet Rajendra Kulkarni, University of Florida; Ehsan Rashedi, Rochester Institute of Technology</i></p> <p>The Impact of Wearing an Arm Support Exoskeleton on Balance During a Step-Down Maneuver Authors: <i>Dr. Federico Arippa, University of Cagliari; Dr. Alan Barr, University of California, Berkeley; Dr. Brandon Phillips, University of California, Berkeley; Dr. Sunwook Kim, Virginia Tech; Maury A. Nussbaum, Virginia Tech; Carisa Harris-Adamson, University of California, Berkeley</i></p> <p>Biomechanical Effects of Powered vs. Passive Back-Support Exoskeletons in Static Tasks Authors: <i>Rahul Narasimhan Raghuraman, Clemson University; Jackie Cha, Clemson University; Divya Srinivasan, Clemson University</i></p>	<p>Lecture Occupational Ergonomics Track</p>

<p>XR8: The Eyes Have It: Visual Considerations in Extended Reality FLW Salon I Session Chair: <i>Chidubem Nuela Enebechi (Purdue University); Jasmine Roberts (Microsoft)</i></p> <p>Time Pressure Detection in a Visual Search Task Using Eye Tracking Metrics: A Virtual Reality Study Authors: <i>Mohamad El Iskandarani, University of Virginia; Sara Lu Riggs, University of Virginia; Jad Atweh, University of Virginia</i></p> <p>Improving Task Performance in Robotic Teleoperation Using 3D Visual Cues Authors: <i>Eshwara Prasad Sridhar, University of Texas at Arlington; Vibhav Nirmal, University of Texas at Arlington; Mahmudur Rahman, University of Texas at Arlington</i></p> <p>Using Eye-Tracking to Evaluate Novel Augmented Reality Applications for Maritime Operations Authors: <i>Dr. Steven Mallam, Memorial University of Newfoundland; Amin Attarzadeh, Memorial University of Newfoundland; Akash Samanta, Memorial University of Newfoundland; Ankan Bhattacharjee, Memorial University of Newfoundland</i></p>	<p>Lecture Extended Reality Track</p>
<p>PP10: Discriminator: Exploring Highlighting Techniques in Vast Natural Image Databases FLW Salon J</p> <p>Discriminator: Exploring Highlighting Techniques in Vast Natural Image Databases Authors: <i>Zeth duBois, University of Idaho; Steffen Werner, University of Idaho</i></p>	<p>Demo Perception and Performance Track</p>
<p>HC17: Workload in Healthcare Grand Ballroom Session Chair: <i>Md Shafiqul Islam (Virginia Polytechnic Institute and State University)</i></p> <p>A Safety II Approach to NICU Nursing Workload: Unanticipated Workload Challenges and Self-Initiated Mitigation Strategies Author: <i>Lamia Alam, Johns Hopkins University</i></p> <p>Identifying Emergency Physicians' Strategies for Mitigating Workload Transfers during Inter-Shift Patient Handoffs – A Qualitative Analysis Authors: <i>Steven Foster, Clemson University; Sudeep Hegde, Clemson University</i></p> <p>Scheduled or Self-Determined: Evaluating the Optimal Implementation of the OR-Stretch, an Intraoperative Microbreak for Surgeons Author: <i>Hamid Norasi, Mayo Clinic</i></p>	<p>Lecture Health Care Track</p>
<p>8:30-10:45 a.m.</p>	
<p>Human Factors Extended Reality Showcase Flagstaff Session Chairs: <i>Stephanie Fussell (Kent State University); Randall Spain (U.S. Army DEVCOM Soldier Center)</i></p> <p>Human Factors Extended Reality Showcase Authors: <i>Randall Spain, US Army DEVCOM; Stephanie Fussell, Kent State University; Karen Chen, NCSU; Jessyca Derby, Design Interactive; Lilian Garza, Explico; Fangyuan Cheng, NCSU</i></p>	<p>Demonstrations Extended Reality Track</p>
<p>9:45-10:45 a.m.</p>	
<p>SU3—Roundtable Discussions: Are Humans Still Necessary? FLW Salon A Session Chair: <i>Julie Gilpin-McMinn (Spirit AeroSystems)</i></p> <p>Roundtable Discussions: Are Humans Still Necessary? Authors: <i>Judi E. See, Sandia National Laboratories; Julie Gilpin-McMinn, Spirit AeroSystems</i></p>	<p>Discussion Panel Sustainability Track</p>

<p>LBR4: Late-Breaking 4 FLW Salon B Session Chair: <i>Krystyna Gielo-Perczak (University of Connecticut); Vickie Nguyen (Bold Insight)</i></p> <p>Innovation and Technology Adoption in Community Hospitals: A Human Factors Based Investigation Authors: <i>Sana Allana, University of Waterloo; Luiza Dos Santos, Federal University of Rio de Janeiro; Ayesha Waseem, University of Waterloo; Carla Girolametto, Grand River Hospital; Catherine Burns, University of Waterloo;</i></p> <p>Approaches to Decision Making Vary Across Types of Emergent Patient Scenarios Authors: <i>Shilo Anders, Vanderbilt University Medical Center; Megan Salwei, Vanderbilt University Medical Center; Duran (Tram) Huang, University of Pittsburgh; Carrie Reale, Vanderbilt University Medical Center; Laura Militello, Applied Decision Science, LLC; Christen Sushereba, Applied Decision Science, LLC; Janelle Faiman, Vanderbilt University Medical Center; Meredith Kingeter, Vanderbilt University Medical Center; Elizabeth Sinz, West Virginia University; Jeffery Cooper, Harvard Medical School; Amanda Burden, Cooper Medical School of Rowan University; Michael Andreae, University of Utah School of Medicine; John Rask, University of New Mexico; Laurence C Torsher, Mayo Clinic; Arna Banerjee, Vanderbilt University Medical Center; Adam I Levin, Mt Sinai School of Medicine; David Gaba, Stanford University; Jason Slagle, Vanderbilt University Medical Center; Matthew B Weinger, Vanderbilt University Medical Center</i></p> <p>Optimization of the Design of NIV Pediatric Masks through Anthropometric Analysis at Different Ages Authors: <i>Vanessa Segura-Duque, University of Minnesota; Linsey Griffin, University of Minnesota;</i></p> <p>Use Forces by Interventional Cardiologists: Filling Gaps in Force Data for Catheter-Based Cardiovascular Device Design Authors: <i>Grainne Tyrrell, Health Research Institute, University of Limerick; Eoin White, University of Limerick; Leonard O'Sullivan, University of Limerick; Donna Curley, Medtronic;</i></p> <p>Exploring the System-of-use and Stakeholder Needs and Barriers for Pediatric Non-invasive Devices within Inpatient and Outpatient Healthcare Systems Authors: <i>Emily Seifert, University of Minnesota; Linsey Griffin, University of Minnesota; Gwennyth Fischer, University of Minnesota Masonic Children's Hospital; Lexie Goertzen, University of Minnesota Masonic Children's Hospital</i></p> <p>Relationship Between Anthropometric Traits and Perceived Fit, Comfort, and Adjustability in Shoulder and Back Exoskeletons among Female Users Authors: <i>Hanwen Wang, Texas A&M University; Hongwei Hsiao, Texas A&M University;</i></p>	<p>Late-Breaking Results Lectures</p>
<p>CEDM12: Decision Making FLW Salon C Session Chair: <i>Deborah Asabere (The Ohio State University)</i></p> <p>Evaluation of Risk Shift Between Individuals and Teams in an Operational Task Authors: <i>Hannah Ragsdale Lee, Iowa State University; Michael Dorneich, Iowa State University</i></p> <p>Decision Fatigue Framework: Unveiling the Causes and Consequences of Decision Fatigue through Systematic Review Authors: <i>Pratima Saravanan, Oklahoma State University; Nurul Ahad Choudhury, Oklahoma State University</i></p> <p>Detail Matters: Drivers' Responses to Flood Warnings in Simulated Driving Authors: <i>Katherine Garcia, Rice University; Jing Chen, Rice University</i></p>	<p>Lecture Cognitive Engineering & Decision Making Track</p>

<p>T5: Enhancing Training Through Technology FLW Salon D Session Chair: <i>Jayde King (U.S. Air Force Research Laboratory)</i></p> <p>Enhancing Colonoscopy Training Through Simulation-Based Learning: Designing and Evaluating an Interactive Graphical User Interface Authors: <i>Isra Elsaadany, Pennsylvania State University; Hang Ling, Pennsylvania State University; Okba Alenezy, Pennsylvania State University; Divyaa Vivekanandan, Pennsylvania State University; Jessica Gonzalez-Vargas, Pennsylvania State University; Jason Moore, Pennsylvania State University; Scarlett Miller, Pennsylvania State University</i></p> <p>Unlocking the Potential of Augmented Reality: Investigating its Impact on Laparoscopic Training Authors: <i>Isra Elsaadany, Pennsylvania State University; Jessica Gonzalez-Vargas, Pennsylvania State University; Jason Moore, Pennsylvania State University; Scarlett Miller, Pennsylvania State University</i></p> <p>Implementation and Evaluations of Visual Scaffolding to Support Attentional Management Training Authors: <i>Angelia Sebok, TIER1 Performance; Noah Kreischer, Atlas Air; Christopher Wickens, Colorado State University; Benjamin Clegg, Montana State University</i></p>	Lecture Training Track
<p>ST16: Novel Methods for Vehicle Designs, Interactions, and Accident Analysis FLW Salon G Session Chair: <i>Jing Zang (Purdue University); Gayoung Ban (Virginia Polytechnic Institute and State University)</i></p> <p>A Queuing Model Based Rapid Evaluation Method for Automotive Control Design Authors: <i>Xiaolin Zuo, Beijing Institute of Technology; Jiawei Pan, Tsinghua University; Changxu Wu, Tsinghua University</i></p> <p>Analyzing Human-Automation Interdependence Based on the Teammate, Situational Properties, and Interaction Sequence Authors: <i>Hansol Rheem, University of Wisconsin - Madison; Joonbum Lee, University of Wisconsin - Madison; John D. Lee, University of Wisconsin - Madison; Joshua E. Domeyer, Toyota Collaborative Safety Research Center</i></p> <p>An Integrated Approach to Visualizing a Nighttime Accident Scene for Human Factors Analysis Authors: <i>David Fortenbaugh, Esi; Katie Zakutansky, Esi; Manolo Meza-Arroyo, Esi; Dan Kruger, Esi;</i></p>	Industry/ Practitioner Case Study Lecture Surface Transportation Track
<p>OE13: Workplace Improvements FLW Salon H Session Chair: <i>Suman Chowdhury (Texas Tech University)</i></p> <p>Modifying Extension Ladder Configurations Improve Stepping Safety During Climbing Authors: <i>Violet Williams, University of Pittsburgh; Mark Redfern, University of Pittsburgh; Kurt Beschorner, University of Pittsburgh</i></p> <p>Field Testing of the EMS LiftKit: A R2P Study Authors: <i>Steve Lavender, The Ohio State University; Carolyn Sommerich, The Ohio State University; Anas Kachlan, The Ohio State University</i></p> <p>Mayo Clinic's Alignment to MNOSHA's 2023 Ergonomics Statute Author: <i>Nicholas Smith, Mayo Clinic</i></p>	Lecture Occupational Ergonomics Tract

<p>SF3: Ethical and Educational Considerations in Technology FLW Salon I Session Chair: <i>Sylvain Bruni (Aptima, Inc.)</i></p> <p>Investigating the Impact of College Students' Stress on Heart Rate Behaviors and Rhythms Authors: <i>Farzan Sasangohar, Texas A&M University; Samira Ziyadidegan, Texas A&M University; Amir Hossein Javid, Texas A&M University</i></p> <p>Examining the Ethical Considerations of Humanitarian Drones Authors: <i>Savannah Bradley, Arizona State University; Erin Chiou, Arizona State University</i></p> <p>Improving Pedestrian Conspicuity at Night: Testing the Efficacy of an Educational Intervention Authors: <i>Morgan McCree, Clemson University; Richard Tyrrell, Clemson University; Joanne Wood, Queensland University of Technology; Patrick Rosopa, Clemson University</i></p>	<p>Lecture Student Forum Track</p>
<p>S7: Systems Approach to Safety and Learning FLW Salon J Session Chair: <i>Atif Ashraf (Texas A&M University); Olugbenga Gideon (University of Idaho, Idaho National Laboratory)</i></p> <p>Identification of Organizational Factors Affecting the Safety of Operations: Foundation for Extending Human Reliability Analysis Methods Authors: <i>Maryam Tabibzadeh, California State University, Northridge; Davit Zaratsyan, California State University, Northridge; Hoda Jafary, University of California, Los Angeles; Tingting Cheng, University of California, Los Angeles; Marilia Ramos, University of California Los Angeles; Ali Mosleh, University of California, Los Angeles</i></p> <p>Evaluating the Effectiveness of Game-Based Learning for Long-Term Knowledge Retention Authors: <i>Sameeran Kanade, Purdue University; Sogand Hasanzadeh, Purdue University; Brandon Pitts, Purdue University; Behzad Esmaeili, Purdue University; Vincent Duffy, Purdue University</i></p> <p>Evaluating Safety Concerns for Pediatric Mental and Behavioral Health Patients and Providers in the Emergency Department: A Systems Perspective Authors: <i>Sahar Mihandoust, Clemson University; Anjali Joseph, Clemson University; Ann Dietrich, Prisma Health; Mina Shokrollahi Ardekani, Clemson University; Devi Soman, Clemson University; Monica Gripko, Clemson University</i></p>	<p>Lecture Safety Track</p>
<p>HART16: Robots and Human-AI-Robot Teaming Grand Ballroom Session Chair: <i>Anirudh More (Virginia Polytechnic Institute and State University)</i></p> <p>Exploring Cognitive Workload Changes in Teleoperators: Collaboration with On-Site Workers and Robots in Assembly Tasks Authors: <i>Saman Jamshid Nezhad Zahabi, Virginia Polytechnic Institute and State University; Sakshi Taori, Virginia Polytechnic Institute and State University; Sunwook Kim, Virginia Polytechnic Institute and State University; Sol Lim, Virginia Polytechnic Institute and State University</i></p> <p>Evaluating Human-Robot Teaming Strategies for Disaster Response Operations with a Functional Network Model of Work Authors: <i>Salvatore Hargis, The Ohio State University; Martijn IJtsma, The Ohio State University</i></p> <p>Let's Get Physical: The Influence of Embodiment on Industrial Human-Robot Interaction Authors: <i>Johanna zu Putlitz, Technische Universität Berlin; Eileen Roesler, George Mason University</i></p>	<p>Lecture Human AI Robot Teaming (AI) Track</p>

11:00 a.m.-12:00 p.m.

Unconference

FLW Salon E/F

Join fellow attendees in a casual setting to share what you are grateful for and recognize your peers! This session will start with an interactive feedback session using the KISS framework (Keep, Improve, Start, Stop) for ASPIRE attendees to share how the event can be bettered for 2025. The second half of the session invites all to come and share what you are grateful for and recognize your peers! From expressing pride in completing a large human factors study or signing a big client for your practice, to submitting your thesis or dissertation or delivering a new human-centered product to market, let HFES members know what brightens your professional life. Recognize your colleagues and partners for their accomplishments and service to our professional field. Unsung heroes and those working behind the scenes deserve their time in the spotlight. This is it! Every participant will earn a commemorative Unconference Kudos pin and those recognized by their peers will receive a small gift as a token of appreciation from a grateful community.

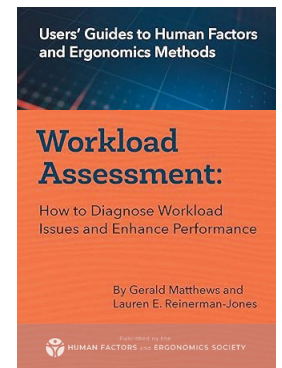
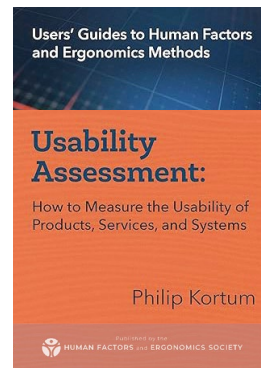
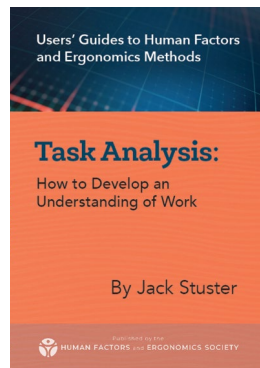
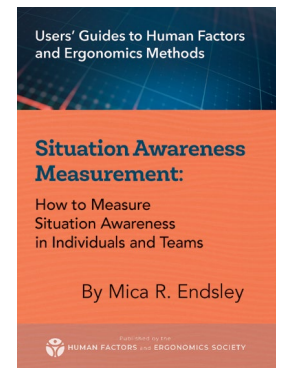
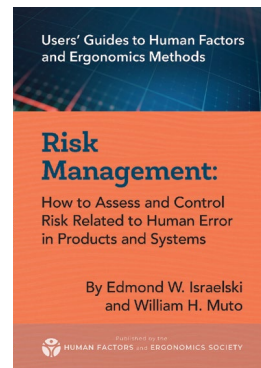
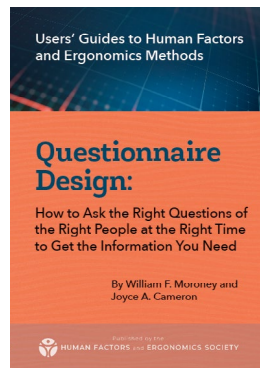
Special Session

USERS' GUIDES

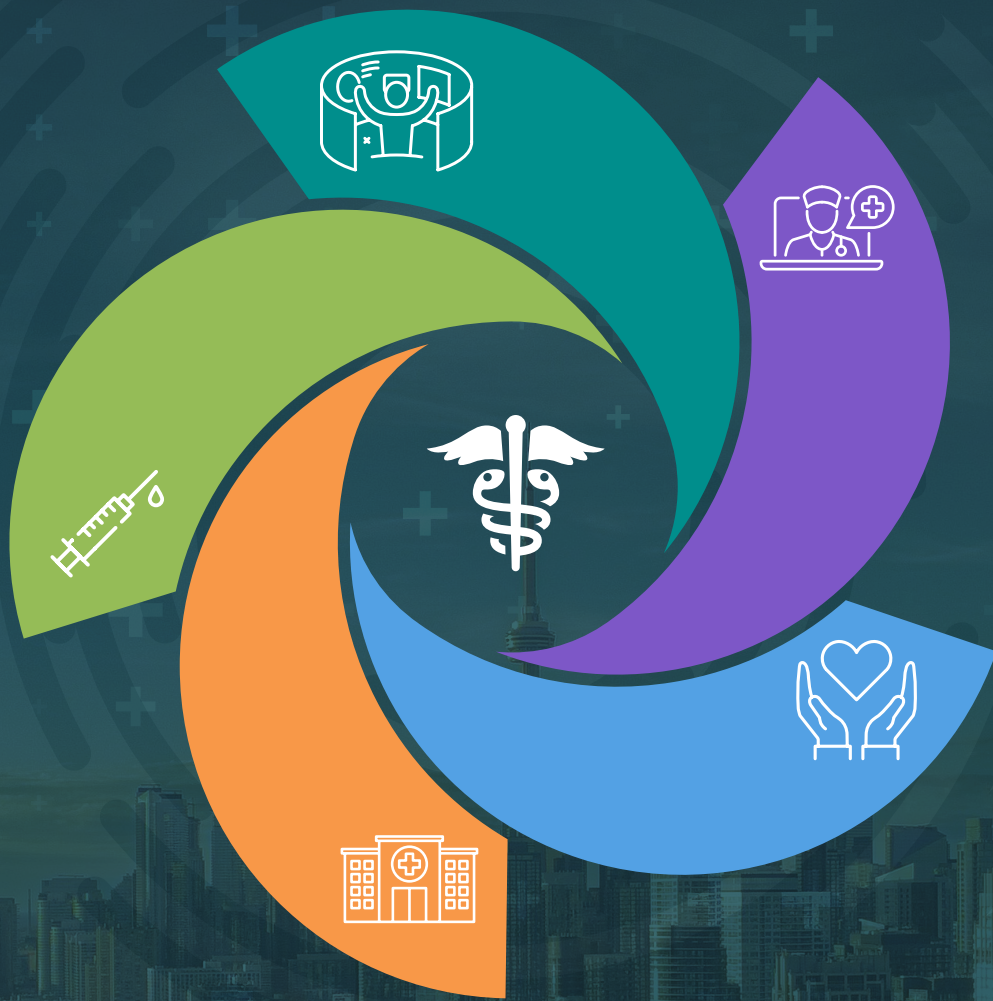
TO HUMAN FACTORS AND ERGONOMICS METHODS

Our *Users' Guides to Human Factors and Ergonomics Methods* series is designed to help HF/E professionals learn the latest information, research and concepts on topics ranging from asking the right questions and diagnosing workload issues to measuring the usability of products, services and systems. Available guides include:

- Questionnaire Design
- Risk Management
- Situation Awareness Measurement
- Task Analysis
- Usability Assessment
- Workload Assessment



To purchase, visit Amazon or my.hfes.org/online-store/publications.



HFES INTERNATIONAL SYMPOSIUM

on Human Factors and
Ergonomics in Health Care

Save the Date!

MARCH 30 - APRIL 02, 2025

WESTIN HARBOUR CASTLE HOTEL | TORONTO, CANADA

