

Human Factors and Ergonomics Society (HFES) Conference

Lectures, Poster Sessions, and Discussion Panels

Tuesday, October 24th

Time / Location	Session	Title	Author
10:30am - 12:00pm Cabinet	Ergonomic Innovations and Productivity in Workplace Environments (ED1 + ME1)	Lecture: Environmental Intervention Evaluation to Support Motor Planning of Wheelchair Movements: A Pilot Study	Ekim Koca, Kam Tabattanon, Emily Nakisher, Bernard Martin
10:30am - 12:00pm Lincoln East	Human Machine Teaming (CEDM1)	Lecture: Adapting to Imperfect Automation: The Impact of Experience on Dependence Behavior and Response Strategies	Patrik T. Schuler, X. Jessie Yang
1:30pm - 3:00pm Georgetown West	Product Design (PD1)	Lecture: Investigating Unintended Biases due to Simulated Impairment within Inclusive Mobility and Design Research	Kam Tabattanon, Bernard Martin,
1:30pm-3:00pm Monroe		Discussion Panel: The Measure of a Career: The Lasting Impact of Dr. Claire Gordon's Contributions to Anthropometry	Robert Fox
3:30pm - 5:00pm Monroe	Exoskeletons - Part 1 (OE2)	Lecture: Effects of Biofeedback on Muscle Effort Reduction when Holding Positions with a Powered Upper Limb Exoskeleton	Xiangyu Peng, Leia Stirling

Wednesday, October 25th

Time / Location	Session	Title	Author
10:30am - 12:00pm Jefferson East	HART Applications (HART3)	Lecture: Examination of Human Spatial Reasoning Capability and Simulated Autonomous Rendezvous and Docking Monitoring Performance	Hannah Larson, Leia Stirling
2:15pm - 2:30pm Jefferson East	Trust (HART4)	Lecture: Promises and Trust Repair in UGVs	Connor Esterwood, Arsha Ali, Zariq George, Dawn Tilbury, Lionel Robert
5:30pm - 6:15pm International Ballroom	Poster Reception - Part 1	Poster: A Method of Characterizing Street Crossing Behavior for Pedestrian and Driver Perspectives	Caleb Jeanniton, Leia Stirling

5:30pm - 6:15pm International Ballroom	Poster Reception - Part 1	Poster: Perceived Usability of a Live Feedback Interface for Neonatal Ventilation Training	Jacqueline Hannan, Gary Weiner, Leia Stirling
6:15pm - 7:00pm International Ballroom	Poster Reception - Part 2	Poster: Comparing Trunk Kinematics Computed by Optical Marker-Based Motion Capture System and Inertial Measurement Units during Overground Trips	Neil Alexander
6:15pm - 7:00pm International Ballroom	Poster Reception - Part 2	Poster: Development of Methods to Assess a Driver State Monitoring System's Ability to Track a Driver's Head Position and Face	Monica L.H. Jones
6:15pm - 7:00pm International Ballroom	Poster Reception - Part 2	Poster: HF/E Opportunities in Healthy Work Design: Updates on NORA Healthy Work Design and Well-Being Council Activities	Robert Fox
6:15pm - 7:00pm International Ballroom	Poster Reception - Part 2	Poster: Illuminating the Augmented Reality Stage: Assessment of Lighting Conditions For Space Exploration	Noor Alesawy, Leia Stirling

Thursday, October 26th

Time / Location	Session	Title	Author
9:15am - 9:30am Cabinet	Advancing Care and Well-being for Diverse Populations (A1+CI1)	Lecture: New Methods to Quantify Functional Strength for Young Children: Laboratory and Task Design Considerations	Monica L.H. Jones, Sheila Ebert, Carl Miller, Matt Reed
10:30am - 12:00pm Georgetown East		Discussion Panel: Environmental Sustainability, Electronics, and Ergonomics: A Tale of Two Continents	Bernard Martin
11:24am - 11:42am Cabinet	Safety and Performance (HPM2+S3)	Lecture: A systematic review of challenging scenarios involving automated vehicles and vulnerable road users	Aditya Deshmukh, Zifei Wang, Huizhong Guo, Dania Ammar, Fred Feng, Brian Lin, Shan Bao, Feng Zhou

Friday, October 27th

Time / Location	Session	Title	Author
8:30am - 10:00am Georgetown West		Discussion Panel: Understanding the contributions of working hours to sleep, circadian rhythms, and worker risk	Robert Fox

8:30am - 10:00am Cabinet	Exploring Augmented Reality: Enhancing Learning, Ergonomics, and Usability (XR6)	Lecture: A comparison of sensorimotor assessment accuracy between augmented reality and touchscreen environments	Joe Tang, Hannah Weiss, Leia Stirling
10:30am - 10:45am Jefferson East	Biomechanical Modeling and Simulation - Part 2 (OE8)	Lecture: Examining Central Fatigue Pathways under Stress: Integrating Insights from Graph Theoretical Neural Modeling and Motor Cortex Excitability	Oshin Tyagi