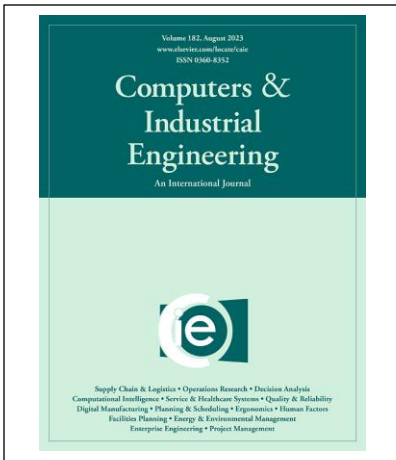


ISE FACULTY / *STUDENT PUBLICATIONS
SPRING 2024 – SPRING 2025

REFEREED JOURNALS / BOOKS



Computers in Industrial Engineering

Dessouky, Y, Editor-in-Chief, Elsevier.

Proceedings of the 7th International Conference on Management Science and Industrial Engineering

Dessouky, Y., Editor

Dashboard Design

Moallem, A., Chapter in "Human-Computer Interaction in Various Application Domains", CRC Press, 1st Ed., eBook [ISBN 9781003490692](https://doi.org/10.1007/978-1-4939-9069-2), 2024.

Proceedings of 6th International Conference, HCI-CPT 2024, HCI for Cybersecurity, Privacy and Trust.

Moallem, A, 6th International Conference, HCI-CPT 2024, Held as Part of the 26th HCI International Conference, HCII 2024, Washington, DC, USA, June 29 – July 4, 2024, Proceedings, Part I, <https://link.springer.com/book/10.1007/978-3-031-61379-1>.

AHFE International

Moallem, A Proceedings of the 15th International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences Nice, France, Volume 127, ISBN: 978-1-964867-03-8, July, 2024

Exploring the impact of lighting sources on walking behavior in obstructed walkways among older adults.

Luo, Y., Chen, Y., Huang, G., & Hu, B. (2024). Experimental Gerontology, 196, 112580. <https://doi.org/10.1016/j.exger.2024.112580>

Exploring the effect of human-drone communication modality on safety and balance control in virtual construction environments.

Hu, B., Xia, S., Zhu, Z., Cheng, J. Y., Luo, Y., Jeelani, I., & Gheisari, M. (2024). Ergonomics, 1-14. <https://doi.org/10.1080/00140139.2024.2380342>

Integrating Motion Intention and Impedance Control in Teleoperated Robotic Rehabilitation for Upper Extremity Disorders.

Banzon, A. J., Wang, E., Luo, Y., Jin, L., & Jiang, L. (2024). Journal of Engineering and Science in Medical Diagnostics and Therapy, 1-11. <https://doi.org/10.1115/1.4067182>

Intelligent Automation of SFO Crime Prediction using Multiple Artificial Intelligence Methods

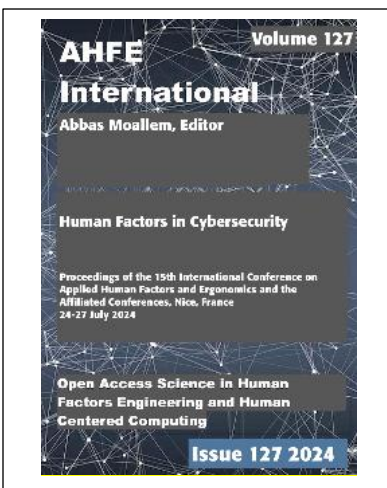
*P. K. Parameshwara and S. Gupta, 2024 IEEE 15th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), Yorktown Heights, NY, USA, 2024, pp. 612-619, doi: 10.1109/UEMCON62879.2024.10754733.

From young to old: The effects of information presentation type, multimodal display, and age on situation awareness and processing time in automated vehicles

Martinez, K. D., & Huang, G. (2024). Transportation Research Part F: Traffic Psychology and Behaviour, 103, 128-140. <https://doi.org/10.1016/j.trf.2024.04.002>

Characterizing the effect of mind wandering on partially autonomous braking dynamics

Sridhar, H., Huang, G., Thorpe, A., Oishi, M., & Pitts, B. J. (2024).. ACM Transactions on Cyber-Physical Systems. <https://doi.org/10.1145/3653678>



ISE FACULTY

2024 - 25

CONFERENCE PRESENTATIONS / PROCEEDINGS

- **Dr. Yasser Dessouky**

Overview of Supply Chain Analytics, *The Sixth IEEE International Conference on Technology Management, Operations and Decisions*, Sharjah, UAE, 2024.

Applying Statistical and Machine Learning Techniques to Health Problems, 2024 *International Conference on Management Science and Industrial Engineering*, Bangkok, Thailand, 2024.

- **Dr. Gaojian Huang**

Multimodal Feedback for Effective Takeover in Automated Vehicles for Hearing Impairment Chu, A., Lo, W. H., & Huang, G. (2024). In Adjunct Proceedings of the 16th International Conference on Automotive User Interfaces and Interactive Vehicular Applications (pp. 304-306). <https://doi.org/10.1145/3641308.3680515>
*Best Video Award

Comparing Static and Dynamic Vibration Cues in Wristband Haptic Feedback for Enhanced Driver Response in Automated Vehicles Lo, W. H., & Huang, G. (2024).. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/1071181324126875>

Assessing Meaningful Visual and Tactile Feedback for Effective Automated Vehicle Takeover by Hearing and Non- Hearing Drivers Chu, A., Lo, W. H., & Huang, G. (2024).. In Proceedings of the Human Factors and Ergonomics Society Annual Meeting. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813241268844>

A Survey on Perceptions of Smartwatch Haptic Feedback for Enhancing Automated Vehicle Takeover Decisions Lo, W. H., & Huang, G. (2024). In Proceedings of the Human Factors and Ergonomics Society Annual Meeting. SAGE Publications. <https://doi.org/10.1177/10711813241275929>

The Impact of Meaningful Vibrotactile Displays on User Preferences Across Age Groups in Automated Driving Zhang, Z., Lo, W. H., & Huang, G. (2024). In Proceedings of the Human Factors and Ergonomics Society Annual Meeting. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813241275919>

Exploring Attitudes Towards Smart Home Technology Through Focus Groups: Comparing Older Adults With and Without Health Conditions.Jain, P., Pendyala, S., Etu, E. E., Zhang, Z., Shah, M., Larot, J., & Huang, G. (2024). In Proceedings of the Human Factors and Ergonomics Society Annual Meeting. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813241276479> *2024 Arnold M. Small Best Student Paper Award

The Intersection of Voice Assistants and Autonomous Vehicles: A Scoping Review Chu, A., & Huang, G. (2024). In Proceedings of the Human Factors and Ergonomics Society Annual Meeting. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813241275908>

Haptic Technology for Hearing Loss: A Systematic Review of Technical Feasibility, Usability, and User Experience Orzech, G., Luo, Y., & Huang, G. (2024). In Proceedings of the Human Factors and Ergonomics Society Annual Meeting. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813241275928>

- A Systematic Review Toward a Comprehensive Framework for Measuring Non-chronological Age Milind***, N., Jain, P., & Huang, G. (2024). In Proceedings of the Human Factors and Ergonomics Society Annual Meeting. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813241268864>
- **Dr. Minnie Patel**
 - Enhancing Product Designing with the Help of Artificial Intelligence***
Nikalwala,D. and **Patel, M.H.**, Proceedings of PICMET 2024, Portland,OR
 - Impact of AI in Product Lifecycle***
Tiwari, A. and **Patel M. H.**, Proceedings of PICMET 2024, Portland, OR

 - **Dr. Yue (Lyla) Luo**
 - Exploring the Application of Upper Limb Exoskeletons in Pediatric Rehabilitation: A Literature Review.***
Meda, P., Jiang, L., & **Luo, Y.**, In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (p. 10711813241262266). Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813241262266>, 2024.
 - Assessing Human Visual Attention in Retail Human-Robot Interaction: A YOLOv8-Nano and Eye-Tracking Approach,***
Kumar, K., Chen, Y., Hu, B., & **Luo, Y.** (2024). In Adjunct Proceedings of the 32nd ACM Conference on User Modeling, Adaptation and Personalization (pp. 610-615). <https://doi.org/10.1145/3631700.3665195>, 2024.
 - Designing Nightlights to Facilitate Evening Activities among Older Adults: Illuminance and Hue Preferences.***
Luo, Y., Chen, Y., Yim, S., & Hu, B. (2024). In 2024 IEEE 4th International Conference on Human-Machine Systems (ICHMS) (pp. 1-5). IEEE. <https://doi.org/10.1109/ICHMS59971.2024.10555655>,2024.
 - Haptic Technology for Hearing Loss: A Systematic Review of Technical Feasibility, Usability, and User Experience.***
Orzech, G., **Luo, Y.**, & Huang, G. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (p. 10711813241275928). Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813241275928>,2024.

 - **Dr. Shilpa Gupta**
 - Authentic Assessment and Student Wellbeing***
CSU Symposium on Wellbeing Informed Teaching, 2024.

 - **Dr. Abbas Moallem**
 - Fundamentals in Data Visualization***
AHFE 2024 International Conference – Nice, France, Tutorials Program

 - The 10 Things you need to know to protect yourself and your company from cyber attacks***
AHFE 2023 International Conference – Nice, France, A Tutorials Program

 - How to Design User-Friendly Dashboards***
Tutorials Program, HCI INTERNATIONAL 2024 Conference on Human-Computer Interaction

Externally Funded Grants and Contracts Awarded 2024

- **Dr. Anil Kumar**
 - Wellbeing and Trust in Automated Mobility*
Honda Research Institute – \$35,003
 - Pilot Workload Assessment in EVTOL Operations*
Honda Research Institute – \$41,351
- **Dr. Yue Luo and Dr. Behin Elahi**
 - Demonstrating Mixed Reality and Edge Computing in Human-Robot Interaction and Collaboration Considering Human Factors*
National Science Foundation (NSF). CISE MSI: RDP: IIS: HCC: (Co-PI; \$599,969). 2025-2028. PI/Co-PIs: Lin Jiang (PI), Lester Papa (Co-PI), Yue Luo (Co-PI), BEHIN ELAHI (Co-PI), Mahima Agumbe Suresh (Co-PI)
- **Dr. Gaojian Huang**
 - Promoting quality of life and independence of Latinx older adults through co-design of an augmented reality and tactile-based self-driving car interface.*
National Institutes of Health. (Sole PI; \$50,000). 2024-2025.

Internally Funded Project Awards and Other Faculty Activities 2024

- **Dr. Yue Luo**
 - **Harmonizing Human-Robot Communication in Manufacturing Collaborations**, SJSU VPRI Teaming Award. (PI; \$24,960). 2024-2025.
 - **Enhancing Road Safety by Addressing Hazards from Rental Vehicles**, Mineta Transportation Institute Emerging Leaders Seed Grant – U.S. Department of Transportation. (PI; \$6,736). 2024.
 - **Enhancing Automated Vehicle Takeover: Integrating Age, Mental State, and Assistive Technologies**, SJSU College of Engineering Small Group Project. (Co-PI; \$50,000). 2024-2025.
- **Dr. Gaojian Huang**
 - **Enhancing Automated Vehicle Takeover: Integrating Age, Mental State, and Assistive Technologies**, SJSU College of Engineering Small Group Project (PI; \$100,000). 2024 – 2025.
 - **AI-Driven Adaptive Multimodal Interfaces for Enhancing Micro-Mobility Safety**, SJSU Vice President for Research & Innovation (VPRI) Teaming Award. (PI; \$25,000). 2025 – 2026.

Invited Talks

- **Dr. Yasser Dessouky**
 - APIEMS 2024, Chiang Mai University, 2024
 - NYU-Abu Dubai, 2024
 - New South Wales University, Kensington, AUS 2024
- **Dr. Gaojian Huang**
 - **Innovative Teaching Methodologies in Human-centric Industrial Engineering and Management** Huang, G. (2025).. Invited Panelist, 2nd ERASMUS+ LEONARDO (Learning & Experimentation Open-Access Factory for Industrial Workforce 5.0) Live Discussion Panel. January.
 - **Balancing Multimodal and Unimodal Takeover Requests: Leveraging Sensory Channels in Automated Vehicle Interfaces** Huang, G. (2024).. Human Factors and Safety Group. University of Leeds. November.
 - **Use of Sensory Channels in Automated Vehicles: Implications for Adaptive Human-Machine Interfaces** Huang, G. (2024). Strategic. HFES Student Chapter. University of Illinois Urbana-Champaign. November.
 - **Optimizing Human-Machine Interfaces: Balancing Sensory Modalities in Automated Vehicle Takeover Requests** Huang, G. (2024).. HFES Student Chapter. Virginia Tech. October.

E-Scooters and Subjective Well-Being: The Roles of Skill Level and Automation? Workshop on “promoting well-being for mobility users in future hybrid societies Huang, G. (2024).” at the 16th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications. September.

- **Mr. Dan Rosenberg**

Designing in the Age of AI. Invited lecture in the HumanTech educational event series sponsored by SWPS University, Warsaw Poland. 2024. This was a virtual event that SWPS hosts quarterly.

Other Professional Activity

- **Dr. Yasser Dessouky**

- Technical Committee Chair, 7th International Conference on Management Science and Industrial Engineering, 2025, Bali, Indonesia.
- Conference co-Chair, 51st Conference of Computers and Industrial Engineering 2024, Sydney, AUS.
- Technical Committee Chair, 2024 6th International Conference on Management Science and Industrial Engineering, 2024, Bangkok, Thailand.
- Advisory Board of UNIDEMI, NOVA University, Lisbon, Portugal 2024

- **Mr. Dan Rosenberg** - Invited panels participation:

- Frascara, J., Gardien, P., Noël, G., Rosenberg, D., Stappers, P.J., and Wild, D. (2024) **Towards strengthening Methods in Design Education and Practice**, Webinar hosted by Lucern University of Applied Sciences and Arts, Dec. 9, 2024.
- Rosenberg, D., Welchman, L., Bowles, C. (2024) Day 1 Panel participant reflecting and **recapping Designing with AI 2004**, Rosenfeld Media conference, June 4, 2024.
- Maj, K, Sypniewski, D., Rosenberg, D., Rayss, A., Nowacka, A. (2024) **Designing in the Age of AI.** Invited panelist in the HumanTech educational event series sponsored by SWPS University, Warsaw Poland.

- **Dr. Yue Luo**

- Program Chair, Human Factors and Ergonomics Society Aging Technical Groups
- Section Chair, 68th Annual Meeting of the Human Factors and Ergonomics Society
- Program Committee, 2024 IEEE International Conference on Human-Machine Systems

- **Dr. Ramesh Srinivasan**

- Collaboration with California Product Stewardship Council (CPSC) on Solar Panel Recovery Project