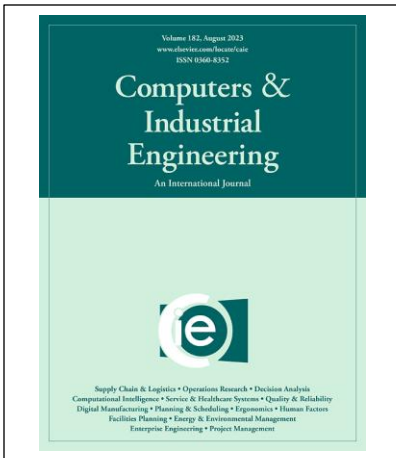


# ISE FACULTY / \*STUDENT PUBLICATIONS

SPRING 2025 – SPRING 2026

## REFEREED JOURNALS / BOOKS



### **Computers in Industrial Engineering**

**Dessouky, Y.**, Editor-in-Chief, Elsevier. Cite score: 13.2. The Impact Factor of this journal is 6.5, CAIE Cite score puts it in the 96<sup>th</sup> percentile of 262 engineering journals. (Q1, Web of Science; ABDC 'A' rating).

### **Golden anniversary of Computers & Industrial Engineering: A bibliometric retrospective**

Guan, L., Merigo, J. and **Dessouky Y.** (2025), " ", Computers and Industrial Engineering, Editorial.

### **Charting the Unknown: Formulating Problem Statements in the Age of Artificial Intelligence**

Tavana, M., and **Dessouky, Y.** (2025), " ", Computers and Industrial Engineering, Editorial.

### **Directional vibrotactile takeover requests on a wrist-worn device: effects of age, pattern type, and urgency in automated driving.**

Lo, W. H., & **Huang, G.** (2025). Accident Analysis & Prevention, 220, 108093.

<https://doi.org/10.1016/j.aap.2025.108093>

### **Vibration Patterns That Persuade: A National Survey of Driver Preferences for Wrist-Worn Vibrotactile Displays in Automated Vehicle Takeover.**

Lo, W. H., & **Huang, G.** (2025). International Journal of Human-Computer Interaction, 1-21.

<https://doi.org/10.1080/10447318.2025.2598454>

### **Shared Control in Micro-Mobility: Effects of Rider Skill and Automation Levels on Subjective Well-Being in E-Scooter Use.**

Lo, W. H., Lee, J., Roberts, C., Dong, M., Martinez, K., Etu, E. E., ... & **Huang, G.** (2026).

International Journal of Human-Computer Interaction, 1-28

<https://doi.org/10.1080/10447318.2025.2601282>

### **Forecasting Pediatric Emergency Department Arrivals: Evaluating the Role of Exogenous Variables Using Deep Learning Models.**

Etu, E. E., Larot, J., Etu, K., Emakhu, J., Masoud, S., Tenebe, I., **Huang, G.**, Gunaga, S., & Miller, J.

(2025). Intelligence-Based Medicine, 100313. <https://doi.org/10.1016/j.ibmed.2025.100313>

### **Embodied Intelligence.**

**Huang, G.** (2025). In Handbook of Human-Centered Artificial Intelligence. Springer, Singapore.

[https://doi.org/10.1007/978-981-97-8440-0\\_8-1](https://doi.org/10.1007/978-981-97-8440-0_8-1)

### **Evaluation of home modifications for individuals with mobility impairments using virtual reality and wearable sensors.**

**Luo, Y.**, Gopinadhan, J., Grimaldi, N. S., Lu, X., Ahrentzen, S., Srinivasan, R., & Hu, B. (2025).

Disability and Rehabilitation: Assistive Technology, 1-16.

<https://doi.org/10.1080/17483107.2025.2555536>

### **Using AI-Powered video feedback to improve ergonomics: An analog experiment.**

Espericueta Luna, W. A., Wu, Y. J., **Luo, Y.**, Hu, B., & Gravina, N. (2025). Journal of Organizational

Behavior Management, 1-27. <https://doi.org/10.1080/01608061.2025.2482157>

### **Human Factors Analysis of 23 Cyberattacks (The Human Element in Smart and Intelligent Systems)**

**Moallem, A.** (2025), CRC Press, Boca Raton, FL. [Available on Amazon](#) .

### **HCI for Cybersecurity, Privacy and Trust, Part I, Part II, and Part VII**

**Moallem, A.**, Editor, Proceedings 7th International Conference, HCI-CPT 2025, Held as Part of the 27th HCI International Conference, HCII 2025, Gothenburg, Sweden, June 22–27, 2025, Springer.

### **Human Factors in Cybersecurity**

**Moallem, A.**, Editor, AHFE Conference proceedings © 2026, Springer

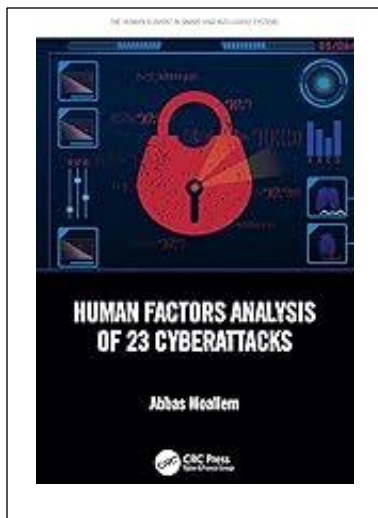
### **AINR: Automated Intrinsic Non-Rigid Registration for Accuracy Qualification of Complex Freeform Products in 3D Printing**

**Lin, W.** and Qiang Huang. IISE Transactions, October, 1–12, 2025.

doi:10.1080/24725854.2025.2561558,.

### **Hyperparameter tuning of deep learning models using MaxPro space filling methodology**

**Gupta, S.**, Jeripothula, H. R., & Montgomery, D. C. (2025). Hyperparameter tuning of deep learning models using MaxPro space filling methodology. International Journal of Experimental Design and Process Optimisation, 8(1–2), 52–61.



ISE FACULTY  
2023 -24

CONFERENCE PRESENTATIONS / PROCEEDINGS

• **Dr. Gaojian Huang**

***Toward AI Standardization: A Triadic Human-AI Collaboration Framework for Multi-Level Autonomous Mobility.***

Huang, G., Lo, W. H., Liu, G., Luo, Y., & Jin, Y. (2025). In *2025 IEEE Conference on Artificial Intelligence (CAI)*. IEEE. <https://doi.org/10.1109/CAI64502.2025.00292>

***A Multi-Modal Human-AI Collaboration Framework for E-Scooters: Evaluating AI Roles in User Preference.***

Lo, W. H., Wang, Y., Wintersberger, P., & Huang, G. (2025). In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813251360714>

***The Impact of Mental States, Scenarios, and Modalities on Informative Takeover Requests in Automated Driving***

Lo, W. H., Chu, A., Luo, Y., Etu, E. E., Attar, N., Liu, G., & Huang, G. (2025). In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813251360008>

***Novel Biological Prompting Technology: Automatic Directional Control by Eye-Tracking Sensor.***

Liu, G., Wang, J., Wu, H. C., Huang, G., Kumar, A., Wu, Y., Chang, S. Y., & Luo, Y. (2025). In *2025 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB)*. IEEE.

***Advancements in Eye-Tracking for Machine Direction Control: Applications, Approaches, and Challenges.***

Cui, K., Liu, G., Jamjoum, O., Wang, J., Wu, H. C., Huang, G., & Luo, Y. (2025). In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813251358246>

***Navigation Assistance Via Haptic Technology for Blind or Low-Vision Users: A Scoping Review.***

Tang, S. & Huang, G. (2025). In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813251360706> \*Runner-up, Best Student Paper Award (HFES Age and Ability Technical Group), ASPIRE 2025 (HFES International Annual Meeting)

***Leveraging Machine Learning Algorithms to Predict Self-Rated Physical Health: Insights from the All of Us Dataset.***

Liu, G., He, Y., Huang, G., & Luo, Y. (2025). In *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care* (Vol. 14, No. 1, pp. 54-58). Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/2327857925141012>

***Assessing alcohol use disorder: Insights from lifestyle, background, and family history with machine learning techniques.***

Wang, C., Huang, G., & Luo, Y. (2025). In *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care* (Vol. 14, No. 1, pp. 16-20). Sage CA: Los Angeles, CA: SAGE Publications.  
<https://doi.org/10.1177/2327857925141005>

• **Dr. Yue (Lyla) Luo**

***Generative AI in Engineering Education: A Survey of Student and Instructor Usage and Attitudes.***

Luo, Y., Chen, E., Liu, H., Riener, K., & Yang, S. H. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 69, No. 1, pp. 272-277). Sage CA: Los Angeles, CA: SAGE Publications.  
<https://doi.org/10.1177/10711813251358792>, 2025.

***Advancements in Eye-Tracking for Machine Direction Control: Applications, Approaches, and Challenges.***

Cui, K., Liu, G., Jamjoum, O., Wang, J., Wu, H. C., Huang, G., & Luo, Y. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 69, No. 1, pp. 762-767). Sage CA: Los Angeles, CA: SAGE Publications.  
<https://doi.org/10.1177/10711813251358246>, 2025.

***Usable Without Touch? Revealing the Relationship Between Usability and Mid-Air Gestures.***

Catalano, J., & Luo, Y. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 69, No. 1, pp. 968-974). Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/10711813251369780>, 2025.

***The Impact of Mental States, Scenarios, and Modalities on Informative Takeover Requests in Automated Driving.***

Lo, W. H., Chu, A., Luo, Y., Etu, E. E., Attar, N., Liu, G., & Huang, G. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 69, No. 1, pp. 1486-1493). Sage CA: Los Angeles, CA: SAGE Publications.  
<https://doi.org/10.1177/10711813251360008>, 2025.

***Scalpel, please: How do surgeons communicate and interact with robotic scrub nurses during instrument handoffs in intraoperative care.***

Riener, K. W., Hjalmarson, D., & Luo, Y. In *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care* (Vol. 14, No. 1, pp. 212-216). Sage CA: Los Angeles, CA: SAGE Publications.  
<https://doi.org/10.1177/2327857925141053>, 2025.

***Assessing alcohol use disorder: Insights from lifestyle, background, and family history with machine learning techniques.***

Wang, C., Huang, G., & Luo, Y. In *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care* (Vol. 14, No. 1, pp. 16-20). Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/2327857925141005>, 2025.

***Leveraging Machine Learning Algorithms to Predict Self-Rated Physical Health: Insights from the All of Us Dataset.***

Liu, G., He, Y., Huang, G., & Luo, Y. In *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care* (Vol. 14, No. 1, pp. 54-58). Sage CA: Los Angeles, CA: SAGE Publications.  
<https://doi.org/10.1177/2327857925141012>, 2025.

***Enhancing Upper Limb Rehabilitation in Hospital Occupational Therapy Using a Machine Learning Human-Robot Interaction (HRI) Platform Integrated with Real-time Visual Feedback.***

Vu, K., Catalano, J., Holder, Z., Sam, D., Khalifeh, A., **Luo, Y.**, ... & Jiang, L. In *Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care (Vol. 14, No. 1, pp. 128-132)*. Sage CA: Los Angeles, CA: SAGE Publications. <https://doi.org/10.1177/2327857925141030>, 2025.

***Novel biological prompting technology: Automatic directional control by eye-tracking sensor***

Liu, G., Wang, J., Wu, H.-C., **Huang, G., Kumar, A.**, Wu, Y., Chang, S. Y., & **Luo, Y.** In *2025 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB)*, 1–6, IEEE. <https://doi.org/10.1109/BMSB65076.2025.11165641>, 2025.

***Toward AI Standardization: A Triadic Human-AI Collaboration Framework for Multi-Level Autonomous Mobility***

**Huang, G.**, Lo, W. H., Liu, G., **Luo, Y.**, & Jin, Y. In *2025 IEEE Conference on Artificial Intelligence (pp. 1568-1577)*, IEEE. <https://doi.org/10.1109/CAI64502.2025.00292>, 2025.

***Human-Robot Communication: Utilizing Light-Based Signals to Convey Robot Operating State***

Riener, K., Patel, V., Jiang, L., Elahi, B., Suresh, M., Papa, L., & **Luo, Y.** In *2025 International Conference on Applied Human Factors and Ergonomics (AHFE, vol 179)*. AHFE Open Access. AHFE International, USA. <http://doi.org/10.54941/ahfe1006382>, 2025.

• **Dr. Ayca Erdogan**

***Predicting Instability at Home and Foster Care, Challenges and Opportunities***

**Erdogan, S.A, Saberi, N., Chaus, A., Ilkimen, E.**, Proceedings of 2025 INFORMS Service Science Conference, Oxford University, UK, July 1-3, 2025.

• **Dr. Minnie Patel**

***No-Code Digital Product Development Methodology***

**Deshmukh, S. and Patel M. H.**, 52nd Computers and Industrial Engineering Proceedings, 29th-31st October 2025 - DISP, INSA Lyon, Lyon, France

• **Dr. Weizhi Lin**

***Automated Qualification of 3D-Printed Products for Personalized Manufacturing***

**Lin, W.**, INFORMS Annual Meeting, Atlanta, GA, 2025.

• **Dr. Anil Kumar**

***Gender Stereotypes in Video Gaming: Impacts of Anxiety Levels, Verbal Communication, and Performance***

Doan, J., **Kumar A.** (2025).. In: Tareq Ahram, Waldemar Karwowski and Jay Kalra (eds) *Human Factors in Design, Engineering, and Computing*. AHFE (2025) International Conference. AHFE Open Access, vol 199. AHFE International, USA. <http://doi.org/10.54941/ahfe1006817>

***What's Your Intent? Understanding Intentions of Prosocial Behavior in Micromobility***

Salubre, K., Roberts, C., Chen, Y. L., Williams, A., Avendano Lopez, Y., Hegde, M., Zheng, Z., **Kumar, A.**, Mehrotra, S., & Akash, K. (2025, September).. In *Proceedings*

of the Human Factors and Ergonomics Society Annual Meeting (Vol. 69, No. 1, pp. 1204-1209). Sage CA: Los Angeles, CA: SAGE Publications.

***Novel Biological Prompting Technology: Automatic Directional Control by Eye-Tracking Sensor***

Liu, G., Wang, J., Wu, H. C., Huang, G., Kumar, A., Wu, Y., Chang, S.Y., & Luo, Y. (2025, June).. In *2025 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB)* (pp. 1-6). IEEE.

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## Externally Funded Grants and Contracts Awarded

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- **Dr. Yue (Lyla) Luo**

***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)

***From Data to Diagnosis: Leveraging Large Language Models and Deep Learning for Alzheimer Detection and Risk Attribution***

Healthy Americas Research Consortium (HARC) Grants. (PI & Co-PI; \$10,000). 2025-2026.

PI/Co-PIs: Yue Luo (PI), Guannan Liu (Co-PI), Gaojian Huang (Co-PI)

- **Dr. Gaojian Huang**

***Exploring AI-Driven Approaches to Quantify and Mitigate Driver Distraction***

U.S. Department of Transportation. (PI; \$80,000). 2026 – 2027.

***From Data to Diagnosis: Leveraging Large Language Models and Deep Learning for Alzheimer Detection and Risk Attribution***

Healthy Americas Foundation. (Co-PI; \$10,000). 2026 – 2027.

***AI-Based Tactile Interfaces for Improved Safety and Wellbeing in Automated and Micro-Mobility Transportation A***

American Honda Motor Company, Inc (Sole PI; \$100,000). 2025 – 2026.

- **Dr. Anil Kumar**

***Development of Educational System of Systems model of Educational Setting***, \$53,213, Honda Research Institute, 2025-2026

***Ad hoc Team Cooperation***, \$66,353,

Honda Research Institute, 2025 (PI).

***Respiratory Protection for Firefighters Responding to Wildland Fires***, \$1,980,000

University of California Office of President, 2023-2025 (Co-PI).

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## Internally Funded Project Awards and Other Faculty Activities

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### Invited Talks

- **Dr. Yasser Dessouky**
  - *Emerging Publication Trends in Computer and Industrial Engineering (Supply Chain), The 25th Asia-Pacific Industrial Engineering and Management Systems Conference, Hangzhou, China, 2025.*
  - *Simulation publications in Computers and Industrial Engineering: Trends 2025 Industrial Simulation Conference, Skvode, Sweden, 2025.*
  - *Emerging Trends in Simulation, 2025 International Conference on Management Science and Industrial Engineering, Bali, Indonesia, 2025.*
- **Dr. Gaojian Huang**
  - *AI + Lifestyle: Redefining Work Environments and Well-being in the Age of AI.* Invited panelist at the 2nd Global AI Pitch Summit Silicon Valley 2025, Santa Clara, CA. November. (2025)
  - *Advancing Intelligent Vehicle Research: Engaging the Division of Research and Innovation.* Invited presentation at the SJSU Division of Research and Innovation All-Hands Meeting, Dr. Martin Luther King, Jr. Library. May. (2025).
  - *Optimizing Driving Safety Through Research: Insights from San Jose State University BAT Lab.* Invited presentation at the Amazon Automotive UI R&D Lab. March. (2025).
  - *Beyond Automation: The Future of Human-AI Interaction in Transportation.* Invited presentation at the Human-AI Interactions in Transportation Lunch Event held by the Intelligent Transportation Society of California and the Mineta Transportation Institute. March. (2025).

### Other Professional Activity

- **Dr. Yasser Dessouky**
  - **Guest Editor**, Industrial Management and Data Science, Digital Technology-enabled ESG Reporting and Assurance against Greenwashing:2025-2026.
  - **Guest Editor**, International Journal Production Research, Special Issue: From Vision to Practice: Realizing Net-Zero Manufacturing Through Circular Economy and Smart Production: 2026.
  - **Guest Editor**, Annals of Operations Research, Special Issue: Collaborative Intelligence in Operations Research: Models, Methods, and Applications: 2025-2026.

- **Conference co-Chair**, 52nd Conference of Computers and Industrial Engineering 2025, Lyon, France.
- **Technical Committee Chair**, 7th International Conference on Management Science and Industrial Engineering, 2025, Bali, Indonesia.
- **Invited panel**: APIEMS 2025, Hangzhou, China, 2025
- **Invited panel**: IPIC 2025, Hong Kong Polytech, 2025

- **Dr. Gaojian Huang**

**Technical Reports**

- ***Mental States & Machine: Enhancing Driver Engagement in Automated Vehicles for Safer Transitions***  
Lo, W. H., Chu, A., Luo, Y., Etu, E. E., Attar, N., & **Huang, G.** (2025). (No. REPS-HU-25-01). Research and Education in Promoting Safety (REPS) Tier-1 University Transportation Center (UTC).  
**\*Featured in the Transportation Research Board (TRB) Weekly, National Academies of Sciences, Engineering, and Medicine. Newsletter – 250930.**
- ***Insights for the Future of Car Rental and Ridesharing: Driving Behavior Across Different Levels of Automation.***  
Meda, P., Contreras, A. V., Lo, W. H., **Huang, G.**, & Luo, Y. (2025). *Mineta Transportation Institute*. <https://doi.org/10.31979/mti.2024.2427>  
**\*Featured in the Transportation Research Board (TRB) Weekly, National Academies of Sciences, Engineering, and Medicine. Newsletter – 250311.**

- **Dr. Yue Luo**

- **Faculty Discussion: Using GenAI in Teaching.** Faculty Learning Community Event invited by SJSU Charles W. Davidson College of Engineering, SJSU, November 2025.
- 
- **Human Factors and Wearable Technology.** Workshop invited by the SJSU International Gateways for South Korean scholarship students at Korea Institute for Advancement of Technology (KIAT), SJSU, November 2025.
- 
- **Human Factors and UI/UX in Intelligent Systems.** Workshop invited by the SJSU International Gateways for La Salle BCN University students, SJSU, June 2025.
- **Program Chair**, Human Factors and Ergonomics Society Aging & Ability Technical Group
- **Publicity & Session Chair**, 2025 IEEE Conf. on AI Industry Standard and Quality Assurance
- **Conference Committee**, 2025 HFES Western Regional Conference
- **Conference Committee**, 2025 Silicon Valley Women in Engineering (WiE) Conference
- **Faculty Co-Advisor**, SJSU Student Chapter of Human Factors and Ergonomics Society

- **Dr. Ayca Erdogan**

- **Chair**, University Academic Freedom Committee
- **Academic Advisor**, MS ISE, MS ISE- Operational analytics, and SAGE Program

- **Faculty advisor**, IISE Student Club: Preparing for hosting the IISE Western Regional Conference at SJSU
- **Dr. Abbas Moallem**
  - **Program Chair** HCI-CPT: 8th International Conference on HCI for Cybersecurity, Privacy and Trust HCII 2026- Sweden
  - **Track Chair** Human Factors in Cybersecurity AHFEI 2025- Orlando FL
    - Tutorial:** How to Design User-Friendly Dashboards HCII 2025- Sweden
    - Panel:** How LLMs Transform Our Lives? A Panel Discussion on New Developments in Generative AI and Large Language Models
  - **Tutorial:** Fundamentals in Data Visualization and Dashboard Design (Live Tutorial Onsite) AHFEI 2025 Orlando Florida
  - **Speaker** Cybersecurity Privacy and Trust, USN NAVSURFWARCEN DAH VA (USA), DOD-Florida; Human Systems Integration Branch V33, NSWCDD