



# 2025 **IHIET** International

**15<sup>th</sup> International Conference on**  
**Human Interaction &**  
**Emerging Technologies:**  
**(IHIET 2025)**

**August 25-27, 2025**

**University of Vienna**  
**Vienna, Austria**

# **Final Program**

**WWW.IHIET.ORG**

# IHIET 2025

## Conference Reception

**MONDAY AUGUST 25, 2025 - 18:00-22:00**

**RECEPTION LOCATION: GRAND HOTEL WIEN**  
**KÄRNTNER RING 9, 1010 WIEN, AUSTRIA**

(Dress is business casual, Conference Registered Participants, Photo ID required)

## Conference Organization

### Conference Chairs:

Prof. Renate Motschnig, Austria

Prof. Tareq Ahram, United States of America

### Scientific and Technical Session: August 26-27, 2025

Location: Universität Wien - Fakultät für Informatik und Zentrum für  
LehrerInnenbildung

Address: Währinger Straße 29, A-1090 Wien

### CONFERENCE ADMINISTRATOR:

ADMIN@IHIET.ORG

### CONFERENCE SUPPORT:

SUPPORT@IHIET.ORG

## Scientific Tracks

IHIET 1	Human-centered Design
IHIET 2	Artificial Intelligence, Computing and Intelligent Design
IHIET 3	Augmented, Virtual and Mixed Reality Simulation
IHIET 4	Wearable Technologies, Social and Affective Computing
IHIET 5	Human–computer Interaction
IHIET 6	Human-Technology and Future of Work
IHIET 7	Emerging Technologies and Business Applications
IHIET 8	Applications in Medicine and Healthcare
IHIET 9	Management, Training and Business Applications



# Conference at a Glance

**Scientific and Technical Session:** August 26-27, 2025

Location: **Universität Wien – Faculty of Informatics**

Address: Währinger Straße 29, A-1090 Wien



**universität  
wien**

## Tuesday - Wednesday, August 26-27, 2025

#	SESSION TITLE	ROOM	TRACK
<b>Day 1: Tuesday, August 26 - Session Time: 8:30 - 9:30 CEST</b>			
	Opening Session: Plenary Speech: Emerging Disruptive Technologies Focused Strategy	Vienna	All
<b>9:30 - 10:00 • Sessions Break</b>			
<b>Day 1: Tuesday, August 26 - Session Time: 10:00 - 11:30 CEST</b>			
1	Special Interest Group: Human-AI Collaboration in Critical Tasks	Vienna	IHIET 1
2	Artificial Intelligence, Computing and Intelligent Design I	Salzburg	IHIET 2
3	Augmented, Virtual and Mixed Reality Simulation I	Graz	IHIET 4
<b>11:30 - 12:00 • Sessions Break</b>			
<b>Day 1: Tuesday, August 26 - Session Time: 12:00 -13:00 CEST</b>			
4	Wearable Technologies, Social and Affective Computing I	Vienna	IHIET 5
5	Human-computer Interaction: Focus on User and Performance	Salzburg	IHIET 6
6	Emerging Technologies and Business Applications I	Graz	IHIET 7
<b>End of Day 1 Sessions</b>			
<b>Day 2: Wednesday, August 27 - Session Time: 9:00 - 10:00 CEST</b>			
7	Management, Training and Business Applications	Vienna	IHIET 9
8	Human-centered Design and User Experience	Salzburg	IHIET 1
<b>10:00 - 10:30 • Sessions Break</b>			
<b>Day 2: Wednesday, August 27 - Session Time: 10:30 - 11:30 CEST</b>			
10	Augmented, Virtual and Mixed Reality Simulation II	Vienna	IHIET 3
11	Wearable Technologies, Social and Affective Computing II	Salzburg	IHIET 4
12	UX Design and Human Perception: AI and Virtual Reality	Graz	IHIET 5
<b>11:30 - 12:00 • Sessions Break</b>			
<b>Day 2: Wednesday, August 27 - Session Time: 12:00 -13:00 CEST</b>			
13	Workshop: Emerging Disruptive Technologies Focused Strategy	Vienna	IHIET 7
14	Human-centered Design: Decoding User Preferences	Salzburg	IHIET 1
15	Emerging Technologies and Business Applications II	Graz	IHIET 7



# Detailed Program

## DAY 1

**SESSION**      **Opening Session**  
**Room: Vienna**

**Tuesday, August 26   8:30 - 9:30 CEST**

**Plenary Speech:** Emerging Disruptive Technologies Focused Strategy  
**Speaker:** Dr. Pedro Água, Portuguese Naval Academy, Portugal

**Plenary Summary:** Businesses across all industries are facing increasing challenges, which put their competitiveness at stake. Challenges range from disruptions driven by world conflicts and global politics to a perceived increase in socioeconomic risks. With the increased competition, businesses make a considerable effort to sustain a competitive edge in their arenas. A factor ever impacting business performance is technology—a major driver of competitiveness, accelerating innovation and new product development. The purpose of this speech is to suggest a strategy to deal with the danger posed by Emerging Disruptive Technologies (EDTs). It suggests businesses how to design a well-thought-out plan that will help them be more resilient and competitive when faced with the threat of possible EDTs. This plenary also intends to provide academics as well as practitioners with a strategic problem solving framework, which can be further customized for any organization or strategic situation where the threat of EDTs is a real concern. Overall, and moreover an EDT-influenced strategy is critical for supporting decisions concerning technology investment, capability development, and other strategic initiatives.



**Speaker Bio:** Dr. Pedro Água graduated from the Portuguese Naval Academy with a Naval Sciences degree, and holds a PhD in Industrial Engineering and Management from Instituto Superior Técnico - Lisbon University. He holds an MBA from IESE Business School. A Former Naval Officer, has been Head of Department onboard Naval Vessels. He also had a career in the business world, in the telecommunications and engineering sectors, at home and abroad, where he became senior manager for several years in UK, having been responsible for the leadership and management of multinational teams across three countries simultaneously. From Jan. 2023 to Nov. 2024 he was the Deputy Director for CINAV (the PRT Navy Research Centre), and currently is its Scientific Council Chairman and an associate professor at the Portuguese Naval Academy, where he teaches project management and defense systems acquisition. Since 2022 he has been a national representative for NATO STO, specifically at the SCI (Systems Concepts and Integration) Panel.



**Tuesday, August 26, 2025**  
**10:00 - 11:30 CEST Technical Sessions**

DAY 1	Track	Room
SESSION 1	IHIET 1	Vienna
Tuesday, August 26	Special Interest Group: Human-AI Collaboration in Critical Tasks	
10:00 - 11:30 (CEST)	Session Chair(s): Toni Waefler, Switzerland and Sebastiaan De Peuter, Netherlands	
Welcome to SIG: Human-AI Collaboration in Critical Tasks Toni Waefler, Jonas Lundberg, Switzerland		
<b>About the SIG Panel:</b> The HORIZON-project AI4REALNET (ai4realnet.eu) aims to develop AI-based solutions for critical networks that are traditionally operated by humans, and where AI systems complement and augment human abilities. Such, the project incorporates three core aspects. Firstly, we take a socio-technical perspective on system design, where humans and AI are combined to achieve joint optimization based on their qualitative differences, with the aim of enhancing each other's strengths and compensating for each other's weaknesses. Secondly, highly skilled and experienced human experts are in the focus of the project. To augment their capabilities that are based on both, explicit as well as tacit knowledge requires different approaches than developing AI to support consumers in their everyday lives. And thirdly, the joint efforts of humans and AI involve critical networks where the stakes are high and decisions are potentially risky. The objective of the proposed workshop is to discuss AI4REALNET work in progress with conference participants.		
AI-Advised Decision Making in Critical Systems Sebastiaan De Peuter, Herke Van Hoof, Netherlands		
Applying Job Design Criteria for Effective Human-AI Collaboration Samira Hamouche, Nerissa Dettling, Toni Waefler, Switzerland		
Augmenting human operators with Artificial Intelligence in critical network systems operation Jonas Lundberg, Kostiantyn Kucher, Karl Johan Klang, Magnus Bång, Sweden		
User experience evaluation of an AI-based decision-support tool for power grid congestion management Jan Viebahn, Abdullah Ayedh, Jonas Lundberg, Magnus Bång, Jeroen Keijzers, Netherlands		
Human system symbiosis – the next generation of human-AI implicit interaction Vítor Minhoto, Adriana Arrais, Duarte Dias, João Paulo Silva Cunha, Portugal		

DAY 1		IHIET 2	Salzburg
SESSION 2	Artificial Intelligence, Computing and Intelligent Design I		
Tuesday, August 26	Session Chair(s): Michael Franklin, United States and Sven Hinrichsen, Germany		
10:00 - 11:30 (CEST)	AI Guided Virtual Reality Meditation for Patients Undergoing Cancer Treatments Michael Franklin, United States		
	Efficient Deep-Learning Model for Emotion Detection Based on Consecutive Facial Images Shing-Tai Pan, Han-Jui Wu, Taiwan		
	How to Design an Operation-Specific LLM-Based Information System Sven Hinrichsen, Robin Herbort, Dominik Green, Benjamin Adrian, Germany		
	Propensity Matters – An Empirical Analysis on the Importance of Trust for the Intention to Use Artificial Intelligence Jona Karg, Frank Ritz, Petra Maria Asprien, Switzerland		
	Personality Traits in 12 Countries Defined by the ‘Big Five’ are Found to Have a Culture Dependency: Implications for Modeling Citizens’ Personalities Hermann Prossinger, Silvia Boschetti, Tomas Hladky, Daniel Riha, Martin Stachon, Jan Slavik, Jakub Binter, Austria		
DAY 1		IHIET 3	Graz
SESSION 3	Augmented, Virtual and Mixed Reality Simulation I		
Tuesday, August 26	Session Chair(s): Fabio Scotto, Switzerland and Hironao Yamada, Japan		
10:00 - 11:30 (CEST)	From Paper to Pixels: Transferring Handwritten Note-Taking Into Virtual Reality Paul Weiser, Sebastian Pape, Daniel Rupp, Frank Flemisch, Germany		
	EchoXR: A Collaborative VR Framework for Spatial Acoustics in Architectural Design Fabio Scotto, Chia Hsuan Chao, Giacomo Montiani, Achilleas Xydis, Fabio Gramazio, Matthias Kohler, Switzerland		
	Construction machinery work support system using mixed reality Hironao Yamada, Satoshi Ueki, Takahiro Ikeda, Japan		
	Synesthetic Design and Intangible Heritage: Mixed Reality as a strategy for preserving and promoting endangered traditions Joao Dias, Ana Luisa Marques, Pedro Costa, Portugal		
11:30 - 12:00 • Sessions Break			



DAY 1		IHIET 4	Vienna
<b>SESSION 4</b>	<b>Wearable Technologies, Social and Affective Computing I</b>		
<b>Tuesday, August 26</b>	Session Chair(s): Sergio Staab, Germany and Sebastian Pfau, Germany		
<b>12:00 - 13:00 (CEST)</b>	<p>The early detection of pressure ulcers, an optimized movement monitoring through machine learning and wearable sensor technology Sergio Staab, Nadia Günter, Vincent Abt, Johannes Luderschmidt, Ludger Martin, Germany</p> <p>Enhancing trucker well-being: The role of cabin features and technology acceptance Sebastian Pfau, Joel Rüttger, Sven Fuchs, Franziska Seifert, Cosima Von Uechtritz, Alina Schmitz-Hübsch, Germany</p> <p>Evaluating Automated Gaze Mapping Across Laboratory and Field Study Settings Celina Vetter, Rebecca Nauli, Ruth Häusler Hermann, Maarten Uijt De Haag, Switzerland</p> <p>Using the Wearable Acceptability Range (WEAR) Scale to Rate Social Acceptability of Mixed Reality and AI Enabled Head-Mounted Wearables Mohammad Jeelani, Michael Prieto, United States</p>		
DAY 1		IHIET 5	Salzburg
<b>SESSION 5</b>	<b>Human-computer Interaction: Focus on User and Performance</b>		
<b>Tuesday, August 26</b>	Session Chair(s): Estefany Rey Becerra, Germany and Vanessa Tudor, Austria		
<b>12:00 - 13:00 (CEST)</b>	<p>Towards a Technology-Enhanced Team Coaching Framework for Higher Education Vanessa Tudor, Renate Motschnig, Austria</p> <p>Multifactorial Measurement of Mental Strain for Developing Adaptive Assistance Systems in Control Rooms Estefany Rey-becerra, Matthias Hartwig, Sascha Wischniewski, Germany</p> <p>Tailoring XAI Justification Formats and Content to Users' AI Literacy Levels Gyewon Jeon, Jeonguk Hong, Sangyeon Kim, Sangwon Lee, South Korea</p> <p>A Comparison of Four Sensor-based Input Methods for Scanning Keyboards Haobin Alturo Chen Liu, Sarika Patel, Scott Mackenzie, Aakanksha Verma, Kerthana Ramesh, Canada</p>		

An examination of the influence of visual perception of 3D LED billboards on viewer emotions: based on environmental psychology  
Jinghao Jiang, Kaizhong Cao, China

Impact of Road Event Recognition Reliability in Autonomous Vehicles on Driver Trust and Takeover Performance  
Shan-Chih Chen, Yung-Ching Liu, Taiwan

**DAY 1**

**IHIET 7**

**Graz**

**SESSION 6**

**Emerging Technologies and Business Applications I**

**Tuesday,  
August 26**

Session Chair(s): Rashed Khan, United Kingdom and Charles Ma, Switzerland

**12:00 -  
13:00 (CEST)**

How Digital Transformation Reshapes Cross-Cultural Performance Management Practices  
Mohammad Rashed Khan, Fateha Shaheen, United Kingdom

Evaluating Silicon Sampling: LLM Accuracy in Simulating Public Opinion on Facial Recognition Technology  
Charles Ma, Switzerland

Design and development of a student-initiated automated delivery system for potential use in e-commerce  
Jun Yit Ong, Aaron Y C Wong, Kenneth Y T Lim, Singapore

Quantum Computing Circle – a Descriptive Case Study on Teaching Quantum Computing in a Business School  
Bettina Schneider, Carmen Winter, Bernd Hänsch-rosenberg, Gerhard Hellstern, Franka Ebob Ebai, Clément Javerzac-galy, Switzerland

The Influence of Culture on Typeface Perception and Design  
Amic Ho, Ruth Chau, Hong Kong SAR China

**End of Day 1 Sessions**

**NOTES:**





**Wednesday, August 27, 2025**  
**9:00 - 10:00 (CEST) Technical Sessions**

**DAY 2**

**IHIET 9**

**Vienna**

**SESSION 7**

**Management, Training and Business Applications**

**Wednesday,  
August 27**

Session Chair(s): Fleur Middlebrough, United Kingdom and  
Hedvig Aminoff, Sweden

**9:00 -  
10:00 (CEST)**

Green Accounting Practices: A Pathway to Sustainable Business  
Growth  
Fleur Justine Middlebrough, Fateha Shaheen, United Kingdom

Enhancing the management of nuclear information systems  
through graph theory-based methods and human-centered  
modeling  
Olivier Malhomme, Luigui Salazar, Xianyun Zhuang, Robert  
Plana, Nicolas Bureau, France

Mapping Human-Centred Design in innovation-driven Projects: an  
HRL assessment of an autonomous ferry and remote operations  
centre concept  
Hedvig Aminoff, Sweden

Leveraging Generative AI for Expanding Strategic Thinking: An  
Integrative Framework for Scenario Analysis, Strategy Formulation,  
and Collaboration  
Sonic Wu, Taiwan

Design and Evaluation of a Social AI Bot for Empathetic Support in  
Online Dementia Healthcare Community  
Yanzhen Jason Yue, Yi Chen, Chee Seng Chong, Xiangming  
Landy Lan, Singapore

**DAY 2**

**IHIET 1**

**Salzburg**

**SESSION 8**

**Human-centered Design and User Experience**

**Wednesday,  
August 27**

Session Chair(s): Benedikt Salzbrunn, Austria and Amir Behzadan,  
United States

**9:00 -  
10:00 (CEST)**

Exploring and Understanding Neurodiverse Sensory Experiences  
and Management Through Digital Intervention  
Radhika Joglekar, Gail Hopkins, United Kingdom

User-Centered Design and Usability Evaluation of a Floodwater  
Depth Estimation Mobile Application  
Amir Behzadan, Renooh Sivakumar, United States

Designing with 'Intelligence'? Exploring the Limits of AI-Based UX  
Tools  
Benedikt Salzbrunn, Saskia Huemer, Austria

	<p>Multibody Simulation Framework for Human-Machine Interaction in Impact Wrench Fastening: Enabling Reliability and Work-Related Health Risk Assessment  Felix Leitenberger, Johannes Sanger, Jonas Hemmerich, Tobias Kretschmer, Patrick Haberkern, Niklas Frank, Albert Albers, Patric Grauberger, Markus Doellken, Sven Matthiesen, Germany</p>
	<p>Generative AI for Sustainable and Efficient Layout Designs  Javier Fernandez Troncoso, Santiago Munos Landin, Ramon Angosto Artigues, Eero Anttila, Juha Maunula, Andrea Fernandez Martinez, Spain</p>
	<p>Machine Learning for User-Dependent Ankle Joint Torque Estimation: An Application of XGBoost  Thomas Mokadim, Franck Geffard, Aurore Lomet, Bruno Watier, France</p>
	<b>10:00 - 10:30 • Sessions Break</b>
<b>DAY 2</b>	<b>Vienna IHiet 3</b>
<b>SESSION 10</b>	<b>Augmented, Virtual and Mixed Reality Simulation II</b>
<b>Wednesday, August 27</b>	<p>Session Chair(s): Youssef Ibrahim, Austria and Jendrik Bulk, Germany</p>
<b>10:30 - 11:30 (CEST)</b>	<p>Evaluating a Refined Augmented Reality Eye-Gaze and Voice Control System for Electric Wheelchairs: A User Study  Jendrik Bulk, Benjamin Tannert, Germany</p>
	<p>A scalable MR-training system to prepare military and civil experts for crisis areas  Elisabeth Broneder, Christoph Wei, Jaison Puthenkalam, Youssef Ibrahim, Markus Karlseder, Daniela Weismeier-sammer, Nathan Coyle, Monika Psenner, Astrid Holzinger, Austria</p>
	<p>Experiences of Nursing Students from Using an Omnidirectional Pad vs Touch Controllers to Navigate a Virtual Clinical Simulation  Benjamin Botha, Lizette De Wet, South Africa</p>
	<p>Virtual Reality Sensory Rooms: A Tool to Reduce Anxiety in Autistic Adults  Katie Potts, Phillip Smith, Mohammed Bahja, United Kingdom</p>
<b>DAY 2</b>	<b>Salzburg IHiet 4</b>
<b>SESSION 11</b>	<b>Wearable Technologies, Social and Affective Computing II</b>
<b>Wednesday, August 27</b>	<p>Session Chair(s): Mahnaz Asgharpour, Italy and Evani Dalal, United States</p>
<b>10:30 - 11:30 (CEST)</b>	<p>Intelligent Elbow Exoskeleton Control: A Neural Network-Based Framework for Optimized Performance  Mahnaz Asgharpour, Roberto Pitzalis, Olmo Alonso Moreno Franco, Luigi Monica, Darwin Caldwell, Jesus Ortiz, Italy</p>

Towards the Design of Transformation: a Review of Transformative VR Experiences Bruno Giesteira, Tiago Alves, Portugal		
A Biofeedback-Driven Interaction System for Real-Time Stress Detection and Intervention Sofia Vaca Narvaja, Evani Dalal, Minyuan Dong, Yuxin Ni, Ian Gonsher, United States		
DAY 2	Graz	IHIET 5
SESSION 12	UX Design and Human Perception: AI and Virtual Reality	
Wednesday, August 27	Session Chair(s): Petra Maria Asprien, Switzerland and Renate Motschnig, Austria	
10:30 - 11:30 (CEST)	Trusting the Machine – The Role of Gender and Personality in Shaping the Propensity to Trust Artificial Intelligence Jona Karg, Janine Jäger, Petra Maria Asprien, Switzerland	
	On Integrating Digital Competencies into German Teacher Training: An Interdisciplinary Approach Martina Turecek, Roland Ambros, Renate Motschnig, Austria	
	Advancing Occupational Exoskeletons: Usability Assessment of a Minimalist Calibration Interface Olmo Alonso Moreno Franco, Christian Di Natali, Luigi Monica, Darwin Caldwell, Jesus Ortiz, Italy	
11:30 - 12:00 • Sessions Break		
DAY 2	Vienna	IHIET 7
SESSION 13	Workshop: Emerging Disruptive Technologies Focused Strategy	
Wednesday, August 27	Workshop: Emerging Disruptive Technologies focused strategy: a constraint management approach Pedro Água, Anacleto Correia, José Bartolomeu, Portugal	
12:00 – 13:00 (CEST)		

<b>DAY 2</b>	<b>Salzburg</b>	<b>IHIET 1</b>
<b>SESSION 14</b>	<b>Human-centered Design: Decoding User Preferences</b>	
<b>Wednesday, August 27</b>	Session Chair(s): Timo Savolainen, Finland and Juyoung Kim, Korea (South)	
<b>12:00 - 13:00 (CEST)</b>	Commute time analysis using mobile location information Juyoung Kim, South Korea	
	Creating Safer Learning Environments Through Universal Design for Learning Framework Timo Savolainen, Terhi Kärpänen, Finland	
	Integrating Model-Based Systems Engineering and Stakeholder-Driven Design Exploration: A Virtual Reality Approach for Early-Stage System Development Sarah Rudder, Michael Preutenborbeck, Paul Weiser, United States	
	Digital vulnerabilities and the oldest-old Chris Wales, Ingvar Tjostheim, Norway	
	Emotion-Based Memory and Decision System for Non-Humanoid AI Agents Zhibing Lin, China	
	Tracing Human-Centered Design in Innovative High-Tech Settings: a Human Readiness Level Assessment of an Autonomous Ferry and Remote Control Concept Hedvig Aminoff, Sweden	
	Exploring User Behavior and Validation Proficiency in Assessing Responses from a Conversational Agent Jiayin Huang, Jonggi Hong, United States	
<b>DAY 2</b>	<b>Graz</b>	<b>IHIET 7</b>
<b>SESSION 15</b>	<b>Emerging Technologies and Business Applications II</b>	
<b>Wednesday, August 27</b>	Session Chair(s): Vladimira Lipsova, Czech Republic and Michael Franklin, United States	
<b>12:00 - 13:00 (CEST)</b>	Automated 3D Ergonomic Assessment from a Single Standard Camera for Confirmation of Work Overload of Lumbar Spine Vladimira Lipsova, Czech Republic	
	Delivery service and omni-channel online-and-offline for retail collaborative recommendations Shu-hsien Liao, Jian-Ming Huang, Taiwan	
	Pharmaceutical Innovation using Graph Structure Matching Michael Franklin, United States	

Transforming Accounting Education in the Age of Artificial Intelligence: Bridging the Skills Gap with Intelligent Learning Systems

Dave Fallon, Fateha Shaheen, Fleur Justine Middlebrough, United Kingdom

A Multi-Perspective AI Framework for Mitigating Disinformation Through Contextual Analysis and Socratic Dialogue

Manuel Delaflor, Carlos Toxtli, United States

Learning to Repair Through AI-Driven Geometry Reconstruction for Sustainable Manufacturing

Sondos Jaziri, Andrea Fernandez Martinez, Johan Vallhagen, Santiago Muiños Landín, Spain

## End of Day 2 Sessions

### Conference Dinner Event

Special Event Sponsored by Department of the Mayor and Governor of Vienna (Rathaus - Vienna City Hall)

Wednesday,  
August 27  
17:00-20:00



Conference Dinner: 17:00-20:00, Wednesday, August 27.  
Location: 10-er Marie (Vienna's oldest Tavern/ Heurigen, since year 1740 - Traditional Austrian Cuisine, More info)

Address: 222, 224, 1160 Wien, Austria

*Complementary social event for all registered conference participants.*

## NOTES:





# Poster Demonstrations

## SESSION Tuesday - Wednesday, August 26-27 [10:30 - 13:00]

**A-1**

Effect of Wearing Shoes on Two-Handed Exertion Strengths in Different Exertion Heights and Exertion Angles

Hsinhung Tu, Yung-Ping Liu, Taiwan

**A-2**

Exploring the Differences in 3D Mental Rotation Performance Between Parkinson's Disease Patients and Healthy Elderly Individuals

Minsheng Chen, Taiwan

**A-3**

Investigating the Driving Performance of Stroke Survivors Across Different Road Events and Types of Assistive Information

Wei-Ru Chen, Yang-Kun Ou, Taiwan

**A-4**

Impact of Physical-Virtual Distance Disparities on Reading Performance in Augmented Reality Environments

Kang-Hung Liu, Taiwan

**A-5**

Effects of display type and ambient illuminance on users' performance, subjective preference and visual fatigue using Augmented Reality

An-Hsiang Wang, Yuan-Wei Lu, Huang Pang Fang, Iling Shao, Taiwan

**A-6**

Driver situation awareness before lane changes

Marijke Van Weperen, Jan Souman, Dehli Willemsen, Susanne Louvenberg, Netherlands

**A-7**

The influence of Chinese calligraphy on cultural and creative product design: A perspective of emotional preferences

Cheng Ma, Huajie Wang, China

**A-8**

Dig!self: a socio-technical framework for self-regulated learning for the development of digital competences in teacher training

Michael Jemetz, Austria

**A-9**

Improving the Accuracy for Biometrics using External Auditory Canal

Takeshi Hamasaki, Jo Kawabata, Yujie Li, Yoshihisa Nakatoh, Japan

**A-10**

Technologies for safety helmet detection on motorcycles

María Del Carmen Rey Merchán, Antonio Lopez Arquillos, Jesús Gómez De Gabriel, Juan Antonio Fernández Madrigal, Spain

**A-11**

Optimizing Augmented Reality Displays for Culinary Guidance: Investigating High-Contrast Effects in Human-Machine Interface

Yuchen Yeh, Yucheng Lin, Taiwan

**A-12**

Design and Fabrication of a Specialized Haptic Feedback Device for Enhanced Human-Computer Interaction

Chen-Tsai Yang, Chingyu Liu, Jian-Shiun Ju, Athena Yang, Taiwan



# **Call for Papers**

**Please join us for the**

**16<sup>th</sup> International Conference on  
Human Interaction and  
Emerging Technologies  
(IHIET-AI 2026)**

**Artificial Intelligence &  
Engineering Applications**

**April 23-25, 2026**

**Universitat Politècnica de València  
Valencia, Spain**

**[WWW.IHIET-AI.ORG](http://WWW.IHIET-AI.ORG)**





# **Call for Papers**

**Please join us for the**

**17<sup>th</sup> International Conference on**

**Human Interaction and  
Emerging Technologies  
(IHIET-FS 2026)**

**Future Systems &  
Design Applications**

**June 10-12, 2026**

**Università degli Studi di Palermo  
Sicily, Italy**

**[WWW.IHIET-FS.ORG](http://WWW.IHIET-FS.ORG)**

# **Call for Papers**

**Please join us for the**

**18<sup>th</sup> International Conference on  
Human Interaction and  
Emerging Technologies  
(IHIET 2026)**

**August 26-28, 2026**

**Kodolányi János University  
Budapest, Hungary**

**[WWW.IHIET.ORG](http://WWW.IHIET.ORG)**

