

# 2015 International

7<sup>th</sup> International Conference on **Intelligent Human Systems Integration:**Integrating People and Intelligent Systems

# Final Program February 22-24, 2024

Università degli Studi di Palermo Palermo, Italy

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## Conference Reception and Banquet February 22, 18:30 - 22:00 (CET)

#### **IHSI 2024 International Conference**

Università degli Studi di Palermo Department of Architecture Building 14

Address: Viale delle Scienze, 19/Ed. 14, 90128 Palermo PA, Italy

Conference Reception: 18:30 - 22:00 February 22, 2024

Location: Le Terrazze del Sole a Palermo

Address: Via Vittorio Emanuele, 291, 90100 Palermo PA, Italy (Registered Participants only - Dress: Business Casual , Photo ID Required)

# Conference

#### **ORGANIZING CONFERENCE CO-CHAIRS**

Dario Russo (Università degli Studi di Palermo), Italy Giuseppe Di Bucchianico (Università di Chieti-Pescara), Italy

#### CONFERENCE SCIENTIFIC ADVISOR

Alberto Vergnano (University of Modena and Reggio Emilia), Italy

#### TECHNICAL PROGRAM CHAIRS

#### IHSI 1: AUTOMOTIVE DESIGN AND TRANSPORTATION ENGINEERING

Chair: Alberto Vergnano (University of Modena and Reggio Emilia), Italy

**IHSI 2: HUMANS AND ARTIFICIAL COGNITIVE SYSTEMS** 

Chair: Darko Etinger (Juraj Dobrila University of Pula), Croatia

**IHSI 3: INTELLIGENCE TECHNOLOGY AND ANALYTICS** 

Chair: Tihomir Dovramadjiev (Technical University of Varna), Bulgaria

**IHSI 4: COMPUTATIONAL MODELING AND SIMULATION** 

Chair: Darko Etinger (Juraj Dobrila University of Pula), Croatia

**IHSI 5: Humans and Artificial Systems Complexity** 

Chair: Darko Etinger (Juraj Dobrila University of Pula), Croatia

**IHSI 6: SMART MATERIALS AND INCLUSIVE HUMAN SYSTEMS** 

Chair: Stefania Camplone (University of Chieti-Pescara), Italy

**IHSI 7: HUMAN-AUTONOMY TEAMING** 

Chair: Axel Schulte (Universität der Bundeswehr München), Germany

**IHSI 8: Applications and Future Trends** 

Chair: Giuseppe Di Bucchianico (University of Chieti-Pescara), Italy

Acronym	Track
IHSI 1	Automotive Design and Transportation Engineering
IHSI 2	Humans and Artificial Cognitive Systems
IHSI 3	Intelligence Technology and Analytics
IHSI 4	Computational Modeling and Simulation
IHSI 5	Humans and Artificial Systems Complexity
IHSI 6	Smart Materials and Inclusive Human Systems
IHSI 7	Human-Autonomy Teaming
IHSI 8	Applications and Future Trends

# Conference at a Glance



Hybrid conference program schedule is listed in Central European Standard Time (CET) - Palermo Timezone

#### Friday, Feb 23

#	TITLE	Rоом	TRACK	
	Session Time: 9:00-10:30 (CET)			
1	Transportation Engineering: Automotive Design I	Roma	IHSI 1	
2	Humans and Artificial Cognitive Systems I	Milan	IHSI 2	
3	Intelligence, Technology and Analytics I	Venice	IHSI 3	
	10:30-11:00 • Sessions Break			
Session Time: 11:00 - 12:30				
4	Computational Modeling and Simulation I	Roma	IHSI 4	
5	Humans and Artificial Systems Complexity I	Milan	IHSI 5	
6	Smart Materials and Inclusive Human Systems	Venice	IHSI 6	
	12:30 - 13:00 • Sessions Break			
	Session Time: 13:00 -14:00			
7	Human-Autonomy Teaming I	Roma	IHSI 7	
8	Applications and Future Trends: AI and Inclusive Human Systems	Milan	IHSI 8	
10	Humans and Artificial Cognitive Systems II	Venice	IHSI 2	

#### Saturday, Feb 24

#	TITLE	Room	TRACK	
	Session Time: 9:00-10:30 (CET)			
11	Intelligence, Technology and Analytics II	Roma	IHSI 3	
12	Computational Modeling and Simulation II	Milan	IHSI 4	
13	Humans and Artificial Systems Complexity II	Venice	IHSI 5	
	10:30-11:00 • Sessions Break			
Session Time: 11:00 - 12:30				
14	Workshop: Participatory Exploration and Design of Human-Al Cooperation	Roma	IHSI 7	
15	Applications and Future Trends: Simulation and Virtual Reality	Milan	IHSI 8	
17	Applications and Future Trends: User Experience	Venice	IHSI 8	
	12:30 - 13:00 • Sessions Break			
Session Time: 13:00 -14:00				
18	Applications and Future Trends: Eye Tracking and Al	Roma	IHSI 8	
19	Design, Applications and Future Trends	Milan	IHSI 8	

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	1	<b>Transportation Engineering: Automotive Design I</b> Session Chair(s): Birsen Donmez, Canada and Miriam Schäffer, Germany	IHSI 1	
	9:00 - 10:30 - ROMA	Training to Support Appropriate Reliance on Advanced Driver Assistance System Chelsea Deguzman, Birsen Donmez, Canada Automotive human machine interface to use like a peripersonal space through the elbow using vibrotactile stimulation Tomokazu Furuya, Takeshi Kawashima, Japan Analysis of Physical Readiness for Take-Over in Automated Driving — Approach to Classify Non-Driving Related Activities According to Their Level of Complexity Miriam Schäffer, Felix Unselt, Wolfram Remlinger, Germany Navigating the challenges of remote operations of automated road vehicles: A socio-technical perspective Jonas Andersson, Mikael Söderman, Sweden Requirements for Haptic Virtual Training Systems in the Automotive Industry Michael Preutenborbeck, Friedrich Wolf-Monheim, Eilís Carey, Pasquale Canu, Nicolas Daniel Herzberger, Frank Flemisch, Germany User-centred planning for rail vehicles to increase efficiency Bernhard Rueger, Austria Exploring External Human Machine Interface Design for Autonomous Vehicle to Pedestrian Communication: Insights from Discussions and Drawing Sessions Ali Alhawiti, Valerian Kwigizile, Jun-seok Oh, Zachary D Asher, Obaidullah Hakimi, United States		
	2	Humans and Artificial Cognitive Systems I Session Chair(s): Alexander Streicher, Germany and Patrice Renaud, Canada	IHSI 2	
simulator studies  Marcel Usai, Philip Schäfer, Nicolas Daniel Herzberger, Frank Experimental study on the effect of micro-refresh during office to restore intellectual concentration decline  Kento Nomura, Takuto Higashimaki, Reika Abe, Kimi Ueda, Hiroshi Shimoda, Fumiaki Obayashi, Japan  Cognitive User Modeling for Adaptivity in Serious Games  Alexander Streicher, Kolja Bauer, Germany  Cognitive Systems Challenges of Virtual Reality (VR) and Sim Control Environment (SATCE) in Flight Training: The Purdue Co		Marcel Usai, Philip Schäfer, Nicolas Daniel Herzberger, Frank Flemisch, C Experimental study on the effect of micro-refresh during office work in V to restore intellectual concentration decline  Kento Nomura, Takuto Higashimaki, Reika Abe, Kimi Ueda, Hirotake Ishi Hiroshi Shimoda, Fumiaki Obayashi, Japan  Cognitive User Modeling for Adaptivity in Serious Games Alexander Streicher, Kolja Bauer, Germany  Cognitive Systems Challenges of Virtual Reality (VR) and Simulated Air To Control Environment (SATCE) in Flight Training: The Purdue Case Study Dimitrios Ziakkas, Linda Tomko, Dimitra Eirini Synodinou, United States  First Probe into Frontal EEG Dynamic Cross-Entropy Associated with Virtu Sexual Content  Mathieu Brideau-Duquette, Sara Saint Pierre Côté, James Pfaus, Patrice Renaud, Canada  The Neural Algebra and its Impact on Design and Test of Intelligent Systems	Germany /R space i, raffic	

3	Intelligence, Technology and Analytics I Session Chair(s): Justin Nelson, United States and Ryunosuke Fukada, Japan	IHSI 3	
9:00 - 10:30 - VENICE	Temporal Analysis Method to Visualize Changes in Alternative Uses Test Performance Ryunosuke Fukada, Kimi Ueda, Hirotake Ishii, Hiroshi Shimoda, Japan Can Structured Analytic Techniques enhance Intelligence, Surveillance, a Reconnaissance (ISR) Assessments when providing Incremental Informa Justin Nelson, Anna Maresca, Bradley Schlessman, United States A Methodological Examination of Attitudes Toward Emerging Science an Technology Kyoko Ito, Kazune Ezaki, Tomiko Yamaguchi, Japan IDS with hybrid sampling technique: combination over and under-sampitechnique and comparison with deep convolutional approach Davy Ghislain Vlavonou, Isckyros Gangbo, Thierry Nsabimana, Christian Bimenyimana, Perpetus Jacques Houngbo, Joël T. Hounsou, Fulvio Frati, Benin Design of Learning History Retention Framework using Blockchain Infrastructure to Ensure Reliability of Learning Logs Satoshi Togawa, Akiko Kondo, Kazuhide Kanenishi, Japan Mobile Application for Job Recommender System Connecting Students a Startups/SMEs for Practical Experience and Skill Development Noura Alhakbani, Saudi Arabia Math Game for Elementary School Children Using Leap Motion Controlle Abeer Alnafjan, Saudi Arabia	ation d ling and	
10:30 - 11:00 • Sessions Break			
4	Computational Modeling and Simulation I Session Chair(s): Arno Hartholt, United States and Akihiko Hanafusa, Japan	IHSI 4	
	Introduction to human body model used for evaluating welfare and med devices  Akibiko Hanafusa, Japan	lical	

11:00 - 12:30 - ROMA

Akihiko Hanafusa, Japan Multidisciplinary Research & Development of Multi-Agents and Virtual Humans Leveraging Integrated Middleware Platforms

Arno Hartholt, Andrew Leeds, Ed Fast, Edwin Sookiassian, Kevin Kim, Sarah Beland, Pranav Kulkarni, Sharon Mozgai, United States

3D Reconstruction Method Using A Pendulum RGB-D Camera

Shigeaki Futagami, Kimi Ueda, Hirotake Ishii, Hiroshi Shimoda, Japan

Integrated Eye-Tracking and EEG Data Collection and Synchronization for Virtual Reality-Based Spatial Ability Assessments

Faezeh Salehi, Moein Razavi, Mason Smith, Manish Dixit, United States

Indirectly determined maximal cardiac output in men and women with different physical activity

Novák Jaroslav, Milan Stork, Czech Republic

**Humans and Artificial Systems Complexity I** 5 Session Chair(s): Bettina Harriehausen Mühlbauer, Germany and IHSI 5 Stefan Neubauer, Germany Integrating Rasmussen's SRK Taxonomy in a Future Fighter Cockpit Design **Process** Stefan Neubauer, Simon Schwerd, Axel Schulte, Germany The importance of crowdsourcing in the development of a navigation app for mobility impaired users Bettina Harriehausen-Mühlbauer, Germany How does it work? Collecting mental models for the user-centered design of assistance systems: a construction machinery case study Theresa Prinz, Rutuja Joshi, Philipp Ehrle, Klaus Bengler, Dominik Hujo, Marius Krüger, Birgit Vogel-Heuser, Sebastian Beerkircher, Cornelia Kerausch, The Role of Artificial Intelligence in weather prediction, flight planning, route optimization and scheduling. Abner Flores, Dimitrios Žiakkas, Konstantinos Pechlivanis, United States An Automated Activity Determination in the Temporal Domain for Adaptive Pilot Assistance Karl Tschurtschenthaler, Axel Schulte, Germany Factors influencing the use of shared stroller rentals in scenic spots—an extension based on the UTAUT model Yu Xin Jiang, Xun Chen, Xu Li, China The effect of visual and auditory channel interaction on cognitive performance in online education Yingliang Sun, Wenyu Wu, Ke Zhu, Hao Huang, Jiayu Guo, Yilian Li, China Smart Materials and Inclusive Human Systems 6 IHSI 6 Session Chair: Stefania Camplone, Italy Design Process for Technological and Meaningful Innovation: A Case Study of Light Solar Design Lab Stefania Camplone, Alessio D'Onofrio, Antonio Marano, Ivo Spitilli, Italy Strategic Design for mobility: Study of a methodology for the analysis of user behavior and choices regarding mobility Samuele Morvillo, Salvatore Di Dio, Benedetto Inzerillo, Daniele Ronsivalle, La Gennusa Maria, Italy Trends of Virtual Simulation Technology in Clothing Design Zichan Wang, China Model-based Systems Engineering (MBSE) Enterprise Architecture Framework (EAF) with Human System Integration (HSI) - A Smart-City (SC) Case Study Sarah Rudder, United States

	12:30 - 13:00 • Sessions Break	
7	<b>Human-Autonomy Teaming I</b> Session Chair(s): Rune Stensrud, Norway and Fabio Paternò, Italy	IHSI 7
13:00 -14:00 - ROMA	Situation awareness training as a prerequisite for handling complexity in Human-autonomy teaming: Demonstration and experiment proposal Rune Stensrud, Sigmund Valaker, Aleksander Simonsen, Olav Rune Num Norway  An Approach to Explainable Automations in Daily Environments Sara Maenza, Andrea Mattioli, Fabio Paternò, Italy Improving Intelligent Agent Teaming Performance through Transparency Reliability Varies: a Cross-Cultural Study Leon Wang, China Beyond Levels of Automation: Human System Modes, Levels, Functions a Patterns for an Intelligent Human Systems Integration of Humans and Co-Systems Frank Flemisch, Nicolas Daniel Herzberger, Marcel Usai, Joscha Wasser, Gold Automation versus machine autonomy Laura Burzagli, Italy Preferences for the decision weight and accountability assignment in risk	when and ermany
	decision-making under human-machine collaboration contexts	

Safety boundary conditions for human machine interface design of medium

Wei Xiong, Liuxing Tsao, Liang Ma, China

Fenghe Liang, Quan Yuan, China

level intelligent vehicle

Applications and Future Trends: AI and Inclusive Human Systems 8 Session Chair(s): Stefania Camplone, Italy and Anna Dhungel, IHSI 8 Germany Design Process for Technological and Meaningful Innovation: A Case Study of Light Solar Design Lab Stefania Camplone, Alessio D'Onofrio, Antonio Marano, Ivo Spitilli, Italy Using Machine Learning for Anomaly Detection in German Public Budgeting Data Anna Katharina Dhungel, Lea Sophie Watermann, Christiane Wegner, Moreen Heine, Germany 13:00 -14:00 - MILAN Requirements Reuse in Complex European Security Research Projects - a **Border Management Perspective** Laura Salmela, Jari Laarni, Antti Väätänen, Sirra Toivonen, Finland Analyzing the symbolic significance of Angelopoulos' films from the perspective of semiotics Hanzhang Dong, USA Strategic Design for mobility: Study of a methodology for the analysis of user behavior and choices regarding mobility Samuele Morvillo, Salvatore Di Dio, Benedetto Inzerillo, Daniele Ronsivalle, La Gennusa Maria, Italy Headset gas sensor for non-invasive biomonitoring of blood EtOH Kohji Mitsubayashi, Geng Zhang, Kenta Ichikawa, Kenta Iitani, Koji Toma, Takahiro Arakawa, Japan **Humans and Artificial Cognitive Systems II** 10 Session Chair(s): Sigurd Schacht, Germany and Clement Galaup, IHSI 2 Canada Multimodal HCI: a review of computational tools and their relevance to the detection of sexual presence Clement Galaup, Lama Séoud, Patrice Renaud, Canada Magenta: Metrics and Evaluation Framework for Generative Agents based on LLMs Sudarshan Kamath Barkur, Pratik Sitapara, Sven Leuschner, Sigurd Schacht, Germany A serious game for the cognitive stimulation of seniors Paula Escudeiro, Márcia Campos, Francisca Escudeiro, Nuno Escudeiro, 13:00 -14:00 - VENICE Cognitive efforts associated with spatial ability under altered spatial conditions: An eye-tracking study Faezeh Salehi, Fatemeh Pariafsai, Manish Dixit, United States Decoding Internal Decision Making During Reverse Engineering Tasks Brianna Marsh, Jocelyn Rego, Mia Levy, Mitchell Sayer, Alex Waagen, Aidan Barbieux, Edward Cranford, Don Morrison, Froylan Maldonado, J eremy Johnson, Joseph Divita, Jonathan Buch, Evelyn Kim, Christian Lebiere, Sunny Fugate, Rajan Bhattacharyya, United States Development of systematic measurement technology for girls' breast size based on humanistic technology Yulin Zhao, China Ensuring Fast Interaction with HMI's for Safety Critical Systems - An Extension of the Human-Machine Interface Design Method KONECT Marcel Saager, Alexander Steinmetz, Jan-patrick Osterloh, Anja Naumann,

End of Day 1 Technical Sessions

Axel Hahn, Germany

	Saturday,		
11	Intelligence, Technology and Analytics II Session Chair(s): Antero Karvonen, Finland and Monica Daniela Gomez Rios, Ecuador	IHSI 3	
9:00 - 10:30 - ROMA	Design Systems for Intelligent Technology Mari Myllylä, Antero Karvonen, Hanna Koskinen, Finland Design of an augmented reality software tool to improve user interaction awareness in geolocation platforms. Monica Daniela Gomez Rios, Alejandro Drouet, Miguel Angel Quiroz Mar Ecuador Comparative Analysis of a Machine Learning model for Water Quality forecasting of the Guayas River based on the Internet of Things Galo Enrique Valverde Landivar, David Perez, Ecuador Recommendations for the use of resilience matrix in healthcare institution Kenta Nakayama, Kenji Watanabe, Japan Comparative analysis for the selection of a virtualization tool using the A Model Monica Daniela Gomez Rios, Bryan Acosta, Jos Rosales, Miguel Angel Quiroz Martinez, Ecuador Secure and intelligent Mobile App for KSA Tourism Kahkashan Tabassum, Saudi Arabia Application of Artificial Intelligence for Talent Management: Challenges and Opportunities Mohammad Rashed Khan, United Kingdom	ons	
12	Computational Modeling and Simulation II Session Chair(s): Sandra Mateus, Colombia and Shuai Ding, China	IHSI 4	
9:00 - 10:30 - MILAN	Computational Aesthetics-based Model Evaluation Method for Industrial Shuai Ding, Beibei Sun, China  Development of a Video Game for Cognitive Stimulation in Early-Stage Alzheimer's Disease Sandra Mateus, Jorge Giraldo, Daniel Ramírez, Claudia Ramos, Colombia Optimal Voltage Regulation on Medium Voltage Line In Rural Area Using DIgSILENT Galo Enrique Valverde Landivar, Ervin Solano, Roy Santana, Ecuador Optimization of the temperature field inside a forced convection oven Zhen Yan, Minhua Chen, Hao Chen, Yan Zhang, China	3	
13	Humans and Artificial Systems Complexity II Session Chair(s): Dimitrios Ziakkas, United States and Benedetta Terenzi, Italy	IHSI 5	
9:00 - 10:30 - VENICE	Interaction between designers and AI: literature review of research to high the characteristics of co-creation and methods for analyzing it Elena Cavallin, Italy  Human-AI Interaction: An Analysis of Anthropomorphization and User Engagement in Conversational Agents with a Focus on ChatGPT Gustavo Simas, Vânia Ribas Ulbricht, Brazil  Connection between AI and product design - Potentials and critical issue the text-to-image software-assisted design experience  Benedetta Terenzi, Valeria Menchetelli, Giacomo Pagnotta, Ludovica Avaltaly  The role of digital twins in the certification of the Advanced Air Mobility (systems  Dimitrios Ziakkas, Marc St-Hilaire, Konstantinos Pechlivanis, United State A preliminary analysis of a nuclear power plant startup for a physics-base model of a digital twin  Awwal Arigi, Ibrahim Aliyu, Jinsul Kim, Norway	es in allone, (AAM)	
	10:30 - 11:00 • Sessions Break		

14	Workshop: Participatory Exploration and Design of Human-Al Cooperation Session Chair: Marcel Usai, Germany	IHSI 7		
11:00 - 12:30 ROMA	Participatory Exploration and Design of Human-Al Cooperation Marcel Usai, Joscha Wasser, Michael Preutenborbeck, Frank Flemisch, Germany			
15	Applications and Future Trends: Simulation and Virtual Reality Session Chair(s): Michael Preutenborbeck, Germany and Maria Moga, Romania	IHSI 8		
11:00 - 12:30 - MILAN	Haptics in Virtual Assembly Systems: Insights into the Current State of Research Michael Preutenborbeck, Frank Flemisch, Nicolas Daniel Herzberger, Germany Character Development: Bridging Digital and Traditional Drawing Techniques Maria Moga, Dan Radu Moga, Romania Emerging Technologies in Aviation: The Simulated Air Traffic Control Environment (SATCE) application in Competency Based Training and Assessment. Dimitrios Ziakkas, Neil Waterman, Abner Flores, United States The Application of AR VR, and MR Technologies in the Museum Field: A Bibiometric Analysis from 2014 to 2023 Yu Xiao, Yong Wang, Zhiguo Fang, China Virtual Reality in Museum: Exploring the User Experience of Exhibition Narrative Xin Hu, Po Hsun Wang, Macau Sar China Feasibility and Effectiveness of 2D Highlighting Methods Applied in 3D Modeling Hui Meng, Xiaojun Liu, China			
17	Applications and Future Trends: User Experience Session Chair(s): Davide Gentile, Canada and Kurt Englmeier, Germany	IHSI 8		
11:00 - 12:30 - VENICE	User-Centered Models for Adaptive Learner Journeys in Self-Paced Learning Kurt Englmeier, Germany Enhancing Human Performance with Post-Hoc Explanations in Machine Learning-based Decision Support Systems Davide Gentile, Birsen Donmez, Greg Jamieson, Canada User experience and sustainability of person-centered services - A case study on caregiver workshops and services by a bar type of restaurant			
	12:30 - 13:00 • Sessions Break			

	Saturday,	1 CD 2-1	
18	Applications and Future Trends: Eye Tracking and Al Session Chair(s): Tauheed Khan Mohd, United States and Salvatore Di Dio, Italy	IHSI 8	
13:00 -14:00 - ROMA	Designing the Future: A Manifesto for Design Education Salvatore Di Dio, Dario Russo, Francesco Monterosso, Benedetto Inzerillo, Italy Comparative Analysis and Evaluation of the Accuracy of Pixels Observed using Tobii Eye Tracker 5 Logan Hansen, Maya Conway, Cody Byrd, Quinn Au, Tauheed Khan Mohd, United States Vol3DEdu: Volograms' Integration in Education Eleni Mangina, Hrishikesh Mulay, Konstantinos Amplianitis, Jan Ondřej, Rafael Pagés, Charalambos Vrasidas, Eftychia Xerou, Filippos Tzortzoglou, Alivizos Sofos, Ireland Implementation of Artificial Intelligence (AI) in global Electronic Pilot Licenses Dimitrios Ziakkas, Abner Flores, Hans C Natakusuma, United States Streaming applied to entertainment: analysis of the constant evolution of a perpetual industry Monica Daniela Gomez Rios, Eduardo Alvarado, Daniel Mora, Miguel Angel Quiroz Martinez, Ecuador		
19	<b>Design, Applications and Future Trends</b> Session Chair(s): Merle Lau, Germany and Liang Cao, China	IHSI 8	
13:00 -14:00 - MILAN	Bridging the Cognitive Gap: Optimizing Gesture Interaction Design for the Elderly Cao Liang, China Through the Lens of ZMET Technique: Unveiling the Emotional Value and Innovative Integration of Campus Cultural and Creative Products Jianhong Wang, Xin Hu, China Olfactory Profile: Enhancing the Satisfaction and Pleasure of Ride-Hailing Experiences Yang Liu, Qiu Jie J, China Sustainable Warehouse Optimization: Integrating Industrial Design and IoT Shervin Rezaei, Hamid Naghdbishi, Iran Design of waste plastic recycling facilities based on campus scenarios Xun Chen, Yuxin Jiang, Xu Li, China The Influence of Tourism Awareness on Behavior Akiko Kondo, Satoshi Togawa, Japan Digital Technology: As a Manner of Sustainable Transformation for Stakeholders in Cultural Inheritance Lu Wang, China		



## eracter D emonstrations

#### POSTER/DEMONSTRATION SESSIONS Friday-Saturday, February 23-24 (10:30 - 14:00)

Cyber Rehabilitation for the Elderly with Mild Cognitive Impairment A1. Ki Hwan Kim, Eun Sung Choi, Young Jin Kang, Seok Chan Jeong, South Korea

Evaluation of Styling Design of Heavy-duty Industrial Robots Based on A2. Comprehensive Integration Weighting Method Mingqi Li, Beibei Sun, China

Korean adolescent gambling addiction through text mining analysis A3. Soyoun Kim, Seon Kyeong Ahn, Ick-Joong Chung, South Korea

Can Virtual Reality Interventions Enhance the Mental Health of Korean A4. Adolescents and Young Adults? A Systematic Review

Jiyoung Yoon, Yeonjee Cho, Serim Lee, Jongserl Chun, South Korea

The impact of youth access to intelligent devices & services on social A5. participation

Ji Sun Lee, Lina Cui, Lee Yena, South Korea

The Future of Multi-Agent Systems in Space Operations: Ethics, Teaming, A6. and Performance

> Kiara Morales, Samantha Miles, Sara Scrapchansky, Liam Kettle, Rydia Weiland, Kyle Wolsten, Lydia Melles, Ewart De Visser, Elizabeth Phillips, Chad Tossell, United States

- Social capitals effect on life satisfaction among the elderly: Mediating A7. effects of digital information literacy & attitudes toward digital technology Lina Cui, Soo Bin Jang, Choong Rai Nho, South Korea
- Adaptation issues in refugee children in Korea: Views of practitioners, A8. refugee children and their parents using LDA topic modeling Soo Bin Jang, Lina Cui, Hyun Young Choi, Choong Rai Nho, South Korea

Can Claude AI pass Social Work Licensing Exam in South Korea?

A9. Jin Hyuk Lee, Ji Sun Lee, Hyunjee Jeong, South Korea A10. Enhancing Transparency and Efficiency in Urban Management: Integrating

Stochastic Models and Blockchain Technology

Pouriya Miri, Vlado Stankovski, Slovenia

A11. Statistical assessment of physico-chemical pollution of Sebou river in Mechraa Bel Ksiri, Morocco

Fariri Khalid, Hraira Thami, Ettaki Jalal, Doumi Khalid, Maaroufi Manal, Belghyti Driss, Ghizlane Ztit, Khadija El Kharrim, Morocco

A12. Bio-Al Metaverse Integration: Fusion of Surgical and Aerospace **Engineering** 

Janne Heilala, Finland

A13. Handgrip-strength prerequisite for gait improvement by a walking assistive powered-wear

Mizuho Sumitani, Yuko Otake, Yumeko Imamura, Fumiya Hanzawa, Kazuaki Kishimoto, Masahiko Sumitani, Japan



Please join us for the

8th International Conference on

### **Intelligent Human Systems Integration:**

**Integrating People and Intelligent Systems** 

## February, 2025

Sapienza Universita' di Roma Rome, Italy

