



2023
IHIET
International

10th International Conference on

**Human Interaction and
Emerging Technologies
(IHIET 2023)**

August 22-24, 2023

**Université Côte d'Azur
Nice, France**

Final Program

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IHIET 2023

Conference Reception

TUESDAY AUGUST 22, 2023 AT 18:00-22:00

**RECEPTION LOCATION: HYATT REGENCY NICE PALAIS DE LA MÉDITERRANÉE
13 PROM. DES ANGLAIS, 06000 NICE, FRANCE
(DRESS IS BUSINESS CASUAL, PHOTO ID REQUIRED)**

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

Conference Organization

Scientific and Technical Session: August 23-24, 2023

Location: Université Nice Sophia-Antipolis - St Jean d'Angély, Nice, France

Location: 24 Avenue des Diabes Bleus, 06300 Nice, France

CONFERENCE ADMINISTRATOR:

ADMIN[AT]IHIET.ORG

Scientific Tracks

ACRONYM	TRACK
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
IHIET 10	General

Conference at a Glance

Scientific and Technical Session: August 23-24, 2023

Location: Université Nice Sophia-Antipolis - St Jean d'Angély

Location: 24 Avenue des Diables Bleus, 06300 Nice, France

Wednesday - Thursday, August 23-24, 2023

#	SESSION TITLE	ROOM	TRACK
Day 1: Wednesday, August 23 - Session Time: 9:00 - 10:00 CEST			
1	Plenary: Human-computer Interaction	Paris	IHIET 5
10:00 - 10:30 • Sessions Break			
Day 1: Wednesday, August 23 - Session Time: 10:30 - 12:00 CEST			
2	Artificial Intelligence, Computing and Intelligent Design I	Paris	IHIET 2
3	Augmented, Virtual and Mixed Reality Simulation I	Reims	IHIET 3
4	Human-centered Design I	Strasbourg	IHIET 1
5	Human-computer Interaction I	Toulouse	IHIET 5
12:00 - 12:30 • Sessions Break			
Day 1: Wednesday, August 23 - Session Time: 12:30 -14:00			
6	Human-Technology and Future of Work I	Paris	IHIET 6
7	Emerging Technologies and Business Applications I	Reims	IHIET 7
8	Applications in Medicine and Healthcare I	Strasbourg	IHIET 8
End of Day 1 Sessions – Enjoy Lunch at the restaurant of your choice			
Day 2: Thursday, August 24 - Session Time: 9:00 - 10:30 CEST			
9	Management, Training and Business Applications	Paris	IHIET 9
10	Applications and Future Trends I	Reims	IHIET 10
11	Human-centered Design II	Strasbourg	IHIET 1
10:30 - 11:00 • Sessions Break			
Day 2: Thursday, August 24 - Session Time: 11:00 - 12:30 CEST			
12	Artificial Intelligence, Computing and Intelligent Design II	Paris	IHIET 2
13	Human-computer Interaction II	Reims	IHIET 5
14	Human-Technology and Future of Work II	Strasbourg	IHIET 6
12:30 - 13:00 • Sessions Break			
Day 2: Thursday, August 24 - Session Time: 13:00 -14:30			
15	Emerging Technologies and Business Applications II	Paris	IHIET 7
16	Human-centered Design III	Reims	IHIET 1
17	Human-computer Interaction III	Strasbourg	IHIET 5
End of Day 2 Sessions – Enjoy Lunch at the restaurant of your choice			

Detailed Program

DAY 1		Track	Room
SESSION 1	Plenary: Human-computer Interaction	ALL	Paris
Wednesday, August 23	Session Chair(s): Redha Taiar		
9:00 - 10:00 (CEST)	Plenary Speech: Understanding the Visual Aesthetics of Mobile Apps in Everyday Life Chei Sian Lee, Associate Chair, Nanyang Technological University, Singapore		
Plenary Summary: Despite the growing interest in interface design for mobile applications, research on Visual Aesthetics of Mobile Apps in Everyday Life has largely been unexplored. Incorporating visual aesthetics (VA) into mobile apps is critical as VA determines the pleasing qualities of a design, and ultimately, users' acceptance of the app. Specifically, this speech aims to fill this gap by studying perceptions of pleasing aesthetics in mobile interface designs for everyday use. The presentation will be based on a series of studies conducted to investigate the conceptualization, evaluation, perceptions and effects of pleasing aesthetics mobile interface design for everyday use. This speech will demonstrate that integrating and blending cute aesthetics in a mobile information use environment is a plausible approach to facilitate useful everyday information practices.			
 	Speaker Bio: Dr. Chei Sian Lee is currently an Associate Professor at the Wee Kim Wee School of Communication and Information at the Nanyang Technological University in Singapore, where she is also the Associate Chair (Faculty). She is actively involved in research on issues related to everyday user-information interaction at work, school or play. Specifically, her research focuses on how digital and emerging technologies can be designed to facilitate everyday user-information exchanges and be used to change social behaviors, benefit communities, and create social good. She has been involved in several funded projects in varying capacities as principal investigator, co-investigator and collaborator. More recently, she has been investigating the deepfakes phenomena from an information-oriented perspective. Her work has been widely published in international journals. Dr Lee is currently on the Editorial Advisory Board for Computers and Education, Online Information Review, The Electronic Library and Journal for STEM Education Research. Dr Lee received her B.Sc. and M.Sc. degrees in Computer and Information Sciences from the National University of Singapore and her PhD in Management Information Systems from the University of Illinois at Chicago, Liaudaud Graduate School of Business.		
10:00 - 10:30 • Sessions Break			

DAY 1		Track	Room
SESSION 2	Artificial Intelligence, Computing and Intelligent Design I	IHIET 2	Paris
Wednesday, August 23	Session Chair(s): Yurij Mikhalevich, United Arab Emirates and Marco Negri, Italy		
10:30 - 12:00 (CEST)	<p>CLIP-Based Search Engine for Retrieval of Label-Free Images Using a Text Query Yurij Mikhalevich, United States</p>		
	<p>Assessing Engagement of the Elderly in Active Listening from Body Movement Yuji Tanabe, Hiromitsu Shimakawa, Japan</p>		
	<p>Machines and cities. An evolving relationship in the age of artificial intelligence Otello Palmi, Marco Negri, Gabriele Lelli, Italy</p>		
	<p>Lip-Reading Research Based on ShuffleNet and Attention-GRU Yixian Fu, Yuanyao Lu, China</p>		
	<p>Simulating and Quantifying Inequality in Strategic Agent Networks Mayank Kejriwal, United States</p>		
	<p>Optimizing Rate of Penetration in Drilling Operations with Metaheuristic Algorithm Abdelhamid Kenioua, Omar Djebili, Algeria</p>		
	<p>Digital Primer Implementation of Human-Machine Peer Learning for Reading Acquisition: Introducing Curriculum 2 Daniel Hromada, Hyungjoong Kim, Germany</p>		

DAY 1		Track	Room
SESSION 3	Augmented, Virtual and Mixed Reality Simulation I	IHIET 3	Reims
Wednesday, August 23	Session Chair(s): Vadym Bilous, Germany and Alejandro Villar Rubio, Spain		
10:30 - 12:00 (CEST)	<p>Are SMEs Ready for AI Embedded Mobile Robots? Vadym Bilous, Kirill Sarachuk, Germany</p>		
<p>Buddy4All – A mixed reality-based solution for enabling intergenerational interaction Elisabeth Broneder, Christoph Weiß, Austria</p>			
<p>Virtual try-on of Additively Manufactured Orthosis via Augmented Reality Gustavo Menezes De Souza Melo, Chenyan Feng, Stefan Reich, Johannes Henrich Schleifenbaum, Germany</p>			
<p>User performance analysis in guided and non-guided stressful virtual reality scenarios Alejandro Villar, Carlos León, Spain</p>			
<p>Framework for Defining the Perspectives of the 3D Driving Visualization Interface for Driving Automation System-Engaged Vehicles Jun Li, Xuejiao Sun, Hejin Gu, Xingyao Su, Jifang Wang, China</p>			
<p>Can small and medium enterprises benefit from AR technology? Current challenges and trends Vadym Bilous, Kirill Sarachuk, Germany</p>			
<p>Imersive Virtual Reality during work out with movable sports equipment: the effect on oculomotor, disorientation, and nausea before and after training Oliver Christ, Michelle Deuber, Anina Gächter, Jordin Guedel, Andreas Papageorgiou, Switzerland</p>			

DAY 1	Track	Room
SESSION 4	Human-centered Design I	IHIET 1
Wednesday, August 23	Session Chair(s): Roberto Venditti, Italy and Ana Colim, Portugal	
10:30 - 12:00 (CEST)	Human Risk-Informed Design Framework (HURID) for integrating human factors in the design of systems and operations Barry Kirwan, Roberto Venditti, Simone Pozzi, United Kingdom	
	On the development of an ergonomic approach for the design of an industrial robotic coworker Ana Colim, André Cardoso, Estela Bicho, Luís Louro, Carla Alves, Pedro Ribeiro, Débora Pereira, Sérgio Monteiro, Néilson Costa, Paula Carneiro, Sacha Mould, João Oliveira, Duarte Fernandes, Pedro Arezes, Portugal	
	AI Technology, Holocaust Survivors, and Human Interactions at Holocaust Museums Cayo Gamber, United States	
	What happens in public transport, stays in public transport? Events in public transport and how they change travel choice through travel satisfaction Esther Bosch, Anna Ricarda Luther, Klas Ihme, Germany	
	Software Usability for Different Age Groups Naila Bushra, United States	
	Post-Pandemic Impact Analysis for airport processes from security to boarding – How to respond to the next pandemic Martin Jung, Axel B. Classen, Florian Rudolph, Germany	
	Designing 3D-Printed Smart-Sole Shoes for the Elderly: Examining Appearance Acceptance in Hong Kong Ling Cheung, Roger K.P. Ng, Simon Chow, Jim Luk, Rainbow Lee, Hong Kong Sar China	

DAY 1	Track	Room
SESSION 5	Human-computer Interaction I	IHIET 5 Toulouse
Wednesday, August 23	Session Chair(s): Kenneth Y T Lim, Singapore and Matvei Bryksin, United Kingdom	
10:30 - 12:00 (CEST)	<p>Designing for the investigation of microclimate stressors and physiological and neurological responses from the perspective of maker culture Minh Tuan Nguyen Thien, Minh Anh Nguyen Duc, Kenneth Y T Lim, Singapore</p>	
	<p>Industrial HMI design principles for highly automated manufacturing processes Matvei Bryksin, Nikita Vysotsky, Pavel Guseynov, United Kingdom</p>	
	<p>The Effect of An AI Model for Conceptual Similarity on Design Ideation in a Co-creative Design System Jingoog Kim, Mary Lou Maher, United States</p>	
	<p>Utilising state of the art eye tracking equipment to improve outcomes for maritime watchkeeper's on nocturnal navigational watches Abdul Khaliq, United Kingdom</p>	
	<p>Investigating the Effect of Interface Type on Embodied Interactions in 3D Gestural Human-Computer Interaction Ainsley Kyle, Katie Jurewicz, United States</p>	
	<p>Human-computer Interaction Evaluation Method for Nuclear Power Plant Control Room Based on Operator Physiological Characteristics Chenxiang Jiang, Shiguang Deng, China</p>	
	<p>Enhancing User Experience: Exploring the Interactions and Visualisation of Data Through Bullet Points and Typographic Design Amic Ho, Hong Kong SAR China</p>	
	12:00 - 12:30 • Sessions Break	

DAY 1		Track	Room
SESSION 6	Human-Technology and Future of Work I	IHIET 6	Paris
Wednesday, August 23	Session Chair(s): Sven Bendzioch, Germany and Arne Norlander, Sweden		
12:30 -14:00 (CEST)	Informational Assistance System – a Key to Self-Empowerment of Persons with Cognitive Disabilities in Manual Assembly? Sven Bendzioch, Sven Hinrichsen, Germany		
	Hybrid Cognitive Capabilities in EDGE Operations Arne Norlander, Sweden		
	Legal preconditions for sustainable remote work in EU in the time of emerging technologies Marta Urbane, Latvia		
	Respiratory Disease Diagnosis through Comprehensive Analysis of Spectrograms of Lung Sounds Takuma Mitsuke, Hiromitsu Shimakawa, Humiko Harada, Japan		
	Interactions between human, technology and organization in Building Information Modelling (BIM) - critical factors for the individual user Katarina Olofsson Hallén, Sweden		
DAY 1		Track	Room
SESSION 7	Emerging Technologies and Business Applications I	IHIET 7	Reims
Wednesday, August 23	Session Chair(s): Joerg Kleine-gung and Frederic Meyer, Germany		
12:30 -14:00 (CEST)	Pay-per-use models, the backbone of a sharing economy: How to stimulate a sustainable human-centered ecosystem success to achieve a faster Society 5.0 Joerg Kleine-Gung, Elizabeth Koumpfan, Germany		
	How to Generate Assembly Instructions with Robotic Process Automation Frederic Meyer, Sven Hinrichsen, Oliver Niggemann, Germany		

Quality Function Deployment
Implementation using Digital Twins
Paradigm
Remmon Sarka, Omid Fatahi Valilai,
Germany

A Framework For Assessing The Impact Of
Potential Disruptive Technologies In
Business
José Paulo Silva Bartolomeu, Pedro
Água, Portugal

Emerging technologies for carbon reduction
in building industry: Evidence from patent
inventions
Lingyue Li, China

Sustainability Aspects of Logistics and
Operation Fulfillment in Cloud
Manufacturing Systems
Noushin Mohammadian, Xiaotong Fan,
Omid Fatahi Valilai, Germany

An organizational and operational capability
and maturity assessment for SMEs in
emerging markets towards the ESG criteria
adaptation
Haseena Alkatheeri, Evangelos
Markopoulos, Hamdan Hamdan Al-Qayed,
United Arab Emirates

DAY 1

Track

Room

SESSION 8

Applications in Medicine and Healthcare

**IHIET
8**

Strasbourg

**Wednesday,
August 23**

**Session Chair(s): Marie Sjölander, Sweden
and Sanju Lama, Canada**

12:30 -14:00
(CEST)

Design of an mHealth application for
optimizing preoperative physical function
Marie Sjölander, Olov Ståhl, Elisabeth
Rydwik, Simon Torikka, Sweden

Framework of wearable device development
to measure occupants' physiological
response for occupant centered thermal
comfort control
Minjin Kong, Jongbaek An, Hyuna Kang,
Taehoon Hong, Minhyun Lee, South Korea

Detection of abnormalities in imaged lung
sounds based on deep learning
Shogo Matsumoto, Naoya Wakabayashi,
Hiromitsu Shimakawa, Humiko Harada,
Japan

Analysis of Clothing Features Improving Self-Esteem through Measuring Stress According to Activity Contexts

Yumi Kirii, Humiko Harada, Hiromitsu Shimakawa, Japan

Intelligent Moxibustion Instrument Based on Five-tone Therapy

Tianfeng Xu, Li Xu, China

The SmartForceps System and Interconnected Digital Operating Rooms

Sanju Lama, Michael Chow, Amir Baghdadi, Rahul Singh, Garnette Sutherland, Canada

End of Day 1 Sessions - Enjoy lunch at the restaurant of your choice

DAY 2

Track

Room

SESSION 9

Management, Training and Business Applications

**IHIET
9**

Paris

**Thu, August
24**

Session Chair(s): Eduards Aksjonenko, Latvia and Marko Schuba, Germany

9:00 - 10:00
(CEST)

What are the key components and contributing factors for effective feedback system for training programs within a field of business administration?

Eduards Aksjonenko, Airita Aksjonenko, Latvia

Training for Digital Forensics and Incident Response

Marko Schuba, Tim Höner, Sacha Hack, Germany

Modularized Platform for an Embedded Systems Case Study: Concept and Design

Vitus Lüntzel, Florian Schade, Martin Sommer, Eric Sax, Germany

Facilitating Active Listening Using Video-Conferencing: Success Factors, Challenges and Implications for Soft-Skills Training

Renate Motschnig, Austria

An exact solution approach for prioritised and nonprioritized trains scheduling problem

Zineb Lissioued, Samia Ourari, Algeria

DAY 2		Track	Room
SESSION 10	Applications and Future Trends I	IHIET 10	Reims
Thu, August 24	Session Chair(s): Shuichi Fukuda, Japan and Vladimira Lipsova, Czech Republic		
9:00 - 10:00 (CEST)	Mahalanobis Distance-Pattern Approach to Body Coordination in Motion Shuichi Fukuda, Japan		
	Occupational psychosocial risks identification and assessment at Labour Offices in the Czech Republic Vladimira Lipsova, Karolina Mrazova, Kateřina Bátorlová, Tomas Navratil, Martin Stepanek, Sergej Zacharov, Czech Republic		
	Industry 4.0 Technologies Implementation in Automotive Sector David Smolka, Zuzana Papulova, Slovakia		
	Innovative Personal Protective Equipment: Advantages and Disadvantages of Applying Artificial Intelligence Maria Rosaria Fizzano, Alessandro Ledda, Davide Giordani, Italy		
	Land Use and Land Cover Change and Associated Impacts on Cropland Dynamics over Central Asia Simon Measho Yhdego, China		
	Industry 4.0 Adoption – A Case of Manufacturing Companies David Smolka, Zuzana Papulova, Slovakia		
DAY 2		Track	Room
SESSION 11	Human-centered Design II	IHIET 1	Strasbourg
Thu, August 24	Session Chair(s): Maurício Randolfo Flores, Germany and Olmo Alonso Moreno Franco, Italy		
9:00 - 10:00 (CEST)	Human-centric decision for the Integrated Planning of Smart Port Systems Maurício Randolfo Flores Da Silva, Enzo Morosini Frazzon, Guilherme Luz Tortorella, Julia Cristina Bremen, Bruna Rigon De Oliveira, Brazil		

Design and Evaluation of A Wearable
Adaptable Setup System for Occupational
Exoskeletons

Olmo Alonso Moreno Franco, Daegeun
Park, Christian Di Natali, Luigi Monica,
Francesco Draicchio, Darwin Caldwell, Jesus
Ortiz, Italy

User Centered Design of a Digital Platform
for Therapeutic Education and Respiratory
Rehabilitation in Patients with Post-COVID-
19

Marco Santórum, Mayra Carrion Toro,
David Morales Martinez, Patricia Acosta
Vargas, Verónica Maldonado-Garcés, Gloria
Acosta-Vargas, Manuel Ayala-Chauvin,
Esteban Ortiz-Prado, Mario González-
Rodríguez, Ecuador

Towards Smart Building: Visualization of
Indoor CO2 Concentration. Adapting
Modern Computational Tools for Informing
Design Building Decisions

Anna Gelich, Jefferson Ellinger, United
States

The impact of automation frameworks on
today's data science competencies

Maike Holtkemper, Maria Potanin,
Christian Becks, Germany

Conceptual modeling for Human Systems
Integration in Manned-Unmanned Teaming

Tommy Langen, Gerrit Muller, Kristin
Falk, Norway

Exploring the Role of City Environment in
Meeting Emotional Needs of Individuals

Amic Ho, Ruth Chau, Hong Kong SAR
China

10:00 - 10:30 • Sessions Break

DAY 2		Track	Room
SESSION 12	Artificial Intelligence, Computing and Intelligent Design II	IHIET 2	Paris
Thu, August 24	Session Chair(s): Marco Stang, Germany and Shuichi Fukuda, Japan		
10:30 - 12:00 (CEST)	Unraveling Scenario-Based Behavior of a Self-Learning Function with User Interaction Marco Stang, Germany		
	Instinctive Intelligence: Our Next AI Shuichi Fukuda, Japan		
	Exploring the Potential of ChatGPT in Enhancing User Experience (UX) Writing Amanda Lentez, Gabriela Mager, Brazil		
	The learning curve and benefit of artificial intelligence for the built environment Xolile Mashwama, Siyabulela Dywili, Gift Phaladi, Clinton Aigbavboa, South Africa		
	Investigating Public IP Address Assignment in Infrastructureless Social Networks Amit Ramkissoon, Trinidad and Tobago		
DAY 2			
SESSION 13	Human-computer Interaction II	Track	Room
Thu, August 24	Session Chair(s): Fei-hui Huang, Taiwan and Mayra Carrión, Ecuador	IHIET 5	Reims
10:30 - 12:00 (CEST)	User Experience of a web-based platform that enables ethical assessment of Artificial Intelligence in the Public Sector Maria Tsourma, Noemi Luna Carmeno, Jaime Alessandro Codagnone, Sara Mancini, Jesper Krognos, Anastasios Drosou, Dimitrios Tzovaras, Greece		
	Determining the user experience and continuance use of a mobile application and an online portal Thobani Mhlongo, Lizette De Wet, Silas Verkijika, South Africa		

Investigating Consumers' Demand for Electric Scooter Usage Based on User-Product Interaction
Fei-Hui Huang, Taiwan

Telerehabilitation Platforms in times of COVID-19: Usability Evaluation
Mayra Carrion Toro, David Morales Martinez, Marco Santórum, Patricia Acosta Vargas, Verónica Maldonado-Garcés, Gloria Acosta-Vargas, Manuel Ayala-Chauvin, Esteban Ortiz-Prado, Mario González-Rodríguez, Ecuador

Towards accessibility in educational resources for respiratory therapies
Patricia Acosta Vargas, Marco Santórum, Mayra Carrion Toro, Gloria Acosta-Vargas, Verónica Maldonado-Garcés, Manuel Ayala-Chauvin, Esteban Ortiz-Prado, Camila Madera, Martin Saltos, Christian Tapia-Reyes, Wilmer Esparza, Mario González-Rodríguez, Ecuador

The Role of Visual Aesthetics in Emotional Response
Amic Ho, Hong Kong SAR China

DAY 2

Track

Room

SESSION 14

Human-Technology and Future of Work II

**IHIET
6**

Strasbourg

Thu, August 24

Session Chair(s): Vítor Conceição, Portugal and Dominik Hüsener, Germany

10:30 - 12:00 (CEST)

Decision-making while interacting with unmanned vessels
Vítor Fernando Plácido Da Conceição, Beatriz Sousa, Pedro Água, Joakim Dahlman, Portugal

Integrating Rule Based Expert Systems into a Simulation framework for digital twins
Dominik Hüsener, Jürgen Roßmann, Germany

Machine Vision, Prompts and Neural Network Structure in Art: Reverse Engineering in Image Generation
Lai Man Tin, Hong Kong SAR China

Assessing the Transparency and Explainability of AI Algorithms in Planning and Scheduling tools: A Review of the Literature

Sofia Morandini, Federico Fraboni, Enzo Balatti, Aranka Hackmann, Hannah Brendel, Gabriele Puzzo, Lucia Volpi, Davide Giusino, Marco De Angelis, Luca Pietrantoni, Italy

The future of medical diagnosis expertise in the age of emerging digital technologies

Mohammad Hosein Rezazade Mehrizi, Netherlands

12:00 - 12:30 • Sessions Break

DAY 2

Track

Room

SESSION 15

Emerging Technologies and Business Applications II

**IHIET
7**

Paris

**Thu, August
24**

**Session Chair(s): Oskar Juszczyk, Finland
and Daniel Lisowski, United States**

**12:30 -14:00
(CEST)**

Traceability in Fast-Moving Consumer Goods Industries by Application of Blockchain Technology and Smart Contracts

Mohammad Yaser Mofatteh, Kiran Basavaraju, Akshay Palani, Vamsi Sai Pidikiti, Manoj Kandahalli Raju, Omid Fatahi Valilai, Germany

Motion Capture Body Tracking and Functional Safety in Dynamically Controlled Theatre Automation Systems

Daniel Lisowski, United States

The Impact of Blockchain on Future Business Models within the Renewable Energy Sector

Oskar Juszczyk, Finland

A Bi-Objective Approach for Determining Optimal Order Picking Planning Strategy with Ergonomic Load Evaluation

Rifat Gurcan Ozdemir, Kuwait

From unsafe acts to system resilience - how emerging technologies in the O&G industry reach new safety frontiers

Josue Franca, Erik Hollnagel, Brazil

DAY 2		Track	Room
SESSION 16	Human-centered Design III	IHIET 1	Reims
Thu, August 24	Session Chair(s): Takayuki Hiwatari, Japan and Alex Pui-yuk King, Hong Kong		
12:30 -14:00 (CEST)	<p>Sensing Intra-clothing Climate to Increase Comfort According to time, place, and occasion Takayuki Hiwatari, Fumiko Harada, Hiromitsu Shimakawa, Japan</p>		
	<p>Attention Training Products for Preschool Children using AHP-TOPSIS Tingmin Yan, Zihe Chen, China</p>		
	<p>Universal Design in Public Housing: Enhancing the Quality of Life of Older People with Mild Cognitive Impairment Living Alone Alex Pui-Yuk King, Kin Wai Michael Siu, Hong Kong Sar China</p>		
	<p>Product Design to Effectively Alleviate Emotional Exhaustion Caused by Long Hours of Digital Interactive Work Ziyang Dong, Li Xu, China</p>		
	<p>3D Prototype of an Interactive Adding Machine to Improve Basic Numerical Skills Boris Astudillo, Jonathan González, Julio Mora, Cristian Bastidas, Erick Vera, Ecuador</p>		
	<p>Human-centred design: Promoting interactions between children and caregivers in play spaces Kin Wai Michael Siu, Hong Kong Sar China</p>		

DAY 2		Track	Room
SESSION 17	Human-computer Interaction III	IHIET 5	Strasbourg
Thu, August 24	Session Chair(s): Zhenyu Liu, China and Zhiming Liu, China		
12:30 -14:00	AffectiveTree: Visualizing Collective Stress Amongst Chinese Telecommuters through Dynamic Painting Zhenyu Liu, Cheng Yao, Qiurui Wang, Fangtian Ying, China		
	Future design outlook of wearable devices Zhiming Liu, Xiangyu Liu, China		
	The impact of the complexity of the interactive interface of e-commerce apps on user satisfaction and efficiency Xinran Liu, Li Xu, China		
	Design and Evaluation of Affinity Expressions for Child-like Characteristics Robots Huang Zhaohui, Liu Shun, Zhu Chunxue, Huang Xue, China		
	The use of gamification in the knowledge management practices Prasheena Jeyaranjan, Rukshan Alexander, Sri Lanka		
	End of Day 2 Sessions - Enjoy lunch at the restaurant of your choice		

Poster Demonstrations

SESSION A	Poster Demonstration Session	Room
Wed-Thu , August 23-24 [10:30 - 14:00]		Lobby Level
A-1	<p>QHS Methodology for Business Intelligence Model, Talent Management and KPI's in the Foreign Trade Supply Chain Manuel Ignacio Garcia Rios Acero, Rodolfo Martinez Gutierrez, Jose Carlos Gonzalez Villa, Mexico</p>	
A-2	<p>The Effects of Happy and Sad Dynamic Digital Art on Relieving Stress Qiurui Wang, Jun Hu, Zhenyu Liu, Caihong He, Netherlands</p>	
A-3	<p>Automatic Text-to-sound Generation by Doc2Vec Kakeru Iwamoto, Hironori Uchida, Yujie Li, Yoshihisa Nakatoh, Japan</p>	
A-4	<p>Proposition of an utilitarianism and fair objective function building method based on values and socio-economic consequences for data-driven decisions Christian Goglin, France</p>	
A-5	<p>QHS Methodology for Business Intelligence with CRM in Warehouse Services and Foreign Trade Logistics Jorge Vicente Villa Garcia, Rodolfo Martinez Gutierrez, Rodolfo Martinez Solis, Greece Arisbeth Hernandez Castañeda, Mexico</p>	
A-6	<p>Diabetes Diagnosis Using Plantar Thermogram Based on DenseNet Ono Ayaka, Hironori Uchida, Yujie Li, Yoshihisa Nakatoh, Japan</p>	
A-7	<p>Overview of intervention measures for the prevention of psychosocial risks at workplaces of Labour Offices in the Czech Republic Vladimira Lipsova, Karolina Mrazova, Kateřina Bátorlová, Martin Stepanek, Tomas Navratil, Sergey Zacharov, Czech Republic</p>	
A-8	<p>Investigation of Weaknesses in Typically Anomaly Detection Methods for Software Development Hironori Uchida, Keitaro Tominaga, Hideki Itai, Yujie Li, Yoshihisa Nakatoh, Japan</p>	

A-9	<p>Building a Better Mouse App: New Modalities For Human-Computer Interaction Ian Gonsler, Jesse Gallant, Fuka Ikeda, Frank Carber, Chien Lu, Claire Poissonnier, United States</p>	
A-10	<p>The Effect of Auditory Stimulus on Gazing Behavior in Driving Assistance Systems Kisa Takao, Hironori Uchida, Yujie Li, Yoshihisa Nakatoh, Japan</p>	
A-11	<p>Investigation of Graphical User Interfaces for Online Driving Style Customization of Highly Automated Vehicles Alexander Trende, Ina Krefting, Lars Weber, Andreas Lüdtkke, Jochem Rieger, Martin Fränzle, Germany</p>	
A-12	<p>A framework for assessing and enhancing social and spatial presence in mediated communication to support Expertise at a Distance Ivo Stuldreher, Maarten Michel, Liv Ziegfeld, Netherlands</p>	
A-13	<p>Assessing the efficacy of protective measures in poor visual environments of construction sites - improving safety and visual cognition Sangkil Song, Juwon Hong, Jinwoo Choi, Taehoon Hong, South Korea</p>	
SESSION B	Poster Demonstration Session	Room
	Wed-Thu , August 23-24 [10:30 - 14:00]	Lobby Level
B-1	<p>Estimation of Gait Conditions Using Acceleration and Angular Velocity Sensors Shinji Hirano, Hironori Uchida, Yoshihisa Nakatoh, Yujie Li, Japan</p>	
B-2	<p>QHS Methodology for Management and Finance Models in Foreign Trade Supply Chain Business Angel Agustin Mendoza Marmolejo, Rodolfo Martinez Gutierrez, Rodrigo Gonzalez Villa, Mexico</p>	
B-3	<p>Detailed View on Digital Deception: Investigating the Impact of the Dark Patterns Preselection, Confirmshaming and Disguised Ads on Decision Making Deborah Loeschner, Sebastian Pannasch, Germany</p>	

B-4	<p>Systematic review of technologies to collaborate and co-educate students with special educational needs and supporting their schooling</p> <p>Eric Meyer, H�el�ene Sauzeon, Isabeau Saint-supery, C�ecile Mazon, France</p>
B-5	<p>Comparison of maximum hip abductor torques from patient-specific multibody simulation models with isometric and isokinetic force measurements</p> <p>Christopher Fleischmann, Irina Leher, David Scherb, Marius Kollerer, J�org Miebling, Sandro Wartzack, Stefan Sesselmann, Germany</p>
B-6	<p>Creativity management for high school students in Tunisia</p> <p>Imen Bejar, Tunisia</p>
B-7	<p>Cross-Lingual Dictionary Generation Tool Using Phonetic Similarity for Natural Language Translation of Gujarati to Hindi</p> <p>Ashwin Makwana, Hemit Rana, India</p>
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