iHiET
2020
INTERNATIONAL

Virtual

2020
IHIET
International

3rd International Conference on
Human Interaction and Emerging Technologies

Final Program

August 27-29, 2020
Virtual Conference
Paris, France

Opening
Plenary Session
and Keynote Address

Keynote Address

Thursday, August 27, 2020 at 13:30-15:00

Title:
Intercultural User Interface Design

Speaker:
Dr. Rüdiger Heimgärtner, IUIC, Germany

Conference
ACCESS

Access to the Virtual Conference Scientific and Technical Program will be Available through the IHIET 2020 Submission System.

Detailed Access for all sessions will be sent to Registered Participants by email.

Virtual conference program schedule is listed in Eastern Daylight Time (EDT) - New York Timezone

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Karine Langlois (France)
Arnaud Choplin (France)

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Conference Tracks

Acronym	Track
IHIET 1	Human-centered Design
IHIET 2	Computation 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	Applications of Technologies in Medicine, Biomechanics, Sports and Healthcare
IHIET 7	Human-Technology and Future of Work
IHIET 8	Emerging Technologies and Business Applications

Virtual conference program schedule is listed in
Eastern Daylight Time (EDT) - New York Timezone

Friday, August 28

#	Title	Virtual Room	Track
	Session Time: 9:00 - 11:00 (EDT)		
1	IHIET 1: Human-centered Design I	Paris	IHIET 1
2	IHIET 2: Artificial Intelligence and Computing I	Reims	IHIET 2
3	IHIET 3: Augmented, Virtual and Mixed Reality Simulation I	Cannes	IHIET 3
4	IHIET 4: Wearable Technologies, Social and Affective Computing I	Nice	IHIET 4
5	IHIET 5: Human–computer Interaction I	Leon	IHIET 5
6	IHIET 6: Healthcare and Medical Applications I	Toulouse	IHIET 6
7	IHIET 7: Human-Technology and Future of Work I	Strasbourg	IHIET 7
	11:00 - 11:30 (EDT)		
	Session Time: 11:30 -13:30 (EDT)		
8	IHIET 8: Management, Training and Business Applications I	Paris	IHIET 8
9	IHIET 1: Human-centered Design II	Reims	IHIET 1
10	IHIET 2: Artificial Intelligence and Computing II	Cannes	IHIET 2
11	IHIET 3: Augmented, Virtual and Mixed Reality Simulation II	Nice	IHIET 3
13	IHIET 5: Human–computer Interaction II	Toulouse	IHIET 5
	13:30 - 14:30 • Lunch Break		
	Session Time: 14:30 -16:30 (EDT)		
15	IHIET 7: Human-Technology and Future of Work II	Paris	IHIET 7
16	IHIET 8: Management, Training and Business Applications II	Reims	IHIET 8
17	IHIET 1: Human-centered Design III	Cannes	IHIET 1
18	IHIET 2: Artificial Intelligence and Computing III	Nice	IHIET 2
20	IHIET 5: Human–computer Interaction III	Toulouse	IHIET 5

Saturday, August 29

#	Title	Virtual Room	Track
	Session Time: 9:00 - 11:00 (EDT)		
22	IHIET 7: Human-Technology and Future of Work III	Paris	IHIET 7
23	IHIET 8: Management, Training and Business Applications III	Reims	IHIET 8
24	IHIET 1: Human-centered Design IV	Cannes	IHIET 1
25	IHIET 5: Human–computer Interaction IV	Nice	IHIET 5
26	IHIET 6: Augmented Human Research: Applications in Sport and Medicine	Leon	IHIET 6
27	IHIET 7: Human-Technology and Future of Work IV	Toulouse	IHIET 7
	11:00 - 11:30 (EDT)		
	Session Time: 11:30 - 13:30 (EDT)		
28	IHIET 8: Management, Training and Business Applications IV	Paris	IHIET 8
29	IHIET 1: Human-centered Design V	Reims	IHIET 1
33	IHIET 8: Emerging Technologies and Applications I	Toulouse	IHIET 8
	13:30 - 14:30 (EDT)		
	Session Time: 14:30 -16:30 (EDT)		
37	IHIET 8: Emerging Technologies and Applications II	Cannes	IHIET 8
39	IHIET 8: Emerging Technologies and Applications III	Leon	IHIET 8
40	IHIET 8: Emerging Technologies and Applications IV	Toulouse	IHIET 8
41	IHIET 8: Emerging Technologies and Applications V	Strasbourg	IHIET 8

Detailed Technical Program

1	**IHIET 1: Human-centered Design I** Session Chair(s): Amangul Imanghaliyeva, UK and Federico Fraboni, Italy

9:00 - 11:00 (EDT) - PARIS

An AcciMap of the Edinburgh Tram Network Project Delivery Failure
> Amangul Imanghaliyeva, United Kingdom

Workload and Visual Scanning Techniques of Expert and Novice Helicopter Pilots during Simulated Flight in open sea
> Giuseppe Rainieri, Federico Fraboni, Martin Tušl, Gabriele Russo,
> Davide Giusino, Marco De Angelis, Annagrazia Tria, Luca Pietrantoni, Italy

Kansei Design and its applications in Architecture and the Built Environment
> Paolo Caratelli, Maria Alessandra Misuri, United Arab Emirates

A Critical Analysis of Music Recommendation Systems and New Perspectives.
> Dushani Perera, Maneesha Rajaratne, Buddy Liyanage, Kasun Karunanayake,
> Shiromi Arunathilake, Sri Lanka

Design of human-centred technical systems, products and human capital development
> Evgeny Kolbachev, Elena Sidorova, Polina Vaneeva, Russia

Avoiding Post-Merger Corporate Downsize Restructuring: The Democratic Employee-Culture Fit Model (DeECFit)
> Evangelos Markopoulos, Ines Selma Kirane, Emma Luisa Gann,
> Hannu Vanharanta, United Kingdom

2	**IHIET 2: Artificial Intelligence and Computing I** Session Chair(s): Tiffany D'Souza, USA and Luepol Pipanmekaporn, Thailand

9:00 - 11:00 (EDT) - REIMS

Solving the Revolving Door Problem: Machine Learning for Readmission Risk Assessment
> Alexander Mitts, Tiffany D'Souza, Bryan Sadler, Dominick Battistini,
> David Vuong, Andre Vlasov, United States

Deep Learning Approach for Fishing Vessel Classsification from VMS Trajectories using Recurrent Neural Networks
> Luepol Pipanmekaporn, Suwatchai Kamonsantiroj, Thailand

Can machine be intelligent? The new concept of intelligent machine
> Vaclav Jirovsky, Vaclav Jirovsky Jn, Czech Republic

Calculation and visualization of the speed of movement of the working point of the exploratory research process
> Olga Popova, Boris Popov, Vladimir Afanasyev, Vladimir Karandey, Russia

Continuous control in deep reinforcement learning with direct policy derivation from Q network
> Aydar Akhmetzyanov, Alexandr Klimchik, Rauf Yagfarov, Mikhail Ostanin,
> Salimzhan Gafurov, Russia

A framework for selecting classification models in the intruder detection system using TOPSIS
> Maikel Leyva, Deivid Leon, Carlos Espinoza, Miguel Angel Quiroz Martinez, Ecuador

3	**IHIET 3: Augmented, Virtual and Mixed Reality Simulation I** Session Chair(s): Francesco Carrino, Switzerland and Petr Svoboda, Czech Republic

9:00 - 11:00 (EDT) - CANNES

PersonAge VR – A Virtual Reality story-telling tool to raise awareness about ageism.
> Francesco Carrino, Valentin Moullet, Omar Abou Khaled, Elena Mugellini,
> Christian Maggiori, Switzerland

Early-detection and Treatment of Torticollis in Infants using Augmented Reality
> D. Michael Franklin, Kimberly Castle, Rachael Walton-Mouw, United States

3D multi-user virtual environments in education
> Petr Svoboda, Czech Republic

Evaluating Visual Perception by Tracking Eye Movement in Architectural Space during Virtual Reality Experiences
> Nayeon Kim, Hyunsoo Lee, South Korea

Using Virtual Reality and Gamification for a Restorative Therapy and Rehabilitation Support Equipment
> Luís Castro Soares, César Páris, Anabela Gomes, Jorge Laíns, Filipe Carvalho,
> Luís Roseiro, Portugal

Development of a virtual reality based fire training simulator and machine learning based path guidance system: A case of hospital fire breakouts
> Jhareswar Maiti, Krantiraditya Dhalmahapatra, Saransh Gupta, Udayaditya Singh,
> India

4	**IHIET 4: Wearable Technologies, Social and Affective Computing I** Session Chair(s): Julie Maclean, Australia and Stefano Parisi, Italy

9:00 - 11:00 (EDT) - NICE

Instagram Photo Sharing and its Relationships with Social Rewards and Social Connectedness
> Julie Maclean, Yeslam Al-Saggaf, Rachel Hogg, Australia

Building a unique method to teach how to "design" with and for ICS Materials in the wearable domain
> Venere Ferraro, Stefano Parisi, Italy

On Air: flirting with podcasts as an auxiliary educational resource
> Gonçalo Falcão, Sebastião Sommer, Portugal

Emotion detection on smartphones through memory tasks involving watching videos
> Nicolas Simonazzi, Jean-Marc Salotti, Caroline Dubois, France

5	**IHIET 5: Human–computer Interaction I** Session Chair(s): Jean-Francois Lapointe, Canada and Yeslam Al-Saggaf, Australia

9:00 - 11:00 (EDT) - LEON

A Distributed Multimodal Multi-User Virtual Environment for Visualization and Query of Complex Data
> Jean-François Lapointe, Julio Valdés, Luc Belliveau, Norman G. Vinson, Bruno Emond, Serge Léger, Canada

Reduce stress through empathic machine to improve HCI
> Karl Daher, Mathias Fuchs, Elena Mugellini, Denis Lalanne, Omar Abou Khaled, Switzerland

App Use While Phubbing
> Yeslam Al-Saggaf, Australia

Individual 'Trace' in Knowledge Space A novel design approach for human-systems interaction
> Damian Chapman, Stephen Wang, United Kingdom

Optimization for Collaborative Learning Environments by Matching Team Members with Analyzing Students' Various Data Using ICT
> Keiko Tsujioka, Japan

6	**IHIET 6: Healthcare and Medical Applications I** Session Chair(s): Peter Forbrig, Germany and Rudolf Fischer, Germany

9:00 - 11:00 (EDT) - TOULOUSE

Supporting the Arm-Ability Training of Stroke Patients by a Social-Humanoid Robot
> Peter Forbrig, Thomas Platz, Germany

Service Innovation in Health Care - The role of Health Platforms as Innovators
> Rudolf Fischer, Germany

Innovation and technology in one new hospital in Montreal: A lived experience of healthcare professionals
> Zakia Hammouni, Canada

HypnOS: A Sleep Monitoring and Recommendation System to Improve Sleep Hygiene in Intelligent Homes
> Eleni Tsolakou, Asterios Leonidis, Vasilios Kouroumalis, Maria Korozi, Margherita Antona, Constantine Stephanidis, Greece

Healthcare devices for children: strategies to improve user experience
> Laura Giraldi, Marta Maini, Francesca Morelli, Italy

Mathematical modelling and computer analysis of diabetes to develop novel index for diagnosis and risk prediction of pathogenesis
> Kazumi Omata, Japan

7	**IHIET 7: Human-Technology and Future of Work I** Session Chair(s): Deborah Middleton, Saudi Arabia and Fernando Galdon, UK

9:00 - 11:00 (EDT) - STRASBOURG

Information Management Strategies in Manual Assembly
    Sven Hinrichsen, Benjamin Adrian, Manfred Bornewasser, Germany
Designing trust in Artificial Intelligence: A comparative study among specifications, principles and levels of control.
    Fernando Galdon, Ashley Hall, Laura Ferrarello, United Kingdom
Reduction of Cognitive Load in Complex Assembly Systems
    Dominic Bläsing, Sven Hinrichsen, Manfred Bornewasser, Germany
How can we rescue the user from the Digital Transformation tornado?
    Stefano Rizzo, Italy
Advancing modular green roof and wall system design thinking using 3D and 2D visualization modalities by small groups in action learning projects.
    Deborah Middleton, Saudi Arabia
Work-compatibility based Accident Prediction Model for the Workforce of an Underground Coal Mine in India
    Suprakash Gupta, Arra Kumar, Gunda Yuga Raju, India

11:00 - 11:30 (EDT)

8	**IHIET 8: Management, Training and Business Applications I** Session Chair(s): Shuichi Fukuda, Japan and Fernando Galdon, UK

11:30 -13:30 (EDT) - PARIS

Creating a New Self-Sustaining Society
    Shuichi Fukuda, Japan
Expression of feelings in Twitter: A decision tree approach
    Yeslam Al-Saggaf, Australia
Artificial Intelligence as Answer to Cognitive Revolution Challenges
    Nicolay Vasilyev, Vladimir Gromyko, Stanislav Anosov, Russia
Human-Connected Object Interaction: Applications for Citizens with Special Needs
    Hana Aljaberi, Mohammad Amin Kuhail, Fatima Al-Harbi and Ahmed Seffah, United Arab Emirates
Reflection on the Adoption of a Virtual Reality Adaptive Learning Tool for Railway and Process Industry Training
    Alberto Martinetti, Micaela Demichela, Steven Spoolder, Joep von Berg, Leo van Dongen, The Netherlands
The right to reparations: a new digital right for repairing trust in the emerging era of highly autonomous systems
    Fernando Galdon, Ashley Hall, United Kingdom
Dual-axis Force Sensor with Passive Eddy Current Damper for Precision Measurement
    Xiantao Sun, Wenjie Chen, Weihai Chen, Cungang Hu, China

9	**IHIET 1: Human-centered Design II** Session Chair(s): Pertti Saariluoma, Finland and Kevin Clark, USA

11:30 -13:30 (EDT) - REIMS

Hume's guillotine in designing ethically intelligent technologies
    Pertti Saariluoma, Finland
Designing Presence
    Kevin Clark, Kazuhiko Yamazaki, United States
A Democratic, Green Ocean Management Framework for Environmental, Social and Governance (ESG) Compliance
    Evangelos Markopoulos, Ines Selma Kirane, Emma Luisa Gann, Hannu Vanharanta, United Kingdom
Interview Survey Method to Extract Cultural Trait Applicable to Concept Design
    Uulen Tumurkhaduur, kazuhiko yamazaki, Japan
Proposal for the Three Experiences: User Experience, Employee Experience and Social Experience
    Kazuhiko Yamazaki, Kevin Clark, Japan
Analysis of the work system in an object of the new media and the effects generated in the processes of interaction with a user
    Lorena Olmos Pineda, Jorge Gil Tejeda, Mexico
Using technology to encourage the participation of persons with disabilities: Exploring cultural leisure activities in a theatre environment
    Zakia Hammouni, Wittich Walter, Kehayia Eva, Verduyckt Ingrid, Martiniello Natalina, Poldma Tiiu, Canada

10	**IHIET 2: Artificial Intelligence and Computing II** Session Chair(s): Amangul Imanghaliyeva, UK and Iman Al-dahhan Al-dahhan, Iraq

11:30 -13:30 (EDT) - CANNES

Research on Cooperative Operation of Air Combat based on Multi-Agent
> Jianqiang Zheng, Qinghua Ma, Shujun Yang, Shuaiwei Wang, Yiming Liang, Jirong Ma, China

Forecasting by using the optimal time series method
> Iman Amer Hameed Dahhan, Marwan Ashour, Areej Hassan, Iraq

An AcciMap for the Kleen Energy Power Plant Project Accident
> Amangul Imanghaliyeva, United Kingdom

Traffic Sign Classification Using Embedding Learning Approach for Self-Driving Cars
> Rauf Yagfarov, Vladislav Ostankovich, Aydar Akhmetzyanov, Russia

Emergency Case Report Application Applying Location Based Service Framework on Mobile Smart Devices
> Shutchapol Chopvitayakun, Thailand

Smart Textile for Architecture - Living with technology
> Ana Claudia Figueiredo De Oliveira, Portugal

11	**IHIET 3: Augmented, Virtual and Mixed Reality Simulation II** Session Chair(s): Andrea Ratti, Italy and Lyuba Alboul, UK

11:30 -13:30 (EDT) - NICE

Use of virtual reality in the nursing school's toco-surgery teaching process
> Leticia Neira, Edson Castañeda, Cesar Torres, Mexico

A Comparative Study of 3 DOF Travel Techniques for Immersive Virtual Flythroughs: the Leap Motion and the Oculus Rift S Hand Controllers
> Jean-François Lapointe, Norman G. Vinson, Bruno Emond, Canada

Digital technologies in expanding the boundaries through immersive spaces: case studies in vessel and yacht design
> Giuseppe Carmosino, Arianna Bionda, Silvia Piardi, Andrea Ratti, Italy

Fusing VR and Robots: Towards a New Type of Cyber-Physical-Social Eco-system to change the way we interact with each other and the world around us
> Lyuba Alboul, Louis Nisiotis, United Kingdom

Physical add-ons for haptic human-surrounding interaction and sensorial augmentation
> Eva Lindell, Arthur Thiel, Li Guo, Nasrine Olsson, Oliver Korn, Nils-Krister Persson, Sweden

13	**IHIET 5: Human–computer Interaction II** Session Chair(s): Dev Raj Lamichhane, UK and Valentina Milenkova, Bulgaria

11:30 -13:30 (EDT) - TOULOUSE

Make me Messenger: Critiquing Children as Design Informants
> Dev Lamichhane, Janet Read, United Kingdom

Shaping Digital Literacy in knowledge society
> Valentina Milenkova, Boris Manov, Bulgaria

MOOC as an Innovative Tool for Design Teaching
> Rosa Luna, Marco Neves, Portugal

Analysis of the work system in an object of the new media and the effects generated in the processes of interaction with a weak - visual person
> Jorge Gil Tejeda, Lorena Olmos Pineda, Mexico

Machine's Statistical Parsing and Human's Cognitive Preference for Garden Path Sentences
> Jiali Du, Pingfang Yu, Xinguang Li, China

Comparative Research on Terminology Databases in Europe and China
> Jiali Du, Christina Alexandris, Pingfang Yu, China

Icon Design Recommendations for Central Consoles of Intelligent Vehicles
> Fang You, Yi-Fan Yang, Mengting Fu, Jifang Wang, Xiaojun Luo, Liping Li, Preben Hansen, Jianmin Wang, China

14	**IHIET 6: Healthcare and Medical Applications II** Session Chair(s): Ying-Chieh Liu, Taiwan and Irina Kurnikova, Russia

11:30 -13:30 (EDT) - STRASBOURG

Development of User-Drawn Doodles for Communication and Reporting of Dietary Intake in Health Management
> Ying-Chieh Liu, Chien-Hung Chen, Su-Ju Lu, Yu-Sheng Lin, Hsin-Yun Chen, Taiwan

Quantitative Methods for Assessing Functional Reserves in Predicting the Effectiveness of Medical Rehabilitation of Patients with Diabetes
> Irina Kurnikova, Ramchandra Sargar, Svetlana Kislaya, Sofia Buturlina, Ekaterina Mukhametgaleeva, Russia

Evaluation of Gérontechnologies: support to decision making & prescription
> Aissaoui Djamel, Javier Barcenilla, Switzerland

Increase food safety - Probiotic Lactic Acid Bacteria Isolation from Fermented Beef (Naem) Samples for Use as Starter Culture
> Jaruwan Chutrtong, Thailand

Effects of the Physical Therapy Application for Elderly
> Kunyanuth Kularbphettong, Sililux Katesiri, Thailand

The human interface interaction design based on blood oxygen meter
> Yi Zhang, China

13:30 - 14:30 (EDT)

15	**IHIET 7: Human-Technology and Future of Work II** Session Chair(s): Evangelos Markopoulos, United Kingdom and Fernando Galdon, UK

14:30 - 16:30 (EDT) - PARIS

Synthetic Consequential Reasoning: Facilitating the design of synthetic morality in highly automated systems via a multidimensional-scalar framework
> Fernando Galdon, Ashley Hall, United Kingdom

Green Capitalism: Democratizing Sustainable Innovation by Recycling Intellectual Capital Energy
> Evangelos Markopoulos, Emma Luisa Gann, Ines Selma Kirane, Hannu Vanharanta, United Kingdom

Rapid Imaging of Latent Fingerprints using Xanthone compounds on Ultra-Violet silica Nano particles
> Chanyapat Sangsuwon, Thailand

Muscle Fatigue Monitoring: Using HD-sEMG Techniques
> Xiangyu Liu, Meiyu Zhou, China

An Investigation of Chinese Driving Behavior from Driver's Perspective
> Long Liu, Jue Li, Daniel Sällberg, China

The Effect of In Vehicle Technology Feedback on Improving Older Drivers' Visual Search and Driving Performance
> Rachel Shichrur, Avinoam Borowsky, Navah Ratzon, Israel

Detailed Technical Program

16	**IHIET 8: Management, Training and Business Applications II** Session Chair(s): Maurizio Caon, Switzerland and Carlos Raymundo, Peru

11:30 -13:30 (EDT) - REIMS

Digitalization of the Last Mile of a Humanitarian Supply Chain
Maurizio Caon, Omar Abou Khaled, Paul Vaucher, Switzerland

Production Management Model For Reducing Product Development Waiting Time By Applying Lean Manufacturing Model For SME Exporters In The Textile Sector
Carlos Raymundo, Gianpierre Zapata, Katerine Becerra, Xiomara Carbajal, Peru

Service Model Under The Lean and Change Management Approaches To Reduce Delivery Times and Optimize The Quality Of Processes In A Company In The Metal-Mechanic Sector
Carlos Raymundo, Tom Orihuela, Juan Peñafiel, Peru

Occupational Health and Safety Management Model for Mining Contracts
Yakelin Cano, Grimaldo Quispe, Heyul Chavez, Nestor Mamani-Macedo, Carlos Raymundo, Francisco Dominguez, Peru

Comprehensive Strategic Risk Management System to Reduce Evaluation Times in Small-Scale Mining Projects
Carlos Raymundo, Fernando Loarte-Flores, Yaneth Vasquez-Olivera, Peru

Tennis Sports Organization and Service for Middle-aged and Old People in Wuhan City of China
Chongyang Zhang, Qi Luo, China

17	**IHIET 1: Human-centered Design III** Session Chair(s): Marco Käppler, Germany and Igor Škorić, Croatia

14:30 - 16:30 (EDT) - CANNES

The importance of feedback for object hand-overs between human and robot
Marco Käppler, Barbara Deml, Thorsten Stein, Hannah Steingrebe, Johannes Nagl, Germany

Exploring the Acceptance of the Web-based Coding Tool in an Introductory Programming Course: A Pilot Study
Igor Škorić, Tihomir Orehovački, Marina Ivaši -Kos, Croatia

Exemplification of Assessing Human Centered Design Processes from ISO 9241-220
Rüdiger Heimgärtner, Germany

The Influence of Lighting Settings on Museum's Brand Image and Human Satisfaction in Exhibition Halls Using Virtual Reality
Youmna ahmady, Yamuna Kaluarachchi, Egypt

An exploratory approach towards fashion e-commerce
Carolina Marianna Bozzi Faya, Marco Neves, Claudia Mont'Alvão, Portugal

HelaBeat: An Extensible Audio Streaming Mobile Application.
Dushani Perera, Maneesha Rajaratne, Shiromi Arunathilake, Sri Lanka

An Objective Rating Approach for Vibration Discomfort Evaluation in Power Tool Ergonomics – Examination of higher Frequency Components
Sebastian Zimprich, René Germann, Sebastian Helmstetter, Simon Saurbier, Sven Matthiesen, Germany

18	**IHIET 2: Artificial Intelligence and Computing III** Session Chair(s): Nia Peters, USA and Marco Roccetti, Italy

14:30 - 16:30 (EDT) - NICE

Talker and Team Dependent Modeling Techniques for Intelligent Interruption Interfaces
Nia Peters, United States

Dimensionality reduction and the strange case of categorical data for predicting defective water meter devices
Marco Roccetti, Luca Casini, Giovanni Delnevo, Simone Bonfante, Italy

Research on Precision of Transmission Mechanism in Flight Control Deck Suite of Civil Aircraft
Fang Zhang, Xianchao Ma, Yinbo Zhang, Ruijie Fan, China

20	**IHIET 5: Human–computer Interaction III** Session Chair(s): Maria Gaci, Switzerland and Ole Goethe, Norway

14:30 - 16:30 (EDT) - TOULOUSE

Design of Digital Mediation Tool for Self-disclosing PTSD
> Maria Gaci, Caroline Bendahan, Isabelle Vonèche Cardia, Marina Fiori, Delphine Preissmann, Denis Gillet, Switzerland

Mind-reading chatbots: We are not there yet
> Baptiste Jacquet, Jean Baratgin, France

Approaching Instant Messaging (IM) by Connecting Usage Scenario and User Interaction for More Meaningful Notification
> Ole Goethe, Norway

A Multilayered Contextually Intelligent Activity Recognition Framework for Smart Home
> Nirmalya Thakur, Chia Y. Han, United States

An Intelligent Ubiquitous Activity Aware Framework for Smart Home
> Nirmalya Thakur, Chia Y. Han, United States

User Interface in Virtual Space Using VR Device with Eye Tracking
> Yasushi Kambayashi, Munehiro Takimoto, Kazuki Komoriya, Taiga Sakurai, Yusuke Seki, Japan

Towards A Language for Defining Human Behavior for Complex Activities
> Nirmalya Thakur, Chia Y. Han, United States

21	**IHIET 6: Healthcare and Medical Applications III** Session Chair(s): Alan Liu, USA and Djamel Aissaoui, Switzerland

14:30 - 16:30 (EDT) - STRASBOURG

The Wide Area Virtual Environment - A Novel Immersive Environment for Medical Team Training
> Alan Liu, Eric Acosta, Jamie Cope, Valerie Henry, Fernando Reyes, Joseph Bradascio, Wesley Meek, United States

Properties of Emulsion Sausage with Partial Replacement of Fat by Dragon Fruit Peel Powder
> Nuntaporn Aukkanit, Siriyakorn Sroyraya, Tamonwan Duljumnong, Thailand

Breath acetone sensor with bio-fluorometry for early screening of diabetes mellitus
> Kohji Mitsubayashi, Koji Toma, Takahiro Arakawa, Japan

Evaluation of Gérontechnologies: Support to Decision Making & Prescription
> Aissaoui Djamel, Switzerland

22	**IHIET 7: Human-Technology and Future of Work III** Session Chair(s): Dosun Shin, USA and Sven Hinrichsen, Germany

9:00 - 11:00 (EDT) - PARIS

New Investment of Innovative Design of The Future Workstation Advancing Sedentary Work Behavior
> Dosun Shin, Matthew Buman, Pavan Turaga, Assegid Kidane, Todd Ingalls, United States

Industry 4.0 in Logistics and associated Employee Competencies – A Technology Providers' Perspective
> Markus Kohl, Sophia Knauer, Johannes Fottner, Germany

Digital Twin Modeling of Smart Cities
> Dessislava Petrova-Antonova, Sylvia Ilieva, Bulgaria

Comparison of muscular activity analysis for electrical tecnicians using exoeskeleton in the Colombia industry, Enel-Codensa study
> Sebastian Pelaez, Christian Zea, Iván Mondragón, Rodolfo Garcia, Giovanni Hernandez, Colombia

Approaches to Improve Shop Floor Management
> Sven Hinrichsen, Benjamin Adrian, Andreas Schulz, Germany

Upper limbs motion tracking for collaborative robotic applications
> Elisa Digo, Mattia Antonelli, Stefano Pastorelli, Laura Gastaldi, Italy

23	**IHIET 8: Management, Training and Business Applications III** Session Chair(s): Kanyarat bussaban, Thailand and Carlos Raymundo, Peru

9:00 - 11:00 (EDT) - REIMS

Lean Healthcare Model Using Knowledge Management and Change Management Approaches To Reduce Delays For Care In The Health Sector
> Carlos Raymundo, Alvaro Maravi-Cardenas, Miguel Fuentes-Chahuaylla, Juan Peñafiel, Peru

An analytical study of aptitude tests for entrance to architecture education: A case study of India
> Poonam Khan, Nikhil Mandal, India

An Application of Social Network Analysis to Study Interconnection of Courses in Mathematics Education Curriculum
> Kanyarat bussaban, Thailand

Lean Six Sigma Operational Assessment Method with a Modified DMA-IC Cycle for Reducing Non-Productive Times at Mining SMEs
> Fabricio Aguero, Gianfranco Ramírez, Vidal Aramburu, Nestor Mamani-Macedo, Carlos Raymundo, Francisco Dominguez, Peru

Construction of Law Network Courses in Higher Vocational Colleges
> Lili Li, China

Process management model aligned to the Civil Service Law in public entities of Peru
> Gianpierre Zapata, Peru

Productivity model focused on Six Sigma and Lean Manufacturing to improve the quality of service in SMEs in Peru
> Gianpierre Zapata, Peru

24	**IHIET 1: Human-centered Design IV** Session Chair(s): Jinge Huang, China and Sheng Tang, China

9:00 - 11:00 (EDT) - CANNES

BraVo: A Physiological Indication System for Female College Students to Manage Depression
> Wei Liu, Jinge Huang, Wenjie Pan, Yancong Zhu, Mengfan Li, Han Xu, China

Landing UX Design Thinking Tools and Strategies in a Chinese Context
> Di Zhu, Wei Liu, Yao Liu, Minjing Wang, Jueyi Sheng, Sheng Tang, China

Effects of different scheduling systems on crews' situation awareness under long-term operation conditions
> Hao Chen, Liping Pang, Xiaoru Wanyan, Shuang Liu, Yufeng Fang, China

Exploring interaction qualities from teenagers' studying behavior for learning feature in museum exhibit
> Xin Xin, Wei Liu, Yumei Yan, Xin Zhao, Nan Liu, Xinyue Huang, Junyi Zhou, China

Exploring a Taxonomy of Interaction in Interactive Sonification Systems
> Visda Goudarzi, United States

Detailed Technical Program

Saturday, August 29

25	**IHIET 5: Human–computer Interaction IV** Session Chair(s): Nirmalya Thakur, USA and Chia Han, USA

9:00 – 11:00 (EDT) – NICE

Towards a Knowledge Base for Activity Recognition of Diverse Users
Nirmalya Thakur, Chia Y. Han, United States

A Framework for facilitating Human-Human Interactions to Mitigate Loneliness in Elderly
Nirmalya Thakur, Chia Y. Han, United States

NeuroDesign: Embracing Neuroscience Instruments to Investigate Human Collaboration in Design
Jan Auernhammer, Wei Liu, Takumi Ohashi, Larry Leifer, Eric Byler, Wenjie Pan, United States

Research on Instructor's Teaching Styles: Efficiency Factors in Human - Machine Interaction Training with Aircraft Simulators for Chinese Pilots
Yancong Zhu, Wei Liu, Qiang Li, Nan Wang, Jingshu Zhang, Xiaohan Wang, Wenxi Li, China

26	**HIET 6: Augmented Human Research: Applications in Sport and Medicine** Session Chair(s): Alvaro Taveira, USA and Kristyna Rusnakova, Czech Republic

9:00 – 11:00 (EDT) – LEON

Quasi-Experimental Study of Exertion, Recovery, and Work Perceptions Related to Passive Upper-Body EXO Use During Overhead Low Force Work
Christine Daratany, Alvaro Taveira, United States

Effect of cognitive load with baby crying on postural stability in air force
Kristyna Rusnakova, Miloslav Stehlik, Jitka Soumarova, Cestmir Oberman, Czech Republic

Spontaneous physical activity and sedentary patterns analyzed in a general population by the eMouve application
Sylvie Rousset, Deborah Coyault-Abele, Maelane Benoit, Rihab Zemni, Philippe Lacomme, Gérard Fleury, France

Human Factors in Interfaces for Rehabilitation-Assistive Exoskeletons: A Critical Review and Research Agenda
Davide Giusino, Federico Fraboni, Giuseppe Rainieri, Marco De Angelis, Annagrazia Tria, Laura Maria Alessandra La Bara, Luca Pietrantoni, Italy

FEEDI - A Smart Wearable Foot-band for Navigation and Guidance using Haptic Feedback
Simon Stock, Alain Bertemes, Marco Stang, Martin Boehme, Daniel Grimm, Wilhelm Stork, Germany

The factors impacting the adoption of mobile health applications using the analytic hierarchical process method
Haseena Al Katheeri, United Arab Emirates

Move ahead with Mahalanobis Distance-Pattern Approach
Shuichi Fukuda, Japan

27	**IHIET 7: Human-Technology and Future of Work IV** Session Chair(s): Stefanie Findeisen, Germany and Liên Wioland, France

9:00 – 11:00 (EDT) – TOULOUSE

Deliver insights, not information: The power of data visualization to improve care delivery and patient experience
Viraj Patwardhan, Neil Gomes, Tiffany D'Souza, United States

Enabling new forms of work organization on the shopfloor through technology-driven innovation
Stefanie Findeisen, Carmen Constantinescu, Bastian Pokorni, Germany

Prevention of occupational risks related to the Human-Robot Collaboration
Laurie Brun, Liên Wioland, France

Relationship between frugal and inclusive innovation and digital employment solutions (DES): A review
Marja Ahola, Afnan Zafar, Finland

Are charts going digital? The case of Data Visualization on Portuguese Media
Salomé Esteves, Marco Neves, Portugal

Following-up digitalization initiatives in a high-hazard industry - from a regulatory perspective
Linn Iren Vestly Bergh, Elisabeth Lootz, Norway

11:00 - 11:30 (EDT)

Detailed Technical Program

28	**IHIET 8: Management, Training and Business Applications IV** Session Chair(s): Christian Iberico, Peru and Yuler Montalvo, Peru

11:30 -13:30 (EDT) - PARIS	**Management Projects Model To Reduce Lead Time Of Base Station Telecom Construction In SME Based On Lean Focus and Agility**
	    Carlos Raymundo, Christian Iberico, Ricardo Sun-Itozu, Maribel Perez-Paredes, Peru
	Public management model with a sustainable development approach based on Lean Six Sigma: Formalization of small-scale and artisanal mining in Peru
	    Yuler Montalvo, Vidal Aramburu, Nestor Mamani-Macedo, Carlos Raymundo, Francisco Dominguez, Peru
	Drilling-and-Blasting Mesh Design For Underground Mining Using The Holmberg Method
	    Max Poma, Grimaldo Quispe, Nestor Mamani-Macedo, Gianpierre Zapata, Carlos Raymundo, Francisco Dominguez, Peru
	Safety Management Model with a Behavior-Based Safety Coaching Approach to Reduce Substandard Behaviors in the Mining Sector
	    Brahayan Gómez, Roberto Sánchez, Yaneth Vasquez-Olivera, Nestor Mamani-Macedo, Carlos Raymundo, Francisco Dominguez, Peru
	Design and Implementation of Online Law Consultation System in Higher Vocational Colleges
	    Lili Li, China

29	**IHIET 1: Human-centered Design V** Session Chair(s): Rico Ludwig, Germany and Pertti Saariluoma, Finland

11:30 -13:30 (EDT) - REIMS	**How to Measure UX and Usability in Today's Connected Vehicles**
	    Rico Ludwig, Germany
	Human digital twins and cognitive mimetics
	    Pertti Saariluoma, Finland
	Pedestrian traffic planning with TOPSIS. Case Study Urdesa Norte, Guayaquil, Ecuador
	    Andrea Perez, Jesús Hechavarría, Maikel Leyva, Ecuador
	Data-driven Analysis of Human-Machine Systems – A Data Logger and Possible Use Cases for Field Studies with Cordless Power Tool
	    Matthias Dörr, Julian Peters, Sven Matthiesen, Germany
	Designing robo-taxis to promote ride-pooling
	    Angela Sanguinetti, Beth Ferguson, United States
	Multicriteria Algorithms for Multisensory Design
	    Alexandre Vianna, Brazil
	Prototype of urban-natural transition as ecological border approach. Case study: Nigeria, Guayaquil, Ecuador
	    Andrea Salvador, Rosa Pin, Jesús Hechavarría, Maikel Leyva, Ecuador

33	**IHIET 8: Emerging Technologies and Applications I** Session Chair(s): Krystian Pawłowski, Poland and Marina Nurbina, Russia

11:30 -13:30 (EDT) - TOULOUSE	**The efficiency of Information and Communication Technologies in high and low turbulence environment**
	    Krystian Pawłowski, Poland
	Mega Science Projects for Business
	    Marina Nurbina, Nurzhan Nurakhov, Artem Balyakin, Natalia Tsvetus, Russia
	Collaborative model to reduce stock breaks in the Peruvian retail sector by applying the S&OP methodology
	    Daniel Aderhold, Franco Paredes, Génesis Almeyda, Gino Viacava, Peru
	A Model using Green Lean in Rice Crop Supply Chain: An Investigation in Piura, Perú
	    Edgar Ramos, Karolina Baca, María Urquizo, Fernando Sotelo, Peru
	Applying Lean Agriculture in organic apple: Case study in Peru
	    Edgar Ramos, Francisco Gonzales, Fernando Sotelo, Vanessa Huaman, Peru

13:30 - 14:30 (EDT)

Detailed Technical Program

37	**IHIET 8: Emerging Technologies and Applications II** Session Chair(s): Silvia Zaharia, Germany and Carlos Arroyo, Peru
14:30 - 16:30 (EDT) - CANNES	**Determining the effectiveness of measures that nudge people in traffic to behave more safely** Olaf Op Den Camp, Stefan Ladwig, Netherlands **Voice Commerce - Studying the Acceptance of Smart Speakers** Silvia Zaharia, Matthias Würfel, Germany **Model to improve the efficiency in the extrusion area in a manufacturing SME of the industrial plastic sector based on SMED, autonomous maintenance and 5S** Sebastián Cruces-Raimudis, Daniel Aderhold, Carlos Arroyo-Huayta, Gino Viacava, Peru **Leagile Model in the Avocado Supply Chain: Case Study in Huaral, Peru** Edgar Ramos, Fernando Sotelo, Angelo Guzmán, Sebastian Paredes, Peru **Production process optimization model to increase productivity of microenterprises in the industrial chemical sector using 5S and TPM** Daniel Aderhold, Leonardo Chancahuana, Alondra Ortiz, Ernesto Altamirano-Flores, Peru **Improvement the Manufacturing of Aluminum Pots Using Lean Manufacturing Tools** Jose Alvarez, Juan Quiroz, Ximena Cusihualpa, Evelin Suárez, Peru **Process management model aligned to the Civil Service Law in public entities of Peru** Gianpierre Zapata, Peru
39	IHIET 8: Emerging Technologies and Applications III Session Chair(s): Thania Baldeon, Peru and Daniel Aderhold, Peru
14:30 - 16:30 (EDT) - LEON	**Production model to improve the efficiency of a Peruvian cotton knitwear export company using 5s, standardization of operations and autonomous maintenance** Daniel Aderhold, Gino Viacava, Thania Baldeón, Pedro Malásquez, Peru **Application of Lean Manufacturing in a Peruvian clothing company to reduce the amount of non-conforming products** Daniel Aderhold, Stephanie Cuellar, Angie Góngora, Ernesto Altamirano-Flores, Peru **Improvement for Production Management and Control Using Lean Manufacturing Tools in the Manufacturing of Posts and Accessories** Jose Alvarez, Juan Quiroz, Mariella Ortiz Bailon, Ruben Vera, Peru **Proposal for an early warning system against flood risks in the urban area of Milagro Cantón, Ecuador** Andres Murillo, Rosa Pin, Gabriela Vega, Jesús Hechavarría, Ecuador **Productivity model focused on Six Sigma and Lean Manufacturing to improve the quality of service in SMEs in Peru** Gianpierre Zapata, Peru

Detailed Technical Program

40	IHIET 8: Emerging Technologies and Applications IV Session Chair(s): Flavio Arroyo, Peru and Cristhoffer Morales, Peru

14:30 - 16:30 (EDT) - TOULOUSE	**Fraud Detection in a Financial Payment System.**
	    Dushani Perera, Maneesha Rajaratne, Nihal Kodikara, Damitha Sandaruwan, Sri Lanka
	Application of human factors engineering principles to the design and development of medical wearable sensor for cardiac monitoring
	    Natalia Glazkova, Clement Fortin, Tatiana Podladchikova, Russia
	Improvement of the Polymer Insulation Production Process Using Lean Manufacturing Tools and Plant Layout Design
	    Jose Alvarez, Flavio Arroyo, Pebelyh Coral, Jhonatan Cabel, Peru
	Supply Chain Management based on House of Risk: A case study in a Peruvian banana company
	    Edgar Ramos, Carla Avila, Gianfranco Arauco, Miguel Shinno, Peru
	Process Improvement Proposal for the Reduction of Machine Setup Time in a Copper Transformation Company Using Lean Manufacturing Tools
	    Nestor Mamani, Cristhoffer Morales, Anthony Lora, Peru

41	**IHIET 8: Emerging Technologies and Applications V** Session Chair(s): Mario Quintanilla, Peru and Jose Calderon, Peru

14:30 - 16:30 (EDT) - STRASBOURG	**Combined method of redesign for the packing area in a Peruvian bakery SME Provider of National Food Programs**
	    Luis Cardenas, Edgardo Carvallo, Iliana Macassi, Mario Quintanilla, Johana Congona, Peru
	Production model to increase productivity and delivery compliance in the Peruvian textile sector by applying Value Stream Mapping, 5S and Flexible Production Systems
	    Daniel Aderhold, Víctor Barzola, José Calderón, Gino Viacava, Peru
	Production Model for the Reduction of Order Delivery Time in a Peruvian Metalworking Company Based on the Six Sigma DMAIC Methodology
	    Jose Alvarez, Miriam Criollo Marcavillaca, Anelit Espinoza Cuadros, Pablo Mendoza, Peru
	Mobile Phone Usage Habits of Chinese Graduate Students' and the Training of MTI Interpreters
	
	    Weihua Du, China
	Governance of Ambient Assisted Living for Age Friendly Inclusive Cities
	    Somesh Sharma, Alberto Gianoli, Harry Geerlings, Netherlands

Posters will be displayed Friday, August 28, 2020 and Saturday, August 29, 2020. Posters must be removed by the end of each day/session they are scheduled to be demonstrated. Posters can be positioned starting on Friday, August 28, 2020 8:00 a.m. and removed by the last poster session on Saturday, August 29, 2020, after 16:30. Poster demonstration sessions will be at the times shown below.

Virtual Conference program schedule is listed in Eastern Daylight Time (EDT) - New York Timezone

POSTER/DEMONSTRATION SESSIONS, FRIDAY, AUGUST 28, 2020
Session Time: 10:30 - 13:30 (EDT)

A1. **Sound perception in 3D virtual environments: Application to a Roman theatre of Hispania**
Javier Alayón, José Antonio Romero-Odero, Miguel Galindo, Francisco José Nieves, Sara Girón-Borrero, Spain

A2. **Neurostars: VR application to visualize and manipulate multiple sources of brain imaging**
Alexis Souchet, Duval Tanguy, Julien Letemple, Clément Saint-Jean, Stéphanie Philippe, Vincent Lubrano, France

A3. **A Cyber-Physical System for Low Cost Monitoring and Sensing of Rural Areas Using Sensors, Microcontrollers and LoRa Network: Agriculture 4.0**
Teodiano Bastos-Filho, Ana Cecilia Villa-Parra, João Lopes, Brazil

A4. **Looking at Driving Automation from a Passenger's Perspective: Driving Experience and Gaze Behavior during Fully Automated vs. Human Vehicle Control**
Cornelia Schmidt, Franziska Hartwich, Josef F. Krems, Germany

A5. **Early Detection of Foodborne Illnesses in Social Media**
Jacky Casas, Elena Mugellini, Omar Abou Khaled, Switzerland

A6. **Study on Software Log Anomaly Detection System with Unsupervised Learning Algorithm**
Rin Hirakawa, Yoshihisa Nakatoh, Keitaro Tominaga, Japan

A7. **Training in immersive virtual reality: A short review of presumptions and the contextual interference effect**
Cyrill Ziegler, Andreas Papageorgiou, Mathias Hirschi, Rosina Genovese, Oliver Christ, Switzerland

A8. **User research in version upgrade of a physiotherapy clinic management software: Physio Plus Tech**
Ram Prakash Suriyanarayanan, Germany

POSTER/DEMONSTRATION SESSIONS, FRIDAY, AUGUST 28, 2020
Session Time: 14:30 - 16:30 (EDT)

B1. **Sitting posture discrimination, method for back pain prevention system**
     Joumori Daiki, Rin Hirakawa, Hideaki Kawano, Kenichi Nakashi,
     Yoshihisa Nakatoh, Japan

B2. **Effective Speech Features for Distinguishing Mild Dementia Patients from Healthy Person**
     Kazu Nishikawa, Rin Hirakawa, Hideaki Kawano, Kenichi Nakashi,
     Yoshihisa Nakatoh, Japan

B3. **Blink Detection Using Image Processing to Predict Eye Fatigue**
     Akihiro Kuwahara, Rin Hirakawa, Hideaki Kawano, Kenichi Nakashi,
     Yoshihisa Nakatoh, Japan

B4. **Monitoring of sweat parameters and biomarkers for the development of a multisensing cognitive wearable sensor: the WeCare project**
     Lafaye Céline, Saubade Mathieu, Switzerland

B5. **Identifying High Performance Indicators for Close Combat Forces in a Military Training Environment**
     Rory O'Brien, Kenneth Pitts, Jay Brimstin, United States

B6. **Intent Inference of Driver's Deceleration Behavior Using Unscented Kalman Filter Integrated with Conventional Artificial Neural Network Model**
     Hironori Suzuki, Sho Wakabayashi, Japan

B7. **Design of an innovative system for safety and health at work applied to construction**
     Julián Casañas Cómbita, Daniela Burbano Valencia, Nathalia Cortes Leal,
     Valentina Espinosa Morales, Estefany Rey Becerra, Colombia

B8. **Using a Virtual Reality Simulator to Enhance Soldier Lethality**
     Florence Chua, ISABELLE moderski, Robert DeMarco, Benjamin Wilt,
     Kelly Martin, Gordon Cooke, Alexis Cady, John Riedener, Gladstone Reid,
     Elizabeth Mezzacappa, United States

B9. **How does the COM position of the vacuum cleaner affect muscle activity while vacuuming?**
     Difu Qin, Zhanxun Dong, China

POSTER/DEMONSTRATION SESSIONS, SATURDAY, AUGUST 29, 2020
Session Time: 10:30 - 13:30 (EDT)

C1. **Speaker Verification Method Using Hierarchical Temporal Memory for Security System**
Yuki Sakaguchi, Rin Hirakawa, Hideaki Kawano, Kenichi Nakashi, Yoshihisa Nakatoh, Japan

C2. **Effects of Colors toward Pleasant Impression on Sofa Furniture through Electroencephalography (EEG)**
Phetnidda Ouankhamchan, Tsutomu Fujinami, Japan

C3. **A mixed reality interface for handheld 3D scanners**
Jérôme Isabelle, Denis Laurendeau, Canada

C4. **Symbols and Functions in Human Machine Interface: Are Google Icons a Possible Solution for Intercultural Usability**
Andreas Papageorgiou, Kamalatharsi Mutuura, Oliver Christ, Switzerland

C5. **Validation of driving simulation in a virtual reality setting: the effects of age, sex and simulation technology on driving behavior**
Oliver Christ, Kaspar Kaufmann, Simon Wehrli, Emanuel Mistretta, Stefan Arisona, Thomas Wyssenbach, Simon Schubiger, Switzerland

C6. **Profiles of professional drivers based on drowsiness and distraction alerts**
Sónia Soares, Zafeiris Kokkinogenis, Sara Ferreira, António Couto, Portugal

POSTER/DEMONSTRATION SESSIONS, SATURDAY, AUGUST 29, 2020
Session Time: 14:30 - 16:30 (EDT)

D1. **The display of conformal symmetry in lungs formation of human fetuses**
Galina Spirina, Russia

D2. **Emotional work and organizational culture in colombian health institutions. a multidimensional construction**
Olga Helena Piñeros Mora, Carlos Armando Marín Valencia, Colombia

D3. **Intra-work Conditions. Objective of the Organizational Management for the Healthy Company**
Carlos Armando Marín Valencia, Olga Helena Piñeros Mora, Colombia

D4. **The ergonomic evaluations of three front baby carriers: mother's perspective**
Chao-Yin Wu, Hsiao Rong Huang, Mao Jiun Wang, Taiwan

D5. **Simplified Indoor Localization Data Acquisition by Use of Recurrent LSTM Networks on Sequential Geomagnetic Vectors**
Benny Platte, Rico Thomanek, Christian Roschke, Tony Rolletschke, Frank Zimmer, Marc Ritter, Germany

D6. **Segmentation of musculotendinous structures of the hip from 3D imaging for patient-specific individualization of biomechanical simulations**
Christopher Fleischmann, Stefan Sesselmann, Jörg Miehling, David Scherb, Alexander Wolf, Sandro Wartzack, Germany

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