Opening
Plenary Session
and Keynote Address

Thursday, April 23, 2020 at 13:30-15:00
Amphitheatre (Level 1), Centre Hospitalier Universitaire Vaudois (CHUV)
Address: Centre Hospitalier Universitaire Vaudois (CHUV)
Rue du Bugnon 46, 1005 Lausanne, Switzerland

Keynote Address

Thursday, April 23, 2020 at 13:30-15:00

Title:
Real World Movement Analysis in Sport and
Medicine Using Wearable Technologies

Speaker:
Prof. Kamiar Aminian, Ecole Polytechnique Federale de Lausanne, Switzerland

Conference
Reception/Banquet

Thursday, April 23, 2020 at 18:30-22:00

(Dress is business casual, Registered Participants, Photo ID Required)

18:30 - 22:00 - Conference Reception
The Olympic Museum in Lausanne- Le Musée Olympique.
Reception Address: Quai d'Ouchy 1, 1006 Lausanne, Suisse

Conference Track Chairs

Vincent Gremeaux-Bader (Switzerland)
Redha Taiar (France),
Kamiar Aminian (Switzerland)

International Scientific Advisory Board

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B. Molik, Poland
A. Nadia, Bulgaria

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Conference at a Glance

Friday, April 24

#	TITLE	ROOM	TRACK
	Session Time: 9:00 - 11:00		
1	IHIET 1: Augmented Human Research: Applications in Sport and Medicine	Zürich	IHIET 1
2	IHIET 2: Human-centered Design I	Geneva	IHIET 2
3	IHIET 3: Artificial Intelligence and Computing I	Bern	IHIET 3
4	IHIET 4: Augmented, Virtual and Mixed Reality Simulation	Basel	IHIET 4
	11:00 - 11:30 • Coffee Break - Refreshments will be provided		
	Session Time: 11:30 -13:30		
5	IHIET 6: Human–computer Interaction I	Zürich	IHIET 6
6	IHIET 7: Healthcare and Medical Applications I	Geneva	IHIET 7
7	IHIET 9: Human-Technology and Future of Work I	Bern	IHIET 9
8	IHIET 10: Emerging Technologies I	Basel	IHIET 10
	13:30 - 14:30 • Lunch Break		
	Session Time: 14:30 -16:30		
9	IHIET 11: Management, Training and Business Applications I	Zürich	IHIET 11
10	IHIET 2: Human-centered Design II	Geneva	IHIET 2
11	IHIET 3: Artificial Intelligence and Computing II	Bern	IHIET 3
12	IHIET 6: Human–computer Interaction II	Basel	IHIET 6
	16:30 - 17:00 • Coffee Break - Refreshments will be provided		

Conference at a Glance

#	Title	Room	Track
	Session Time: 9:00 - 11:00		
13	IHIET 7: Healthcare and Medical Applications II	Zürich	IHIET 7
14	IHIET 9: Human-Technology and Future of Work II	Geneva	IHIET 9
16	IHIET 11: Management, Training and Business Applications II	Basel	IHIET 11
	11:00 - 11:30 • Coffee Break - Refreshments will be provided		
	Session Time: 11:30 - 13:30		
20	IHIET 7: Healthcare and Medical Applications III	Zürich	IHIET 7
	13:30 - 14:30 • Lunch Break		
	Session Time: 14:30 -16:30		
22	IHIET 11: Management, Training and Business Applications III	Bern	IHIET 11

Acronym	Track
IHIET 1	Augmented Human Research: Applications in Sport and Medicine
IHIET 2	Human-centered Design
IHIET 3	Artificial Intelligence and Computing
IHIET 4	Augmented, Virtual and Mixed Reality Simulation
IHIET 5	Wearable Technologies Applications in sport, Health, Disease and Rehabilitation
IHIET 6	Human–computer Interaction
IHIET 7	Healthcare and Medical Applications
IHIET 8	Sports Medicine, Biomechanics and Fitness Technology
IHIET 9	Human-Technology and Future of Work
IHIET 10	Emerging Technologies
IHIET 11	Management, Training and Business Applications

Detailed Technical Program

1	**IHIET 1: Augmented Human Research: Applications in Sport and Medicine** Session Chair(s): Alvaro Taveira, USA and Kristyna Rusnakova, Czech Republic

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

2	**IHIET 2: Human-centered Design I** Session Chair(s): Amangul Imanghaliyeva, UK and Evangelos Markopoulos, UK

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

Virtual Reality and the Architectural Evaluation Process
  Christianne Falcão, Breno Carvalho, Susanna Lima, Brenda Calife, Brazil

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

3	**IHIET 3: Artificial Intelligence and Computing I** Session Chair(s): Tiffany D'Souza, USA and Luepol Pipanmekaporn, Thailand

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

Development of Web Application in English Subject
  Busarin Eamthanakul, Orrawan Rewthong, Sansanee Sansiribhan, Thailand

4	**IHIET 4: Augmented, Virtual and Mixed Reality Simulation** Session Chair(s): Francesco Carrino, Switzerland and Petr Svoboda, Czech Republic

9:00 - 11:00 - BASEL	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

11:00 - 11:30 • Coffee Break - Refreshments will be provided

5	**IHIET 6: Human–computer Interaction I** Session Chair(s): Jean-Francois Lapointe, Canada and Yeslam Al-Saggaf, Australia

11:30 -13:30 - ZÜRICH	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 7: Healthcare and Medical Applications I** Session Chair(s): Peter Forbrig, Germany and Rudolf Fischer, Germany

11:30 -13:30 - GENEVA	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 9: Human-Technology and Future of Work I** Session Chair(s): Deborah Middleton, Saudi Arabia and Fernando Galdon, UK

11:30 -13:30 - BERN

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

8	**IHIET 10: Emerging Technologies I** Session Chair(s): Yeslam Al-Saggaf, Australia and Nicolay Vasilyev, Russia

11:30 -13:30 - BASEL

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

	13:30 - 14:30 • Lunch Break

9	**IHIET 11: Management, Training and Business Applications I** Session Chair(s): Maurizio Caon, Switzerland and Carlos Raymundo, Peru

14:30 -16:30 - ZÜRICH

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

10	**IHIET 2: Human-centered Design II** Session Chair(s): Pertti Saariluoma, Finland and Kevin Clark, USA

14:30 -16:30 - GENEVA

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

11	**IHIET 3: Artificial Intelligence and Computing II** Session Chair(s): Amangul Imanghaliyeva, UK and Iman Al-dahhan Al-dahhan, Iraq

14:30 -16:30 - BERN

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

Mapping of mangrove change with remote sensing in Samut Songkhram Province, Thailand
>Walaiporn phonphan, Thailand

Species Diversity and Abundance of Birds in Salt field Areas, Shrimp farm Areas and Rice field Areas for Ecotourism in Thailand
>Nitinarth Charoenpokaraj, Walaiporn phonphan, Wisoot Nuamsiri, Thailand

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

12	**IHIET 6: Human–computer Interaction II** Session Chair(s): Dev Raj Lamichhane, UK and Valentina Milenkova, Bulgaria

14:30 -16:30 - BASEL

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

16:30 - 17:00 • Coffee Break - Refreshments will be provided

13	**IHIET 7: Healthcare and Medical Applications II** Session Chair(s): Ying-Chieh Liu, Taiwan and Irina Kurnikova, Russia

9:00 - 11:00 - ZÜRICH

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

14	**IHIET 9: Human-Technology and Future of Work II** Session Chair(s): Evangelos Markopoulos, United Kingdom and Fernando Galdon, UK

9:00 - 11:00 - GENEVA

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

16	**IHIET 11: Management, Training and Business Applications II** Session Chair(s): Kanyarat bussaban, Thailand and Carlos Raymundo, Peru

9:00 - 11:00 - BASEL

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

	11:00 - 11:30 • Coffee Break - Refreshments will be provided

20	**IHIET 7: Healthcare and Medical Applications III** Session Chair(s): Alan Liu, USA and Djamel Aissaoui, Switzerland

11:30 - 13:30 - ZÜRICH

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

The asessment of EIQ (Environment Impact Quotient) Field Use Rating from the rate of pesticides in paddy, Bang Rachan District, Sing Buri province
> Talisa Niemmanee, 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

	13:30 - 14:30 • Lunch Break

22	**IHIET 11: Management, Training and Business Applications III** Session Chair(s): Christian Iberico, Peru and Yuler Montalvo, Peru

14:30 - 16:30 - BERN

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

	16:30 - 17:00 • Coffee Break - Refreshments will be provided

Interactive Poster Demonstrations

Posters will be displayed Friday, April 24, 2020 and Saturday, April 25, 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, April 24, 2020 8:00 a.m. and removed by the last poster session on Saturday, April 25, 202, after 16:30. Poster demonstration sessions will be at the times shown below.

POSTER/DEMONSTRATION SESSIONS FRIDAY, APRIL 24
Session Time: 10:30 - 13:30
Room: Foyer

A1. **Early Detection of Foodborne Illnesses in Social Media**
     Jacky Casas, Elena Mugellini, Omar Abou Khaled, Switzerland

A2. **Study on Software Log Anomaly Detection System with Unsupervised Learning Algorithm**
     Rin Hirakawa, Yoshihisa Nakatoh, Keitaro Tominaga, Japan

A3. **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

A4. **Surgical Recommendations for Epilepsy: A Machine Learning Tool**
     Tiffany Dsouza, Caio Marconato Matias, Lohit Velagapudi, Alexander Mitts, Bryan Sadler, David Vuong, Dominick Battistini, United States

A5. **Parametric Hospital**
     Leonardo Dias, Brazil

A6. **Monitoring of sweat parameters and biomarkers for the development of a multisensing cognitive wearable sensor: the WeCare project**
     Lafaye Céline, Saubade Mathieu, Switzerland

A7. **Limitations on learning through technology**
     Enrique Garcia Vazquez, Miguel Angel Cruz Dominguez, Abelardo Rivera Corsi, Mexico

A8. **Identifying High Performance Indicators for Close Combat Forces in a Military Training Environment**
     Rory O'Brien, Kenneth Pitts, Jay Brimstin, United States

A9. **Intent Inference of Driver's Deceleration Behavior Using Unscented Kalman Filter Integrated with Conventional Artificial Neural Network Model**
     Hironori Suzuki, Sho Wakabayashi, Japan

Interactive Poster Demonstrations

B1. **Symbols and Functions in Human Machine Interface: Are Google Icons a Possible Solution for Intercultural Usability**
Andreas Papageorgiou, Kamalatharsi Mutuura, Oliver Christ, Switzerland

B2. **Validation of driving simulation in a virtual reality setting: the effects of age, sex and simulation technology on driving behavior**
Kaspar Kaufmann, Simon Wehrli, Emanuel Mistretta, Stefan Arisona, Simon Schubiger, Thomas Wyssenbach, Oliver Christ, Switzerland

B3. **Effectiveness and durability of Silver-based Antimicrobial textiles in the healthcare environment**
Daniela Rondinone, Kavita Mathur, Blanton Godfrey, Martin King, United States

B4. **Identification and evaluation of human error by H-FMEA technique in overhead cranes operators of a Steel Industry in Khuzestan**
Behnoush Jafari, zeynab sadat nezamodini, Arman amiri, Hanan Sari, Seyd Amin Jazayeri, Iran

B5. **The use of modern ICT to ensure students' self-realization in learning communications of the university**
Elena Shutenko, Russia

B6. **Educating through social networks**
Selene Margarita Vazquez Soto, Abelardo Rivera Corsi, Gerardo Jesùs Carabes Real, Mexico

B7. **Profiles of professional drivers based on drowsiness and distraction alerts**
Sónia Soares, Zafeiris Kokkinogenis, Sara Ferreira, António Couto, Portugal

C1. **The display of conformal symmetry in lungs formation of human fetuses**
Galina Spirina, Russia

C2. **Emotional work and organizational culture in colombian health institutions. a multidimensional construction**
Olga Helena Piñeros Mora, Carlos Armando Marín Valencia, Colombia

C3. **Intra-work Conditions. Objective of the Organizational Management for the Healthy Company**
Carlos Armando Marín Valencia, Olga Helena Piñeros Mora, Colombia

C4. **Assessing the Impact of Variation Orders on Construction Projects In Tema Metropolis,Ghana**
Isaac yeboah, Ghana

C5. **A Suggestion of Human Error 3.0 Concept for the Safety of High-Reliability Systems**
Lee yonghee, South Korea

POSTER/DEMONSTRATION SESSIONS SATURDAY, APRIL 25
Session Time: 14:30 - 16:30
Room: Foyer

D1. **The ergonomic evaluations of three front baby carriers: mother's perspective**
Chao-Yin Wu, Hsiao Rong Huang, Mao Jiun Wang, Taiwan

D2. **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

D3. **Human error evaluation: A case study in the control room of an alcohol plant using SPAR-H and CREAM techniques**
Zeinab mosavianasl, Zahra Rezvani, zeynab sadat nezamodini, Iran

D4. **Storage Practices of Concreting Materials on Construction Firms in Accra, Ghana**
Paula agbeko, Ghana

D5. **Creative process of construction of houses with recycled material**
Jessica Vianney Garcia Vazquez, Miguel Angel Cruz Dominguez, Humberto Diaz Baleon, Mexico

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