

## Programme of Monday, July, 25, 2016

8:30 - 16:00 Registration (All Day)

9:00 - 10:30 **Tutorial I, Room KSW 4+5**

Paul Wu Horng Jyh, SIM University, Singapore

Learning Enterprise Resource Planning (ERP) through Business Simulation Game

**Tutorial II, Room KSW 6**

William Yu Chung Wang, Auckland University of Technology, New Zealand

Integrating Supply Chain by the Supply Chain Operation Referential Model

10:30 - 11:00 Coffee break

11:00 - 12:30 **Tutorial I, Room KSW 4+5**

Paul Wu Horng Jyh, SIM University, Singapore

Learning Enterprise Resource Planning (ERP) through Business Simulation Game

**Tutorial II, Room KSW 6**

William Yu Chung Wang, Auckland University of Technology, New Zealand

Integrating Supply Chain by the Supply Chain Operation Referential Model

12:30 - 13.30 Lunch break

13:30 - 15:00 **Tutorial III, Room KSW 6**

K. Chandrasekaran, National Institute of Technology Karnataka, India

Secure Knowledge Management

**Tutorial IV, Room KSW 4+5**

Brett Oppegaard, University of Hawaii, USA

Putting Education Back Into Place: Exploring the Potential of Locative Learning Through Mobile Technologies

15:00 - 15.30 Coffee break

15:30 - 17:00 **Tutorial III, Room KSW 6**

K. Chandrasekaran, National Institute of Technology Karnataka, India

Secure Knowledge Management

**Tutorial IV, Room KSW 4+5**

Brett Oppegaard, University of Hawaii, USA

Putting Education Back Into Place: Exploring the Potential of Locative Learning Through Mobile Technologies

## Programme of Tuesday, July, 26, 2016

8:30 - 16:00 Registration (All Day)

9:00 - 10:30

**Plenary Room (KSW 1-3) - Opening Session**  
 Chaired by Lorna Uden, Conference General Chair, Professor Staffordshire University, UK and  
 Birgit Feldmann, Local Chair, Head of Department Digital Media Services, Zentrum für Medien und IT, FernUniversität in Hagen  
 Moderated by Bernd Hamer  
**Welcome**  
 Ada Pellert, Rector of FernUniversität in Hagen  
**Keynote**  
 Professor Andreas Dengel, Director of DFKI Kaiserslautern, Germany  
**"Digital Co-Creation and Augmented Learning"**

10:30 - 11:00 Coffee break

11:00 - 12:30

| <b>KMO Session I, KSW 1+2</b>  | <b>KMO Session II, KSW 4+5</b>   | <b>LTEC Session I, KSW 6</b>   |
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| Room:<br>Session Chair: Houn-Gee Chen<br><u>Information Technology &amp; Knowledge Management</u>  | Room:<br>Session Chair: I-Hsien Ting<br><u>Innovation and Creation</u>   | Room: KSW<br>Session Chair: Jane Sinclair<br><u>Case Study</u>   |
| An Adaptive Procedure for Setting Multiple Issues in Bilateral Negotiation with Time Constraints<br><i>Jieyu Zhan, Yudong Luo, Fenghui Ren, Minjie Zhang and Mukun Cao</i>             | Sense Making in a Small Renovating Planning Process<br><i>Marja Naaronja and Lorna Uden</i>                          | Teaching Information Literacy in Secondary Education: How to Design Professional Development for Teachers?<br><i>Sabine Seufert, Nina Scheffler, Katarina Stanoevska-Slabeva and Severina Müller</i> |
| Computationally Efficient Fault Tolerant ANTS<br><i>Ankit Tripathi, Anant Maheshwari and K. Chandrasekaran</i>   | The Perceive Values of Service Industry Innovation Research Subsidiary in Taiwan<br><i>Yu-Hui Tao and Lorna Uden</i> | Can K-12 Students Learn How to Program with just Two Hours?<br><i>Kadri Umbleja</i>  |
| A Multi relational Framework for Knowledge Classification of Gene/protein Localization using Fuzzy Decision Tree in Biological System<br><i>Muthuraman Thangaraj and Vijayalakshmi</i> | On Demand Innovative Course for Regional Development<br><i>Anne-Maria Aho and Lorna Uden</i>                         | Establishing Meta-Learning Metrics When Programming Mindstorms EV3 Robots<br><i>Michael Vallance</i>   |
| A new Approach in Face Cognition: Duplicating Facial Images Bases on Correlation Study<br><i>R Senthikumar and R K Gnanamurthy</i>   | Adoption of Bring Your Own Device in HE & FE Institutions<br><i>Hilary Berger and James Symonds</i>                  | Three Curriculum Maturing Cycles in Academic Curriculum Management Systems<br><i>Kai Pata, Kairit Tammets, Vladimir Tomberg, Mohammad Al-Smadi and Mart</i>  |

12:30 - 13:30 Lunch break

## Programme of Tuesday, July, 26, 2016

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| <p><b>13:30 - 15:00</b></p> | <p><b>KMO Session III, Room KSW 1+2</b><br/> Room:<br/> Session Chair: Hericko Marjan<br/> <u>Knowledge Management Tools &amp; Systems</u></p> <p>Deploying the Measurement of Knowledge Management by a Balanced Scorecard<br/> <i>Eric Lau</i></p> <p>The Originals of Knowledge-Based System Development Risks<br/> <i>Houn-Gee Chen</i></p> <p>A case study on system integration efforts involved in achieving fast data in a financial industry<br/> <i>Aravind Kumaresan</i></p> <p>Knowledge management applied to Supervision and Control System of Demand Electric for Domestic Use<br/> <i>Jonnathan Armando Acosta Piragauta, Michael Gregory, Adriana Marcela Vega Escobar and Alvaro Espinel Ortega</i></p> | <p><b>LTEC Session II, Room KSW 4+5</b><br/> Room:<br/> Session Chair: Dario Liberona<br/> <u>Learning Technologies</u></p> <p>Proposal of a standard architecture of Io for Smart Cities<br/> <i>July Katherine Diaz Barriga, Christian David Gomez Romero and Jose Ignacio Rodriguez Molano</i></p> <p>Understanding the Competency of Middle Managers on Different Business Environments: A Knowledge Management Perspective<br/> <i>Yasuhiro Sasaki, Masaaki Kunigam and Takao Terano</i></p> <p>Impact of Knowledge Management and Change Management on the Effectiveness of the Firm: Evidence from the Russian Companies<br/> <i>Yuri Zelenkov</i></p> |
| <p><b>15:00 - 15:30</b></p> | <p><b>Coffee break</b></p>  |   |
| <p><b>15:30 - 17:00</b></p> | <p><b>KMO Session IV, Room KSW 1+2</b><br/> Room:<br/> Session Chair: Eric Kin-Wai Lau<br/> <u>Information Technology &amp; Knowledge Management</u></p> <p>One Cloud Computing Node in One IP<br/> <i>Ran Tao, Guohua Liu and Youqun Shi</i></p> <p>Co creation of value for Tunesian Environmental Scanning Agriculture Observatory<br/> <i>Souad Chouk and Lorna Uden</i></p> <p>Cyber Security &amp; Ethical Hacking For SMEs<br/> <i>Hilary Berger and Andrew Jones</i></p> <p>Information Security Recipe in Small- and Medium-Sized Enterprises: An Interpretive Study in Japan<br/> <i>Yoko Ishino</i></p>  | <p><b>LTEC Session III, Room KSW 4+5</b><br/> Room:<br/> Session Chair: Brett Oppegaard<br/> <u>Learning Tools and Environment</u></p> <p>Investigating the Experience of Moodle Adoption Through Expert Voices<br/> <i>Jane Sinclair and Anne-Maria Aho</i></p> <p>Learning Strategies and Interpersonal Relationships of Students Learning Cooperatively Online<br/> <i>Jonathan Kaplan</i></p> <p>Teaching Students to Learn IDEA: The Impact of Learner Attitudes<br/> <i>D'Arcy Becker, Dawna Drum and Aimee Pernsteiner</i></p> <p>Emotion Determination in eLearning Environments Based on Facial Landmarks<br/> <i>Tobias Augustin</i></p>            |
| <p><b>17:00 - 20:00</b></p> | <p><b>Hagen City Tour</b></p>   |   |
| <p><b>20:00 - 21:30</b></p> | <p><b>Snacks and Soft Drinks in the Mercure Hotel</b></p>   |   |

**Programme of Wednesday, July, 27, 2016**

**8:30 - 17.00 Registration (All Day)**

**9:00 - 10:15**

**Plenary Room (KSW 1-3) - Keynote Session**  
 Chaired by Lorna Uden, Conference General Chair, Professor Staffordshire University, UK and Birgit Feldmann, Local Chair, Head of Department Digital Media Services, Zentrum für Medien und IT, FernUniversität in Hagen  
 Moderated by Bernd Hamer  
**Keynote**  
 Shen Chuan Wu, Franz Inc.'s Vice President of Corporate Development  
**"Why Knowledge when Data Suffices"**

**10:15 - 10:45 Coffee break**

**10:45 - 12:15**

| <b><i>KMO Session V, Room KSW 1+2</i></b>   | <b><i>KMO Session VI, Room KSW 4+5</i></b>   | <b><i>LTEC Session IV, Room, KSW 6</i></b>   |
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| Session Chair: Paolo Ceravolo<br><u><i>Knowledge Management Processes</i></u>   | Session Chair: Hilary Berger<br><u><i>Education and Learning, Knowledge Transfer &amp; Sharing</i></u>   | Session Chair: Wai-En Chen<br><u><i>Learning Technologies, Case Study</i></u>  |
| Improving the Business Processes Management from the Knowledge Management<br><i>Marta Tabares, Liliana Giraldo and Luis Joyanes</i>                         | Knowledge Transfer in Internships from a students' perspective<br><i>Reinhard Bernsteiner and Stephan Schlögl</i>  | Course Implementation: Value-Added Mode<br><i>Vello Kukk</i>   |
| Positive Knowledge Management - Changing Perceptions towards Knowledge Processes in Organizations<br><i>Jan Pawlowski</i>                                   | Creating incentives for knowledge sharing: combining context and signaling<br><i>Jouni A. Latinen and Dai Senoo</i>  | Establishing Meta-Learning Metrics When Programming Mindstorms EV3 Robots<br><i>Michael Vallance</i>   |
| Exploring Chaotic Performance in Projects and its Relationship with Knowledge Creation Process<br><i>Rasha Abou Samra and Khaled Shaalan</i>                | Developing entrepreneurial education at the university focused on start-ups<br><i>Anna Zavodska, Veronika Sramova and Andrej Rybovic</i>   | Using games to improve learning skills in students with cognitive disabilities through Kinect technology<br><i>Roberto Ferro, Dacarth Sarmiento and Yesid Diaz</i> |
| Knowledge marketplaces: enhances knowledge creation and diffusion amongst national civil society organisations in developing countries<br><i>Tom Kwanya</i> | Knowledge Management in Distance Education: an Exploratory Case Study with Group Storytelling Approach<br><i>Maria Teresa Gouvea, Flávia Maria Sanotor, Claudia Capelli and Mariano Pimentel</i> | Web Framework for Developing Real Time Applications for Education<br><i>Cristóbal Ganter and Werner Creixell</i>   |

**12:15 - 13:15 Lunch break**

## Programme of Wednesday, July, 27, 2016

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| <p><b>13:15 - 14:45 KMO Session VII, Room KSW 1+2</b></p> <p>Session Chair: Dai Senoo<br/><u>Data Mining and Machine Learning</u></p> <p>Translating Process Mining Results into Intelligible Business Information<br/><i>Paolo Ceravolo, Antonia Azzini, Ernesto Damiani, Mariangela Lazoi, Manuela Marra and Angelo Corallo</i></p> <p>Exploring data by PCA and k-means for IEEE Xplore digital library<br/><i>John Petearson Anzola, Luz Andrea Rodriguez and Giovanni Mauricio Tarazona</i></p> <p>A Study on the Efficient R&amp;D Theme Selection Method with Machine Learning<br/><i>Masashi Shibata, Koichi Inoue and Masakazu Takahashi</i></p> <p>Study on dual K-means algorithms in collaborative filtering system based on web log<br/><i>Dongmeng Guo, Yun Liu, Jian Li, Fei Xiong and Yixiang Zhu</i></p> | <p><b>LTEC Workshop Lifelong Learning, Room KSW 4+5</b></p> <p>Held by Eva Cendon, FernUniversität in Hagen<br/><u>Lifelong learning at universities and the role of technology</u></p> | <p><b>LTEC Session V, Room KSW 6</b></p> <p>Session Chair: Michael Vallance<br/><u>Learning Technologies</u></p> <p>Revisiting mathematical textbooks problems in a technology enhanced learning environment<br/><i>Matías Camacho-Machin, Mar Moreno and Manuel Santos-Trigo</i></p> <p>The knowledge management into technology based firms ((Model proposal)<br/><i>Jorge Leonardo Puentes , Nancy Yurani Ortíz and Jose Ignacio Rodriguez Molano</i></p> <p>Informational technology and its relation to learning in Chile: a systematic review of the literature<br/><i>Jorge Chavez, Claudia Jaramillo and Dario Liberona</i></p> <p>Emotions and Connections are Ubiquitous in Second Life<br/><i>Ioanna Giannakou, Fotini Paraskeva, Aikaterini Alexiou and Hara Bouta</i></p> |
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### 14:45 - 15:15 Coffee break

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| <p><b>15:15 - 16:45 KMO Session VIII, Room KSW 1+2</b></p> <p>Session Chair: Yu-Hui Tao<br/><u>Social and Spatial Analysis &amp; Techniques</u></p> <p>MDBSCAN: Multi-level Density Bases Spatial Clustering of Applications with Noise<br/><i>Shimei Wang, Yun Liu, Bo Shen and Quing Liu</i></p> <p>Knowledge Mangement Role on Creating Service Excellence (Case Study on Building Materials Supermarket in the city of Sampit - Indonesia<br/><i>Didi Sundiman and Soni Santiago Putra</i></p> <p>Semantic Mediation of Metadata for Marine Geochemical Data Integration<br/><i>Xiahong Wang, Tenglong Hong, Jianliang Hu, Mingtao Liu and Hongtao Liang.</i></p> <p>Measuring the Effect of Social Network Data on Music Recommendation<br/><i>I-Hsien Ting</i></p> | <p><b>LTEC Session VI, Room KSW 4+5</b></p> <p>Session Chair: D'Arcy Becker<br/><u>Mooc for Learning</u></p> <p>A practical experience on the use of gamification in MOOC courses as a strategy to increase motivation<br/><i>Miguel Morales, Héctor R. Amado-Salvatierra, Rocael Hernández, Johanna Pirker and Christian Gütl</i></p> <p>From MOOC to GOAL: Ubiquitous Networked Learning in Higher Education<br/><i>Sabine Siemsen</i></p> <p>Case Study on Using MOOC Materials in a Small Private Online Course<br/><i>Whai-En Chen</i></p> <p>Open education - a challenge for e-training<br/><i>Victorija Florjancic</i></p> |
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### 18:30 - 22:00 Cocktail Reception and Conference Dinner (Mercure Hotel Hagen)

## Programme of Thursday, July, 28, 2016

8:30 - 12:00 Registration

9:00 - 10:15

### **Plenary Room (KSW 1-3) - Keynote Session**

Chaired by Lorna Uden, Conference General Chair, Professor Staffordshire University, UK and  
Birgit Feldmann, Local Chair, Head of Department Digital Media Services, Zentrum für Medien und IT, FernUniversität in Hagen

Moderated by Bernd Hamer

#### **Keynote**

Martin Oliver, UCL Institute of Education, UK

**"Of clouds and cables: what do students need when they learn with technology?"**

10:15 - 10:45 Coffee break

10:45 - 12:15 **KMO Session IX, Room KSW 1+2**

Room:

Session Chair: K Chandrasekaran

Intelligent Data Analysis

IMR based Anonymization for Privacy Preservation in Distributed Databases  
*Arumugam G and Jane Varamani Sulekha V*

Providing Support for Automated Product Data Quality Assurance - A Case Study  
*Alexandra Jäger and Ruth Brey*

The Impact of Corporate Social Responsibility on the Firm's Financial  
Performance: The Case of Publicly Listed Companies in the United Arab Emirates  
*Sahar Mansour*

Influence of News on Individual Confidence Bias in Stock Markets  
*Mukund Y R, Naresh V, Sourabh Patil, Chandrasekaran K, V Vijaya Kumar and R K Gnanamurthy*

**KMO Session X, Room KSW 4+5**

Room:

Session Chair: Eric Kin-Wai Lau

Education and Learning, Knowledge Transfer & Sharing

Knowledge sharing techniques amongst jua kali artisan's in Kenya  
*Lucy Kibe*

The Relationship between Open Education Resources (OER) Mobilization  
and Intellectual Capital  
*Elizondo and Javier Carrillo*

Indigenous knowledge research in Kenya: a bibliometric analysis  
*Tom Kwanya and Joseph Kiplang'At*

Enablers and Barriers of Knowledge Spiral - A Case Study  
*Fuad Al Attar and Khaled Shaalan*

**LTEC Session VII, Room KSW 6**

Room:

Session Chair: Dario Liberona

Problem Solving and Knowledge Transfer

Designing Technology-Based Tasks for Enhancing  
Mathematical Understanding through Problem Solving  
*Fernando Barrera-Mora and Aaron Reyes-Rodriguez*

Digital Technologies and a Modeling Approach to Learn  
Mathematics and Problem Solving Competencies  
*Manuel Santos-Trigo, Isaid Reyes-Martinez and Daniel Aguilar-Magalló*

Management Model and Transfer Knowledge for MSMEs  
through the Pedagogical Strategy of Simulated Enterprises  
*Sandra Bonilla Cely, Leonor Rojas Marmolejo and Victor Hugo Medina  
García*

Knowledge Management Metamodel from Social Analysis of Lessons  
Learnt Registered in the Cloud  
*José López Quintero, Victor Hugo Medina García and Cristina Pelayo  
García*

12:15 - 13:15 Lunch break

**Programme of Thursday, July, 28, 2016**

13:15 - 14:15

***Video Session, Room KSW 1+2***

Session Chair: Birgit Feldmann

***Knowledge Management and Learning Technologies***

Agent based Semantic Internet of Things (IoT) in Smart Health Care

*Muthuram Thangaraj, Picaiah Punitha Punithaponmalar, G Sujatha and Subramanian Anuradha*

Is a Virtual Learning Environment a One-Size-Fits-All Solution? A Survey of Cognitive Styles within a University Student Population

*Russell Barton and Jonathan Foster*

A practical experience on the use of gamification in MOOC courses as a strategy to increase motivation

*Héctor Amado and Johanna Pirker*

14:15 - 15:15

***Plenary Room (KSW 1-3) - Closing Ceremony***

Chaired by Lorna Uden, Staffordshire University, UK and Birgit Feldmann, Local Chair, FernUniversität in Hagen, Germany

**Best Paper KMO Award**

**Best Paper LTEC Award**

**Best Presentation KMO Award**

**Best Presentation LTEC Award**

**Presentation of Next Venue**

15:15 - 15.30 Coffee break

15:30 - 21:30 Open Air Museum Hagen