Contents

Knowledge Management Models and Behaviour Studies

Activity Theory Based Approach for Requirements Analysis of Android Applications. ................................................................. 3
   Kandiraju Sai Ashritha, T.M. Prajwala, and K. Chandrasekaran

Machine Consciousness of Mind Model CAM ........................................ 16
   Zhongzhi Shi, Gang Ma, and Jianqing Li

The Knowledge Communication Conceptual Model in Malaysian Public Sector ................................................................. 27
   Rohaizan Daud, Nor Zairah Ab Rahim, Roslina Ibrahim, and Suraya Ya’acob

Applying Process Virtualization Theory in E-HR Acceptance Research:
Testing and Modifying an Experiment ........................................ 39
   C. Rosa Yeh and Shin-Yau Hsiao

Knowledge Sharing

Virtual Teams Stress Experiment Proposal: Investigating the Effect of Cohesion, Challenge, and Hindrance on Knowledge Sharing,
Satisfaction, and Performance ...................................................... 51
   Andree E. Widjaja

Knowledge Sharing on YouTube ..................................................... 64
   Eric Kin Wai Lau

Internal Knowledge Sharing Motivation in Startup Organizations .......... 72
   Jouni A. Laitinen and Dai Senoo

Knowledge Sharing in Constructability Management ........................... 84
   Marja Naaranoja and Joni Vares

Knowledge Transfer and Learning

Skills Sets Towards Becoming Effective Data Scientists. .................... 97
   Wardah Zainal Abidin, Nur Amie Ismail, Nurazeen Maarop, and Rose Alinda Alias
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Learning Platforms Analysis for Encourage Colombian Education</td>
<td>107</td>
</tr>
<tr>
<td>Lizeth Xiomara Vargas Pulido, Nicolás Olaya Villamil,</td>
<td></td>
</tr>
<tr>
<td>and Giovanny Tarazona</td>
<td></td>
</tr>
<tr>
<td>Using a Simulation Game Approach to Introduce ERP Concepts –</td>
<td>119</td>
</tr>
<tr>
<td>A Case Study</td>
<td></td>
</tr>
<tr>
<td>Marjan Heričko, Alen Rajšp, Paul Wu Horng-Jyh, and Tina Beranič</td>
<td></td>
</tr>
<tr>
<td>Knowledge Creation Activity System for Learning ERP Concepts</td>
<td>133</td>
</tr>
<tr>
<td>Through Simulation Game</td>
<td></td>
</tr>
<tr>
<td>Horng-Jyh Paul Wu, See Tiong Beng, Marjan Heričko, and Tina Beranič</td>
<td></td>
</tr>
<tr>
<td>Entrepreneurship Knowledge Transfer Through a Serious Games Platform:</td>
<td>144</td>
</tr>
<tr>
<td>The Venture Creation Game Case</td>
<td></td>
</tr>
<tr>
<td>Dario Liberona and Cristian Rojas</td>
<td></td>
</tr>
<tr>
<td>Knowledge and Service Innovation</td>
<td>159</td>
</tr>
<tr>
<td>Knowledge for Translating Management Innovation into Firm Performance</td>
<td></td>
</tr>
<tr>
<td>Remy Magnier-Watanabe and Caroline Benton</td>
<td></td>
</tr>
<tr>
<td>Industry Perspective</td>
<td></td>
</tr>
<tr>
<td>Zahir Ahamed, Akira Kamoshida, H.M. Belal, and Chris Wai Lung Chu</td>
<td></td>
</tr>
<tr>
<td>Comparing the Perceived Values of Service Industry Innovation Research</td>
<td>182</td>
</tr>
<tr>
<td>Subsidiary Between Reviewers and Applicants in Taiwan</td>
<td></td>
</tr>
<tr>
<td>Yu-Hui Tao and Yun-An Lin</td>
<td></td>
</tr>
<tr>
<td>Validation Tools in Research to Increase the Potential</td>
<td>190</td>
</tr>
<tr>
<td>of its Commercial Application</td>
<td></td>
</tr>
<tr>
<td>Anna Závodská, Veronika Šramová, and Anne-Maria Aho</td>
<td></td>
</tr>
<tr>
<td>Knowledge and Organization</td>
<td>203</td>
</tr>
<tr>
<td>Global Studies About the Corporate Social Responsibility (CSR)</td>
<td></td>
</tr>
<tr>
<td>Sahar Mansour</td>
<td></td>
</tr>
<tr>
<td>Enhancing Work Engagement Towards Performance Improvement</td>
<td>214</td>
</tr>
<tr>
<td>Chris W.L. Chu, Reuben Mondejar, Akira Kamoshida, and Zahir Ahamed</td>
<td></td>
</tr>
<tr>
<td>Knowledge Management and Triangulation Logic in the Foresight</td>
<td>228</td>
</tr>
<tr>
<td>Research and Analyses in Business Process Management</td>
<td></td>
</tr>
<tr>
<td>Kaivo-oja Jari and Lauraeus Theresa</td>
<td></td>
</tr>
</tbody>
</table>
Corporate Knowledge Management, Foresight Tools, Primary Economically Affecting Disruptive Technologies, Corporate Technological Foresight Challenges 2008–2016, and the Most Important Technology Trends for Year 2017 .................................................. 239
   Kaivo-oja Jari and Lauraeus Theresa

Non Profit Institutions IT Governance: Private High Education Institutions in Bogota Case ................................................................. 254
   Yasser de Jesús Muriel Perea, Flor Nancy Díaz-Piraquive, Rubén González Crespo, and Ivahnhe Rozo Rojas

Information Systems Research

   Yuri Zelenkov

Study on Network Online Monitoring Based on Information Integrated Decision System ............................................................. 286
   Fan Yang and Zhenghong Dong

Marine Geochemical Information Management Strategies and Semantic Mediation ................................................................. 295
   Tenglong Hong, Xiaohong Wang, Jianliang Xu, Shijuan Yan, and Chengfei Hou

Implementation of a Text Analysis Tool: Exploring Requirements, Success Factors and Model Fit ................................................. 307
   Giorgio Ghezzi, Stephan Schlögl, and Reinhard Bernsteiner

Value Chain and Supply Chain

A Workflow-Driven Web Inventory Management System for Reprocessing Businesses ................................................................. 321
   Huanmei Wu, Jian Zhang, Sunanda Mukherjee, and Miaolei Deng

Towards Information Governance of Data Value Chains: Balancing the Value and Risks of Data Within a Financial Services Company .......... 336
   Haifangming Yu and Jonathan Foster

A Dempster Shafer Theory and Fuzzy-Based Integrated Framework for Supply Chain Risk Assessment ............................................. 347
   Yancheng Shi, Zhenjiang Zhang, and Kun Wang
## Knowledge Re-presentation and Reasoning

- **A Minimal Temporal Logic with Multiple Fuzzy Truth-Values**
  - Xinyu Li, Xudong Luo, and Jinsheng Chen
  - Page 365

- **Modified Similarity Algorithm for Collaborative Filtering**
  - Kaili Shen, Yun Liu, and Zhenjiang Zhang
  - Page 378

- **Healthcare-Related Data Integration Framework and Knowledge Reasoning Process**
  - Hong Qing Yu, Xia Zhao, Zhikun Deng, and Feng Dong
  - Page 386

## Data Mining and Intelligent Science

- **Algorithms for Attribute Selection and Knowledge Discovery**
  - Jorge Enrique Rodriguez R., Victor Hugo Medina García, and Lina María Medina Estrada
  - Page 399

- **P-IRON for Privacy Preservation in Data Mining**
  - G. Arumugam and V. Jane Varamani Sulekha
  - Page 410

- **Education Intelligence Should Be the Breakthrough in Intelligence Science**
  - Chuan Zhao
  - Page 424

- **An Improved Method for Chinese Company Name and Abbreviation Recognition**
  - Lei Meng, Zhi-Hao Wei, Tian-Yi Hu, Qian Cheng, Yu Zhu, and Xiao-Tao Wei
  - Page 435

## Big Data Management

- **A Big Data Application of Machine Learning-Based Framework to Identify Type 2 Diabetes Through Electronic Health Records**
  - Tao Zheng and Ya Zhang
  - Page 451

- **A Case Study on API-Centric Big Data Architecture**
  - Aravind Kumaresan, Dario Liberona, and R.K. Gnanamurthy
  - Page 459

- **Survey on Big Data Security Framework**
  - M. Thangaraj and S. Balamurugan
  - Page 470

- **Towards Integrated Model of Big Data (BD), Business Intelligence (BI) and Knowledge Management (KM)**
  - Souad Kamoun-Chouk, Hilary Berger, and Bing Hwie Sie
  - Page 482

- **A Review of Resource Scheduling in Large-Scale Server Cluster**
  - Libo He, Zhenping Qiang, Wei Zhou, and Shaowen Yao
  - Page 494
Internet of Things and Network

Mobile Application for the Reduction of Waiting Times Through IoT (Prototype) .......................................................... 509
Pedro Santiago Sierra, Jeyson Bolivar Siculaba, and Giovanny Mauricio Tarazona

Design Science and ThinkLets as a Holistic Approach to Design IoT/IoS Systems ......................................................... 520
Reinhard Bernsteiner and Stephan Schlögl

Research on DV-HOP Algorithm for Wireless Sensor Networks ............... 534
Xiao-Li Cui, Wen-Bai Chen, and Cui Hao

Dynamic Charging Planning for Indoor WRSN Environment by using Self-propelled Vehicle ........................................... 547
Wei-Che Chien, Hsin-Hung Cho, Chin Feng Lai, Timothy K. Shih, and Han-Chieh Chao

Author Index ......................................................... 561
Knowledge Management in Organizations
12th International Conference, KMO 2017, Beijing, China, August 21-24, 2017, Proceedings
Uden, L.; Lu, W.; Ting, I.-H. (Eds.)
2017, XIII, 562 p. 176 illus., Softcover
ISBN: 978-3-319-62697-0