

2011 5th IEEE International Conference on Digital Ecosystems and Technologies

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Track A - Ecosystems Inspired Computing and Theoretical Foundations

Track Chairs: Youakim Badr National Institute of Applied Sciences (INSA-Lyon), France
 Jaeseung Jeong Department Of Bio and Brain Engineering KAIST, Korea

| Paper ID | Paper Title | Author/s |
|----------------------------------|---|--|
| <u>TD-001341</u> | A User Study on Public Health Events Detected within the Medical Ecosystem | Avare Stewart, Eelco Herder, Matthew Smith, Wolfgang Nejdl |
| <u>TD-001625</u> | Adaptive Back-stepping Position Control System with Fuzzy Neural Networks Algorithm | Han Me Kim, Kyoung Taik Park and Seock Joon Kim |
| <u>TD-001243</u> | Global Path Planning Using Improved Ant Colony Optimization Algorithm through Bilateral Cooperative Exploration | Joon-Woo Lee, Dong-Hyun Lee and Ju-Jang Lee |
| <u>TD-000743</u> | An Ecological consideration for environmental infrastructure evaluation to achieve urban sustainability | Jongseok Shin, Sangeun Lee and Heekyung Park |
| <u>TD-000671</u> | A Performance Driven Incentive Based Approach for Successful Service Delivery | Olivia Fachrunnisa |

Track B - Digital Ecosystems Architecture and Semantics

Track Chairs: Ernesto Damiani University of Milan, Italy
Gil-Soo Jang School of Electrical Engineering, College of Engineering,
Korea University

| Paper ID | Paper Title | Author/s |
|---------------------------|---|---|
| TD-001931 | A Reliable Password-based User Authentication Scheme for Web-based Human Genome Database System | Wei-Hsin Chen, Zhen-Yu Wu, Feipei Lai, Yin-Hsiu Chien and Wu-Liang Hwu |
| TD-000871 | A Semantic Description Language for RESTful Data Services to Combat Semaphobia | Markus Lanthaler and Christian Gutl |
| TD-000912 | Autonomous Agents in Organized Localities Regulated by Institutions | Michaela Huhn, Jorg P. Muller, Jana Gormer, Gianina Homoceanu, Nguyen-Thinh Le, Lukas Martin, Christopher Mumme, Christian Schulz, Niels Pinkwart, and Christian Muller-Schloer |
| TD-001010 | Component Level Risk Assessment in Grids: A Probabilistic Risk Model and Experimentation | Asif Sangrasi and Karim Djemame |
| TD-001054 | Is the Cloud the Answer to Scalability of Ecologies? Using GAE to enable horizontal scalability | Radhika Ramasahayam and Ralph Deters |
| TD-001404 | Overview of Cognitive Visualisation | Mahsa Moorianian, Tharam Dillon and Elizabeth Chang |

Track C – Domain Specific Digital Ecosystems

Track Chairs: Tobias Blanke King's College London, UK
Suk-Gwon Chang Hanyang University, Korea

| Paper ID | Paper Title | Author/s |
|----------------------------------|--|--|
| <u>TD-001324</u> | Towards a Translational Medical Research Ecosystem | Matthew Smith, Marian Harbach, Susanne Mertins, Andrew Lewis and Lyn Griffiths |
| <u>TD-002658</u> | Impact of IT Usage on Organizational Culture: Evidence from China | Liu Jie, Wu Fuming and Wang Wei |
| <u>TD-001117</u> | Mobile Social Business Ecosystems with Revenue-Generating Emotional Engineering: Lessons from Mobile Business in Japan | Toshihiko Yamakami |
| <u>TD-001842</u> | Community-Driven Ontology Evolution Based on Lightweight Social Networking In Oil and Gas Domain | Ahmed Aseeri and Pornpit Wongthongtham |
| <u>TD-001119</u> | Visualizing Reciprocity to Motivate Participation in an Online Community | Kadhambari Raghavun and Julita Vassileva |
| <u>TD-001358</u> | A Sustainable ICT Education Ontology | Kum Leng Chin and Elizabeth Chang |

Track D - Digital Ecosystem Infrastructure, Research and Development

Track Chairs: Elizabeth Chang DEBII, Curtin University, Australia
 Hyun Myung Dept. of Civil and Environmental Engineering, KAIST, Korea

| Paper ID | Paper Title | Author/s |
|---------------------------|---|---|
| TD-002077 | Resilient Service Ecologies for IPTV: Using RESTful Services to enable Resilience | Daniel Merino and Ralph Deters |
| TD-001542 | A Community Based Authentication and Authorisation Mechanism for Digital Ecosystem | Ilung Pranata, Geoff Skinner and Rukshan Athauda |
| TD-001638 | Email Triage with Mind Meshes | Marian Harbach, Thomas Muders, Ralf Groeper and Matthew Smith |
| TD-001955 | Dynamic Composition and Reconfiguration of Internet-scale Control Systems | Evangelos Pournaras, Mark Yao and Ron Ambrosio |
| TD-001900 | Emulation of Social Network Ecosystems: Dynamic Modeling and Visualisation on the Example of the Indian Agropedia Project | Thomas Kurz, Christoph Rucker and Thomas J. Heistracher |
| TD-002224 | Real-time Classification in Tracking Human using Segmental Feature and Particle filter | Dong-Kyu Ryu, Masanori Sugisaka and Ju-Jang Lee |
| TD-001038 | Evaluation of Wireless Home Automation Technologies | A. J. Dinusha Rathnayaka, Vidyasagar M. Potdar and Samitha J. Kuruppu |
| TD-002027 | Power Assistance System of Working Habiliments Type for Painting Worker in Ship Building | Kyoung Taik Park, Doo Hyeong Kim, Chang Don Lee and Han Me Kim |
| TD-001484 | On the Implementation of a DBE to Improve SME Collaboration | Francesc Estanyol and Miguel Lurgi |
| TD-001531 | Vision-Based Direction Determination of a Mobile Robot in Indoor Environment | Yeoun Jae Kim, Minho Park, Dong-Hyun Lee, Joon-Yong Lee and Ju-Jang Lee |
| TD-002430 | Design and Complexity of RESTful Web Applications: Optimisation of Simple Stateless Scenarios | Amir R Razavi, Abbas Strømmen-Bakhtiar, Sam Hooti and Paul Krause |

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| TD-001769 | Double Burst Error Correction Method: Case of Interference Incidents during Data Transmission in Wired Channels | Nikolaos G. Bardis, Nikolaos Doukas and Oleksandr P. Markovskiy |
| TD-002033 | Range-based Indoor User Localization Using Reflected Signal Path Model | Jongdae Jung and Hyun Myung |
| TD-001555 | Towards a Places and Spaces based city-wide mobile learning through multi-agent support | A.Basit Khan, Mihhail Matskin and Chiara Rossitto |
| TD-001355 | Optimization based Simulation Model Development: Solving Robustness Issues | Justin Debuse and Shah Jahan Miah |
| TD-002360 | Type-2 Fuzzy PD Controller Tuning using Quantum-Inspired Evolutionary Algorithm | Seung-Yoon Cho, Joon-Woo Lee and Ju-Jang Lee |
| TD-001437 | Fast Human Detection Using Gaussian Particle Swarm Optimization | Sung-Tae An, Jeong-Jung Kim, Joon-Woo Lee and Ju-Jang Lee |
| TD-001668 | Structural Inspection Robot for Displacement Measurement | Haemin Jeon, Yousuk Bang and Hyun Myung |
| TD-002081 | Interval Type-2 Fuzzy Logic Controllers for Flocking Behavior | Seung-Mok Lee and Hyun Myung |
| TD-002300 | Classifying Eye and Head Movement Artifacts in EEG Signals | Neisha A. Chadwick, David A. McMeekin and Tele Tan |
| TD-002441 | Towards an Unified Architecture for Smart Home and Ambient Assisted Living Solutions: A focus on elderly people | Christian Fabbriatore, Markus Zucker, Sebastian Ziganki and Achim P. Karduck |

Track E – Digital Solutions

Track Chairs: Rainer Unland University of Duisburg-Essen, Germany
Myung Geun Chun Chungbuk National University, Korea

| Paper ID | Paper Title | Author/s |
|---------------------------|---|---|
| TD-001214 | Visual Access Control for Research Ecosystems | Marian Harbach and Matthew Smith |
| TD-001168 | UbiWall as a Reconfigurable Ecosystem of Smart Blocks | Hyunseok Kim, Seongteak Jang, Dongjun Suh and Seongju Chang |
| TD-001312 | Secret Program Execution in the Cloud applying Homomorphic Encryption | Michael Brenner, Jan Wiebelitz, Gabriele von Voigt and Matthew Smith |
| TD-002045 | User Friendly Smart Home Infrastructure: BeeHouse | Ali Mohammed A. H. Al-Kuwari, Cesar Ortega-Sanchez, Atif Sharif and Vidyasagar Potdar |
| TD-001986 | Energy Conservation in a Smart Home | Dhiren Tejani, Ali Mohammed A. H. Al-Kuwari and Vidyasagar Potdar |

Workshop A - eResearch

Workshop Chair: Mark Hedges King's College London, UK

| Paper ID | Paper Title | Author/s |
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| TD-001891 | Social Media in China: Rising Weibo in Government | Yinbin Liu and Yixia Zhou |
| TD-001480 | TextGrid Provenance Tools for Digital Humanities Ecosystems | Marc W. Küster, Christoph Ludwig, Yahya Al-Hajj and Thomas Selig |
| TD-001649 | Managing Large and Small Files in a Distributed System | Yutaka Kawai, Takashi Sasaki, Yoshimi Iida, Yoshiyuki Watase, Adil Hasan and Francesca Di Lodovico |

Workshop B - Ecologically-inspired digital ecosystems

Workshop Chairs: Francese Estanyol Casals University of Edinburgh, U.K.
 Miguel Lurgi University of Edinburgh, U.K.

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| <u>TD-001858</u> | A Cognitively Meaningful Digital Ecosystem Approach: Implications for Mobile Digital Ecosystem | Toshihiko Yamakami |
| <u>TD-000970</u> | An Obstacle Signaling System For The Blind | David J. Calder |

Workshop C – The Changing Business Environment: How to Collaborate and Compete in a Digital Business Ecosystem

Workshop Chairs: Amir R Razavi University of Surrey, U.K.
Abbas Strommen-Bakhtiar University of Nordland, Norway

| Paper ID | Paper Title | Author/s |
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| TD-001873 | Security Challenges and Solutions in Cloud Computing | Eystein Mathisen |
| TD-002154 | Real-time Human Response Network with its Implications for Mobile Business Model Engineering | Toshihiko Yamakami |