Contents

InSuEdu 2012 — First International Symposium on Innovation and Sustainability in Education

**Position Paper**

Innovation and Sustainability in Education ........................................... 3
    *Antonio Cerone and Donatella Persico*

**Regular Papers**

Inquiry-Based Science Education in Secondary School Informatics – Challenges and Rewards ......................................................... 17
    *Nikolina Nikolova and Eliza Stefanova*

Innovation and Sustainability in Higher Education: Lessons Learnt from the Case Study of an Online University .................................. 35
    *Donatella Persico, Stefania Manca, and Francesca Pozzi*

Mobile Augmented Reality with Audio: Supporting Fieldwork of Cultural Sciences Students in Florence ........................................... 53
    *Stefaan Ternier, Fred de Vries, Dirk Börner, and Marcus Specht*

Mathematical Literacy as a Condition for Sustainable Development .... 64
    *Luís Soares Barbosa and Maria Helena Martinho*

Learning CSCW Through Fairytales: A Practical Model ..................... 78
    *Nicole Bittel and Marco Bettoni*

The Role of Peer Review in Supporting the Sustainability of Technology-Enhanced Learning Environments ................................... 89
    *Pantelis M. Papadopoulos and Antonio Cerone*

Creative Classrooms: A Systemic Approach for Mainstreaming ICT-Enabled Innovation for Learning in Europe ............................ 104
    *Stefania Bocconi, Panagiotis Kampylis, and Yves Punie*

FLOSS in Technology-Enhanced Learning ........................................ 121
    *Sara Fernandes, Antonio Cerone, Luís Soares Barbosa, and Pantelis M. Papadopoulos*
Short Papers

A Preliminary Analysis of Learning Awareness in FLOSS Projects ........... 133
Sara Fernandes, Antonio Cerone, and Luís Soares Barbosa

Concept and Experiences on Using a Wiki-Based System for Software-Related Seminar Papers ......................... 140
Dominik Franke and Stefan Kowalewski

MoKMaSD 2012 — First International Symposium on Modelling and Knowledge Management for Sustainable Development

Position Paper

Modelling and Knowledge Management for Sustainable Development ........ 149
Antonio Cerone and Alexeis Garcia-Perez

Keynote Paper

Algorithmic Systems Ecology: Experiments on Multiple Interaction Types and Patches .................................................. 154
Ozan Kahramanogullari, James F. Lynch, and Corrado Priami

Regular Paper

Modelling Population Dynamics Using Grid Systems .......................... 172
Roberto Barbuti, Antonio Cerone, Andrea Maggio-lo-Schettini, Paolo Milazzo, and Suryana Setiawan

Short Papers

Transition to Sustainability: Italian Scenarios Towards a Low-Carbon Economy ......................................................... 190
Giovanni Bernardo and Simone D’Alessandro

Models of Knowledge Transfer for Sustainable Development ................ 198
Ettore Bolisani, Francesca Scramoncin, and Siraj Ahmed Shaikh

A Framework for Translating Legal Knowledge into Administrative Processes: Dynamic Adaption of Business Processes ........... 204
Yiwei Gong and Marijn Janssen
OpenCert 2012 — 6th International Workshop on Foundations and Techniques for Open Source Software Certification

Regular Papers

Model-Based Tool Qualification: The Roadmap of Eclipse Towards Tool Qualification
Oscar Slotosch

Secure Migration of Legacy Applications to the Web
Zisis Karampaglis, Anakreon Mentis, Fotios Rafailidis, Paschalis Tsolakidis, and Apostolos Ampatzoglou

A Web Portal for the Certification of Open Source Software
Pedro Martins, João P. Fernandes, and João Saraiva

Open Source Software Process: A Potential Catalyst for Major Changes in Electronic Health Record Systems
Mirjan Merruko, Eleni Berki, and Pirkko Nykänen

Short Papers

Pantelis M. Papadopoulos, Ioannis G. Stamelos, and Antonio Cerone

Guidelines for the Application of Data Envelopment Analysis to Assess Evolving Software
Alexander Chatzigeorgiou

A Certification Process for Android Applications
Harsha K. Kalutarage, Padmanabhan Krishnan, and Siraj Ahmed Shaikh

Author Index

305