# IEEE 7th International Conference on Research Challenges in Information Science

(RCIS 2013)

**Paris, France 29 – 31 May 2013** 



**IEEE Catalog Number:** 

Number: CFP1340D-POD 978-1-4673-2912-5

ISBN:

## Table of contents

Jacques Simonin and Sébastien Bigaret

## **Keynotes** Requirements Models at Design- and Runtime John Mylopoulos Mediating Between Modeled and Observed Behavior: The Quest for the "Right" Process Wil Van Der Aalst Internet of Services and Internet of Things: Challenges for Information Systems Engineering and .... Operation Klaus Pohl **Session 1: Requirements Engineering (1)** Towards a Proposal to Capture Usability Requirements through Guidelines Yeshica Isela Ormeño, Jose Ignacio Panach Navarrete, Nelly Condori Fernández and Oscar Pastor López Collaborative Creativity in Requirements Engineering: Analysis and Practical Advice Martin Mahaux, Olly Gotel, Alistair Mavin, Lemai Nguyen, Luisa Mich and Klaus Schmid Handling Requirements Dependencies in Agile Projects: A Focus Group with Agile Software **Development Practitioners** Aias Martakis and Maya Daneva Goal Formalization and Classification for Requirements Engineering, Fifteen Years Later Nicolas Prat **Session 2: Models & Model Driven Engineering** Pattern Based Methodology for UML profiles Evolution Management ..... Fadoi Lakhal, Hubert Dubois and Dominique Rieu Supporting Organisational Evolution by Means of Model-Driven Reengineering Frameworks Marcela Ruiz, Sergio España, Oscar Pastor López and Arturo González M2Flex: a Process Metamodel for Flexibility at Runtime Eric Ceret, Sophie Dupuy-Chessa and Gaelle Calvary Model Driven Development of a Generic Data Control Engine: an Industrial Experience Olivier Rosec Modelling Temporality and Subjectivity in ConML ..... Cesar Gonzalez-Perez Session 3: Business Intelligence & Decision Support QUASL: A Framework for Question Answering and its Application to Business Intelligence Nicolas Kuchmann-Beauger, Falk Brauer and Marie-Aude Aufaure Adapting to Uncertain and Evolving Enterprise Requirements: The case of business-driven business intelligence Eric Yu, Alexei Lapouchnian and Stephanie Deng Business Alignment-Based Data Warehousing Physical Design Driven by Models

### Session 4: Information Systems & Services (1)

Mohamad Kassab

A Multi-Agent System for Learner Assessment in Serious Games: Application to Learning Processes in Crisis ... M'Hammed Ali Oulhaci, Erwan Tranvouez, Sébastien Fournier and Bernard Espinasse Towards Constraint-Informed Information Systems ..... Irene Rodrigues, Nuno Matos, Salvador Abreu, Rebecca Deneckere and Daniel Diaz Adapting WS-BPEL Scenario Execution Using Collaborative Filtering Techniques ..... Margaris Dionisis, Panagiotis Georgiadis and Costas Vassilakis **Session 5: Ontologies and Data** Be Careful When Designing Semantic Databases: Data and Concepts Redundancy Chedlia Chakroun, Ladjel Bellatreche, Yamine Ait Ameur, Nabila Berkani and Stéphane Jean An Ontological Foundation for Conceptual Modeling Datatypes based on Semantic Reference Spaces.... Antognoni Albuquerque and Giancarlo Guizzardi Automatic Generation of Ontology from Data Models: A Practical Evaluation of Existing Approaches ..... Bouchra El Idrissi, Salah Baïna and Karim Baïna Session 6: User centered approaches (1) Monitoring User-System Interactions through Graph-Based Intrinsic Dynamics Analysis ... Sébastien Heymann and Bénédicte Le Grand Re-Engineering Graphical User Interfaces from their Resource Files with UsiResourcer Oscar Sanchez, Jean Vanderdonckt and Jesus Garcia Molina Formalizing an Empirical Model: a Way to Enhance the Communication Between Users and Designers Pierre-Emmanuel Arduin, Michel Grundstein, Elsa Negre and Camille Rosenthal-Sabroux Integrating Accessibility as a Quality Property in Web Developments Marine Reichling and Samira Si-Said Cherfi Session 7: Business Processes (1) V-BPMI: a Variability-oriented Framework for Web-based Business Processes Modeling and ... Implementation Renaud Angles, Philippe Ramadour, Corine Cauvet and Sophie Rodier A Taxonomy for Assessing Security in Business Process Modelling Naved Ahmed and Raimundas Matulevicius Bi-criteria Strategies for Business Processes Scheduling in Cloud Environments with Fairness Metrics Kahina Bessai, Samir Youcef, Ammar Oulamara and Claude Godart Exploring the Alloy Operational Semantics for Case Management Process Modeling Irina Rychkova Session 8: Requirements Engineering (2) A Requirements-Based Approach for Representing Micro-business Patterns R.J. Macasaet, Manuel Noquera, Maria Luisa Rodriquez, Jose Luis Garrido, Sam Supakkul and Lawrence Chung Transforming Creative Requirements into Conceptual Models Fernando Wanderley, Denis Silveira, João Araujo and Ana Moreira An Integrated Approach of AHP and NFRs Framework .....

## **Session 9: ICT Acceptance** Responsible Research and Innovation: Critical reflection into the potential social consequences of ICT Grace Eden, Marina Jirotka and Bernd Stahl Determining Factors in ICT Adoption by MSME's in Agriculture Clusters ...... Gianluigi Viscusi, Federico Cabitza, Andrea Maurino and Fabio Stella Factors fostering IT Acceptance by nurses in Morocco Az-Eddine Bennani and Rachid Oumlil Session 10: User centered approaches (2) A Computational Framework for Context-aware Adaptation of User Interfaces Vivian Genaro Motti and Jean Vanderdonckt A New Event Dispatch Strategy to Eliminate Dispatch "Glue" Anthony Allevato and Stephen Edwards Session 11: Information Search & Discovery Supervised Intentional Process Models Discovery Using Hidden Markov Models ..... Ghazaleh Khodabandelou, Charlotte Hug, Rebecca Deneckère and Camille Salinesi Towards a Hybrid Algorithm for Extracting Maximal Frequent Conceptual Links in Social Networks Erick Stattner and Martine Collard Extensible Document-Based Model Web Engineering .... Jean-Marc Lecarpentier, Romain Brixtel, Hervé Le Crosnier and Cyril Bazin Cold-Start Recommender System Problem Within a Multidimensional Data Warehouse ..... Elsa Negre, Franck Ravat, Olivier Teste and Ronan Tournier Session 12: Information Systems & Services (2) Monitoring Mobile Cyber-Physical Systems by Means of a Knowledge Discovery Cycle Tino Noack and Ingo Schmitt Using Goals and Customizable Services to Improve Adaptability of Process-based Service Compositions Joseph Gillain, Stéphane Faulkner, Ivan Jureta and Monique Snoeck Towards Automated Analysis of Fads and Trends in Information Systems Research - Concept, Implementation and Exemplary Application in the Context of Business Process Management Research Constantin Houy, Khulan Sainbuyan, Peter Fettke and Peter Loos Service Level Agreements in Municipal IT Dependability Management Kim Weyns and Martin Höst Session 13: Web & Networks Leveraging Crowdsourced Knowledge for Web Data Clouds Empowerment ...... Silvana Castano, Lorenzo Genta and Stefano Montanelli Centrality-based Peer Rewiring in Semantic Overlay Networks ..... Yulian Yang, Sylvie Calabretto and Lionel Brunie Session 14: Business Processes (2) Autonomic Protocol-based Coordination in Dynamic Inter-Organizational Workflow

Wassim Bouaziz and Eric Andonoff

Adaptation Patterns for Service Based Inter-Organizational Workflows Saida Boukhedouma, Mourad Oussalah, Zaia Alimazighi and Dalila Tamzalit Using Model Checking to Control the Structural Errors in BPMN Models ..... Oussama Mohammed Kherbouche, Adeel Ahmad and Henri Basson **Doctoral Consortium** DC Session 1: Methods The Efficiency of Strategic Alignment - Determining the Level of Efficiency of the Alignment of Information Systems with Corporate Strategy Laure Jeannerot Semi-automatic Improvement of Software Development Methods ..... Marko Janković A Process Framework For Managing Implicit Requirements Using Analogy-Based Reasoning Onyeka Emebo **DC Session 2: Process Handling** Event Processing with Dynamically Changing Focus ..... Marc Schaaf Contextual Recommendations using Intention Mining on Process Traces Ghazaleh Khodabandelou Bridging the Gap between Social Software and Business Process Management: A Research Agenda ..... Matheus Hauder DC Session 3: Collaboration and learning systems Accessible Chats for Computer Supported Collaborative Learning Environments in Mobile Devices ..... Rocío Calvo Computer Mediated Collaboration among the Academic Research Community in Developing Countries: A Case Study of Kenya Petronilla Muriithi **Posters session** Business Analytics in Innovation and Product Lifecycle Management ..... Clotilde Rohleder, Indra Kusumah, Jing Lin and Gülru Özkan Constructing Method Families Based on the Variability Analysis .... Elena Kornyshova, Jolita Ralyté and Rébecca Deneckère An Overview of a SysML Extension for Goal-oriented NFR Modelling ...... Christophe Gnaho, Farida Semmak and Régine Laleau Empirical Evaluation of UML-based Model-Driven Techniques ..... Maurizio Leotta, Filippo Ricca, Marco Torchiano and Gianna Reggio Towards Predictive Cost Models for Cloud Ecosystems ..... Karsten Molka and James Byrne Towards an Ontology-based Scientific Knowledge Infrastructure for Information Systems Research ..... Constantin Houy, Sven Kaiser, Peter Fettke and Peter Loos Toward Understanding Analogical Mapping and Ideological Cataloguing in the Brain ..... Newton Howard

A Case Study for Understanding the Organization of Distributed Problem-Solving within the Mozilla's Community

Héla Masmoudi and Imed Boughzala

#### **Demonstrations session**

Stimulus-Response Tests: An Applied Demonstration Carolyn Matheus, Justin Svegliato

TESSI: A Web Service Testing Tool .....

Dessislava Petrova-Antonova, Sylvia Ilieva and Vera Stoyanova

A Massive Generation of IR Runs .....

Jonathan Louedec and Josiane Mothe

TempoSpring: a New Immersive Hands-free Prototype for Visualizing Social Networks *Nicolas Greffard, Fabien Picarougne and Pascale Kuntz* 

Implementation of Prototype for Interoperability between BIM and GIS ""

Jung-Rae Hwang, Changhee Hong and Hyun-Sang Choi

CombiS-BP Editor: Combining Declarative and Imperative Languages in BP Modelling ..... Luisa Parody, María Teresa Gómez López, Rafael M. Gasca and Angel Jesus Varela Vaca