# **2014 IEEE Eighth International Conference on Research Challenges in Information Science**

# (RCIS 2014)

Marrakech, Morocco 28-30 May 2014



IEEE Catalog Number: ISBN:

CFP1440D-POD 978-1-4799-2394-6

# Table of contents

#### Session 1: Social Network Analysis – 1

Overcoming challenges in Global Software Development: The role of Brokers A Christina Manteli and Bart van den Hooff and Hans van Vliet and Wilco van Duinkerken

An energy-based model to optimize cluster visualization ₩ €

Taoufiq Dkaki and Josiane Mothe

OLAP of the tweets: From modeling to exploitation #GF

Maha Ben Kraiem and Jamel Feki and Kais Khrouf and Franck Ravat and Olivier Teste

# Session 2: Information System Engineering – 1

Analysing the concept of quality in model-driven engineering literature: a systematic review **#F** Fáber Danilo Giraldo Velásquez and Sergio España and Oscar Pastor

Organizational and Customer related Challenges of Software Testing: An Empirical Study in 11 Software Companies A H

Frank Philip Seth and Ossi Taipale and Kari Smolander

A preliminary analysis of theorizing effort in ERP research A I

Saïd Assar and Redouane El Amrani

# Session 3: Social Network Analysis - 2

On the use of intrinsic time scale for dynamic community detection and visualization in social networks A F Alice Albano and Jean-Loup Guillaume and Benedicte Le Grand

Collaborative management of applications in enterprise social networks A G

Ourania Hatzi and Giannis Meletakis and Mara Nikolaidou and Dimosthenis Anagnostopoulos

Mining bipartite graphs to improve semantic pedophile activity detection A F

Raphael Fournier and Maximilien Danisch

### Session 4: Requirements Engineering - 1

Taking Goal Models Downstream: A Systematic Roadmap 4 1

Jennifer Horkoff and Tong Li and Feng-Lin Li and João Pimentel and Mattia Salnitri and Evellin Cardoso and Paolo Giorgini and John Mylopoulos

Exploring Alternative Designs of Sociotechnical Systems #

Fatma Başak Aydemir and Fabiano Dalpiaz and Paolo Giorgini and John Mylopoulos

Consideration in Software-mediated Social Interaction # €J

Raian Ali and Nan Jiang and Sheridan Jeary and Keith Phalp

### **Session 5: Business Processes**

Navigating in Process Model Repositories and Enterprise Process Information A FG€

Markus Hipp and Bela Mutschler and Bernd Michelberger and Manfred Reichert

A Novel Approach to Process Mining : Intentional Process Models Discovery AFHG

Ghazaleh Khodabandelou and Charlotte Hug and Camille Salinesi

Towards the construction of Quality-aware Web Warehouses with BPMN 20 Business Processes AFI I Andrea Delgado and Adriana Marotta and Laura González

Business models alignment with reuse approach Ä f €

Maryam Radgui and Rajaa Saidi and Salma Mouline

#### Session 6: Risk Management

Overview of e-mail SPAM Elimination and its Efficiency

- Formal approach for managing firewall misconfigurations AFI Î Amina Saâdaoui and Nihel Ben Youssef Ben Souayeh and Adel Bouhoula
- A Collaborative Risk Management Framework for Enterprise Architecture
- Diana Marosin and Sergio Sousa and Dirk van der Linden

### Session 7: Social Network Analysis – 3

User-Annotated Microtext Data for Modeling and Analyzing Users' Sociolinguistic Characteristics and Age Grading MrT H

Nathaniel Moseley and Cecilia Ovesdotter Alm and Manjeet Rege

- From Tweet to Graph: Social Network Analysis for Semantic Information Extraction AFI J Rocío Abascal Mena and Rose Lema and Florence Sèdes
- Taxonomy-based Job Recommender Systems On Facebook and LinkedIn #FJJ Mamadou Diaby and Emmanuel Viennet

### **Session 8: Human Computer Interaction**

User Interface Patterns for Rich Applications in the Context of Cultural Heritage Data Patricia Martin-Rodilla and José Ignacio Panach and Oscar Pastor Towards an Evaluation of Graphical User Interfaces based on Metrics Mathieu Zen and Jean Vanderdonckt Evaluating Rogue User Testing in Industry: an experience report Sebastian Bauersfeld and Antonio de Rojas and Tanja EJ Vos

#### Session 9: Information System Engineering - 2

A Survey on Project Factors that Motivate Finnish Software Engineers AGH Ayse Tosun Misirli and June Verner and Jouni Markkula and Markku Oivo Insider Action Design Research - A Multi-Methodological Information Systems Research Approach AGH Radhouane Ben Neji Jrad and M Daud Ahmed and David Sundaram Standards compliance helps value creation in agile projects AGH Zornitza Bakalova and Maya Daneva and Tuan Nguen

#### Session 10: Requirements Engineering - 2

Analyzing the Evolution of Software Development: From Creative Chaos to Software Ecosystems A I Mahsa Hasani Sadi and Eric Yu

QualiHM: A Requirement Engineering Toolkit for Efficient User Interface Design AG Í Mohamed Boukhebouze and Ravi Ramdoyal and Dimitri Diakodimitris and Ugo Sangiorgi and Mathieu Zen and Jean Vanderdonckt

- A tool to improve requirements review in collaborative software development platforms AG Î Zeina Azmeh and Isabelle Mirbel and Laila El Jiani
- Integration of non-functional requirements in a service-oriented and model-driven approach AGG Abdelhadi Bouain and Abdelaziz El Fazziki and Mohammed Sadgal

### Session 11: User-Centered Approaches - 1

Privacy Conscious Web Apps Composition Ä €€

Aurélien Faravelon and Eric Cérer

A user-centric vision of service-oriented Pervasive Information Systems AFG

Salma Najar and Manuele Kirsch Pinheiro and Bénédicte Le Grand and Carine Souveyet

Engaging a Class of 2200 Digital Natives: A Blended Approach Add Andrew Eberhard and Khushbu Tilvawala and Gabrielle Peko and David Sundaram

# Session 12: Services - 1

Adapting Service Interfaces when Business Processes Evolve **₩HF** Vladimir Kudelas and Marek Polák and Martin Nečaský and Irena Holubova An integration architecture framework for e-genomics services **₩H** H David Roldán Martínez and Óscar Pastor López and Mercedes Fernández Assessing Open Source Communities' Health using Service Oriented Computing Concepts **₩H** € Marc Oriol and Oscar Franco-Bedoya and Xavier Franch and Jordi Marco

#### Session 13: Social Network Analysis - 4

Link Formation in a Telecommunication Network A Î Erick Stattner Dynamic Enrichment of Social Users' Interests A Î Manel Mezghani and Corinne Zayani and Ikram Amous and André Peninou and Florence Sedes

#### **Session 14: Information Search and Discovery**

Introduction of an outranking method in the Cloud Computing Research and Selection System based on the Skyline Algorithm for Information Retrieval Using Past Search Results Algorithm for Information Retrieval Using Past Search Results I Claudio Gutiérrez-Soto and Gilles Hubert

Toward Variability Management to Tailor High Dimensional Index Implementations AHUI Veit Koeppen and Martin Schäler and Reimar Schröter

#### Session 15: Information System Engineering - 3

FASMM: Fast and Accessible Software Migration Method A €H
Louis Forite and Charlotte Hug
Research Paradigms and Topics in Enterprise Engineering: Analysis of recent conferences and workshops A fl
Wolfgang A Molnar and Janne J Korhonen

The Four Pillars of Crowdsourcing: A Reference Model A G Mahmood Hosseini and Keith Phalp and Jacqui Taylor and Raian Ali

#### Session 16: Modeling and Design

An ISO/IEC 24744-Derived Modelling Language for Discourse Analysis A HJ Patricia Martin-Rodilla and Cesar Gonzalez-Perez

Heterogeneous models matching for consistency management # I J

Mahmoud El Hamlaoui and Sophie Ebersold and Adil Anwar and Bernard Coulette and Mahmoud Nassar On the Use of Graph Transformations for Model Composition Traceability A Î F

Youness Laghouaouta and Adil Anwar and Mahmoud Nassar and Jean-Michel Bruel

#### Session 17: User-Centered Approaches – 2

The Design of Adaptive Acquisition of Users Feedback: an Empirical Study ÄÄ Ï G Malik Almaliki and Cornelius Ncube and Raian Ali

A user centred approach to represent expert knowledge: A case study at STMicroelectronics A l l Manel Brichni and Sophie Dupuy-Chessa and Lilia Gzara and Corinne Jeannet

#### Session 18: Services – 2

Relational On Demand Data Management for IT-Services A JÎ

Andreas Lübcke and Martin Schäler and Veit Köppen and Gunter Saake

A Context Ontology for Service Provisioning and Consumption ₩ €

Oscar Cabrera and Xavier Franch and Jordi Marco

# **DC Session 1: Recommendation and Business Processes**

Hybrid System for Personalized Recommendations∰G€ Jihane Karim

A Roadmap for Upgrading Unupgradable Legacy Processes in Inter-Organizational Middleware Systems A G Radhouane Ben Neji Jrad

Intelligent Systems for Users' Automated Guidance A HG

Elena Kushnareva

Software Implementation Knowledge Management with Technical Debt and Network Analysis A H Johannes Holvitie

# **DC Session 2: Software Product Lines**

Towards a co-evolution model for software product lines based on Cladistics Anissa Benlarabi Á I H

Survey of Non-Functional Requirements Modeling and Verification of Software Product Lines All I J Fatima Zahra Hammani

Towards an Agile Feature Composition for a Large Scale Software Product Lines A Í Í Ikram Dehmouch

# Poster and Demo Session

How can imitation counterbalance innovation? An ABM Bass model for competing products Ä Î F Philippe Collard and Wilfried Segretier

Process behavior meta-modeling for the derivation of enactment engines Ä Î H Sana Damak Mallouli and Saïd Assar and Carine Souveyet

Robustness Against Data Availability Problems in Urban Energy Planning Support Software A Î Î Najd Ouhajjou and Wolfgang Loibl and Peter Palensky and Amin Anjomshoaa and Stefan Fenz and A Min Tjoa

A Computational Approach for Design Rationalization in Enterprise Architecture Î Ï Georgios Plataniotis and Sybren de Kinderen and Henderik A Proper

Integrating user's profile in the query model for Social Information Retrieval # Î J Chahrazed Bouhini and Mathias Géry and Christine Largeron