

Table of Contents

OnTheMove 2013 Keynotes

Streams, Semantics and the Real World.....	XVII
<i>Manfred Hauswirth</i>	
Empowering Process Participants – The Way to a truly Agile Business Process Management	XIX
<i>Herbert Kindermann</i>	
Long-Range Forecasting: Important Yet Almost Impossible.....	XX
<i>Hermann Maurer</i>	
The Model-Driven (R)evolution.....	XXI
<i>Richard Mark Soley</i>	
Overview of European Commission R&D activities on Net Innovation	XXIII
<i>Ainhoa Uriarte</i>	

On The Move Academy (OTMA) 2013

The 10th OnTheMove Academy Chairs' message.....	1
<i>Peter Spyns and Anja Metzner</i>	
On the Likelihood of an Equivalence	2
<i>Giovanni Bartolomeo, Stefano Salsano, and Hugh Glaser</i>	
Development of Information Systems for Transparent Corporate Sustainability Using Data-Driven Technologies.....	12
<i>Lisa Madlberger</i>	
Cooperative and Fast-Learning Information Extraction from Business Documents for Document Archiving	22
<i>Daniel Esser</i>	
Sustainable Supply Chain Management: Improved Prioritization of Auditing Social Factors, Leveraging Up-to-Date Information Technology.....	32
<i>Andreas Thöni</i>	

Industry Case Studies Program 2013

Industry Case Studies Program 2013 PC Co-Chairs Message.....	34
<i>Hervé Panetto</i>	

Platforms and Frameworks

A Cooperative Social Platform to Elevate Cooperation to the Next Level – The Case of a Hotel Chain (Short Paper)	35
<i>Emmanuel Kaldis, Liping Zhao, and Robert Snowdon</i>	
Applying BPM 2.0 in BPM Implementation Projects (Short Paper)	42
<i>Matthias Kurz, Manfred Scherer, Angelika Pössl, Jörg Purucker, and Albert Fleischmann</i>	
Information Centric Engineering (ICE) Frameworks for Advanced Manufacturing Enterprises	47
<i>J. Cecil</i>	

Interoperability Case Studies and Issues

A Cross-Scale Models Interoperability Problem: The Plate-Form(E)3 Project Case Study	57
<i>Alexis Aubry, Jean Noël, Daniel Rahon, and Hervé Panetto</i>	
Integrated Management of Automotive Product Heterogeneous Data: Application Case Study	62
<i>Massimo D’Auria, Marialuisa Sanseverino, Filippo Cappadona, and Roberto D’Ippolito</i>	
iFeel_IM!: A Cyberspace System for Communication of Touch-Mediated Emotions	70
<i>Dzmitry Tsetserukou, Alena Neviarouskaya, and Kazuhiko Terashima</i>	
Interoperability Assessment Approaches for Enterprise and Public Administration	78
<i>José Marcelo A.P. Cestari, Eduardo R. Loures, and Eduardo Alves Portela Santos</i>	

Enterprise Systems

Supporting Interoperability for Chaotic and Complex Adaptive Enterprise Systems	86
<i>Georg Weichhart</i>	
System Integration for Intelligent Systems	93
<i>Ryo Saegusa</i>	

International Workshop on Adaptive Case Management and Other Non-workflow Approaches to BPM (ACM) 2013

ACM 2013 PC Co-Chairs Message	101
<i>Irina Rychkova, Ilia Bider, and Keith Swenson</i>	

Experience Based Papers

Patterns Boosting Adaptivity in ACM	102
<i>Helle Frisak Sem, Thomas Bech Pettersen, Steinar Carlsen, and Gunnar John Coll</i>	

CMMN Implementation in Executable Model of Business Process at Order-Based Manufacturing Enterprise	112
<i>Vadim Kuzin and Galina Kuzina</i>	

Process Analysis and Collective Behavior in Organizations: A Practitioner Experience	124
<i>Paola Mauri</i>	

Research and New Theoretical Ideas

Supervision of Constraint-Based Processes: A Declarative Perspective...	134
<i>Sauro Schaidt, Eduardo de Freitas Rocha Loures, Agnelo Denis Vieira, and Eduardo Alves Portela Santos</i>	

Dynamic Context Modeling for Agile Case Management	144
<i>Manuele Kirsch-Pinheiro and Irina Rychkova</i>	

Adaptive Case Management as a Process of Construction of and Movement in a State Space	155
<i>Ilia Bider, Amin Jalali, and Jens Ohlsson</i>	

Position Papers

Dynamic Condition Response Graphs for Trustworthy Adaptive Case Management	166
<i>Thomas Hildebrandt, Morten Marquard, Raghava Rao Mukkamala, and Tijs Staats</i>	

Setup and Maintenance Factors of ACM Systems	172
<i>Thanh Thi Kim Tran, Max J. Pucher, Jan Mendling, and Christoph Ruhsam</i>	

**Workshop on Enterprise Integration,
Interoperability and Networking (EI2N) 2013**

EI2N 2013 PC Co-Chairs Message 178
Alexis Aubry, J. Cecil, Kasuhiko Terashima, and Georg Weichhart

Architectures and Platforms

Towards a Framework for Inter-Enterprise Architecture to Boost
 Collaborative Networks 179
Alix Vargas, Andrés Boza, Llanos Cuenca, and Angel Ortiz

A Modelling Approach to Support Enterprise Architecture
 Interoperability 189
*Wided Guédria, Khaled Gaaloul, Yannick Naudet, and
 Henderik A. Proper*

OptiVE: An Interactive Platform for the Design and Analysis of Virtual
 Enterprises 199
Yun Guo, Alexander Brodsky, and Amihai Motro

Engineering and Modelling

Dynamic Generation of Personalized Product Bundles in Enterprise
 Networks 208
Anthony Karageorgos and Elli Rapti

An Information Model for Designing Virtual Environments
 for Orthopedic Surgery 218
J. Cecil and Miguel Pirela-Cruz

Process Integration and Design Optimization Ontologies for Next
 Generation Engineering 228
Massimo D’Auria and Roberto D’Ippolito

**Sustainable Interoperability and Interoperability
for Sustainability**

Modelling a Sustainable Cooperative Healthcare: An
 Interoperability-Driven Approach 238
Ovidiu Noran and Hervé Panetto

Sustainability and Interoperability: Two Facets of the Same
Gold Medal 250
*Michele Dassisti, Ricardo Jardim-Goncalves, Arturo Molina,
 Ovidiu Noran, Hervé Panetto, and Milan M. Zdravković*

International Workshop on Information Systems in Distributed Environment (ISDE) 2013

ISDE 2013 PC Co-Chairs Message	262
<i>Alok Mishra, Jürgen Münch, and Deepti Mishra</i>	

Architecture, Knowledge Management and Process in Distributed Information System

Distributed Software Development with Knowledge Experience Packages	263
<i>Pasquale Ardimento, Marta Cimitile, and Giuseppe Visaggio</i>	
Resolving Platform Specific Models at Runtime Using an MDE-Based Trading Approach.....	274
<i>Javier Criado, Luis Iribarne, and Nicolás Padilla</i>	
Software Architecture in Distributed Software Development: A Review	284
<i>Alok Mishra and Deepti Mishra</i>	

Quality Management in Distributed Information System

Run-Time Root Cause Analysis in Adaptive Distributed Systems	292
<i>Amit Raj, Stephen Barrett, and Siobhan Clarke</i>	
Global Software Development and Quality Management: A Systematic Review	302
<i>Deepti Mishra, Alok Mishra, Ricardo Colomo-Palacios, and Cristina Casado-Lumbreras</i>	

Distributed Information Systems Applications

Building a Concept Solution for Upgrade Planning in the Automation Industry	312
<i>Jukka Kääriäinen, Susanna Teppola, and Antti Välimäki</i>	
Inconsistency-Tolerant Business Rules in Distributed Information Systems	322
<i>Hendrik Decker and Francesc D. Muñoz-Escóí</i>	
Agent-Oriented Software Engineering of Distributed eHealth Systems...	332
<i>Adel Taweel, Emilia Garcia, Simon Miles, and Michael Luck</i>	

Workshop on Methods, Evaluation, Tools and Applications for the Creation and Consumption of Structured Data for the e-Society (META4eS) 2013

Meta4eS 2013 PC Co-Chairs Message	342
<i>Ioana Ciuciu and Anna Fensel</i>	

Business Process Models and Semantics for the e-Society

Towards the Integration of Ontologies with Service Choreographies	343
<i>Mario Cortes-Cornax, Ioana Ciuciu, Sophie Dupuy-Chessa, Dominique Rieu, and Agnès Front</i>	
Compliance Check in Semantic Business Process Management	353
<i>András Gábor, Andrea Kö, Ildikó Szabó, Katalin Ternai, and Krisztián Varga</i>	
Dynamic, Behavior-Based User Profiling Using Semantic Web Technologies in a Big Data Context	363
<i>Anett Hoppe, Ana Roxin, and Christophe Nicolle</i>	
A Virtual Organization Modeling Approach for Home Care Services	373
<i>Luz-Maria Priego-Roche, Christine Verdier, Agnès Front, and Dominique Rieu</i>	

Structured Data Consumption for the e-Society

Querying Brussels Spatiotemporal Linked Open Data	378
<i>Kevin Chentout and Alejandro Vaisman</i>	
Towards Standardized Integration of Images in the Cloud of Linked Data	388
<i>Ruben Tous, Jaime Delgado, Frederik Temmermans, Bart Jansen, and Peter Schelkens</i>	
Adding Spatial Support to R2RML Mappings	398
<i>Kevin Chentout and Alejandro Vaisman</i>	
FRAGOLA: Fabulous RAnking of GastrOnomy LocAtions	408
<i>Ana Alvarado, Oriana Baldizán, Marlene Goncalves, and María-Esther Vidal</i>	

Ontology Evolution and Evaluation

User Satisfaction of a Hybrid Ontology-Engineering Tool	414
<i>Christophe Debruyne and Ioana Ciuciu</i>	

Towards a Hierarchy in Domain Ontologies	424
<i>Peter Bollen</i>	
Semantic Oriented Data Structuration for MABS Application to BIM	432
<i>Thomas Durif, Christophe Nicolle, Nicolas Gaud, and Stéphane Galland</i>	
Towards Bottom Up Semantic Services Definition	437
<i>Cristian Vasquez</i>	
A Structural $SHOIN(\mathcal{D})$ Ontology Model for Change Modelling	442
<i>Perrine Pittet, Christophe Cruz, and Christophe Nicolle</i>	
Workshop on Fact-Oriented Modeling (ORM) 2013	
ORM 2013 PC Co-Chairs Message	447
<i>Terry Halpin</i>	
ORM Formal Foundations and Transforms	
Towards a Core ORM2 Language (Research Note)	448
<i>Enrico Franconi and Alessandro Mosca</i>	
Reference Scheme Reduction on Subtypes in ORM	457
<i>Andy Carver and Terry Halpin</i>	
Extensions to ORM	
Recent Enhancements to ORM	467
<i>Terry Halpin and Matthew Curland</i>	
Including Spatial/Temporal Objects in ORM	477
<i>Gerhard Skagestein and Håvard Tveite</i>	
Demonstrations of Fact-Oriented Modeling Tools	
NORMA Multi-page Relational View	487
<i>Matthew Curland</i>	
Metis: The SDRule-L Modelling Tool	492
<i>Yan Tang Demey and Christophe Debruyne</i>	
Combining Data, Process and Service Modeling	
Mapping BPMN Process Models to Data Models in ORM	503
<i>Herman Balsters</i>	

Elementary Transactions 513
Jan Pieter Zwart and Stijn Hoppenbrouwers

Comparative Analysis of SOA and Cloud Computing Architectures
 Using Fact Based Modeling 524
Baba Piprani, Don Sheppard, and Abbie Barbir

Conceptual Query and Verbalization Languages

A Simple Metamodel for Fact-Based Queries 534
Clifford Heath

Verbalizing ORM Models in Malay and Mandarin 545
Shin Huei Lim and Terry Halpin

Workshop on Semantics and Decision Making (SeDeS) 2013

SeDeS 2013 PC Co-Chairs Message 555
Avi Wasser and Jan Vanthienen

Minimizing Risks of Decision Making by Inconsistency-Tolerant
 Integrity Management 556
Hendrik Decker

Modelling Ontology-Based Decision Rules for Computer-Aided
 Design 566
Ioana Ciuciu and Yan Tang Demey

Decision Support for Operational and Financial Risk
 Management - The ProcessGene Case Study 573
Maya Lincoln and Avi Wasser

Selection of Business Process Alternatives Based on Operational
 Similarity for Multi-subsidiary Organizations 579
Avi Wasser and Maya Lincoln

Workshop on Social Media Semantics (SMS) 2013

SMS 2013 PC Co-Chairs Message 587
Dimitris Spiliotopoulos, Thomas Risse, and Nina Tahmasebi

On the Identification and Annotation of Emotional Properties
 of Verbs 588
*Nikolaos Papatheodorou, Pepi Stavropoulou, Dimitrios Tsonos,
 Georgios Kouroupetroglou, Dimitris Spiliotopoulos, and
 Charalambos Papageorgiou*

Assessing the Coverage of Data Collection Campaigns on Twitter: A Case Study	598
<i>Vassilis Plachouras, Yannis Stavrakas, and Athanasios Andreou</i>	

Structuring the Blogosphere on News from Traditional Media	608
<i>Georgios Petasis</i>	

Specifying a Semantic Wiki Ontology through a Collaborative Reconceptualisation Process	618
<i>António Lucas Soares, Cristovão Sousa, and Carla Pereira</i>	

Workshop on Social and MOBILE Computing for Collaborative Environments (SOMOCO) 2013

SOMOCO 2013 PC Co-Chairs Message	628
<i>Fernando Ferri, Patrizia Grifoni, Arianna D’Ulizia, Maria Chiara Caschera, and Irina Kondratova</i>	

Analyzing Linked Data Quality with LiQuate	629
<i>Edna Ruckhaus, Oriana Baldizán, and María-Esther Vidal</i>	

A Prufer Sequence Based Approach to Measure Structural Similarity of XML Documents	639
<i>Ramanathan Periakaruppan and Rethinaswamy Nadarajan</i>	

Social Networking and Social Media

Recommendations Given from Socially-Connected People	649
<i>Daniel González, Regina Motz, and Libertad Tansini</i>	

A Framework to Promote and Develop a Sustainable Tourism by Using Social Media	656
<i>Tiziana Guzzo, Alessia D’Andrea, Fernando Ferri, and Patrizia Grifoni</i>	

Measuring Betweenness Centrality in Social Internetworking Scenarios	666
<i>Francesco Buccafurri, Gianluca Lax, Serena Nicolazzo, Antonino Nocera, and Domenico Ursino</i>	

Methods, Models and Applications in Web and Mobile Computing

Efficient Solution of the Correlation Clustering Problem: An Application to Structural Balance	674
<i>Lúcia Drummond, Rosa Figueiredo, Yuri Frota, and Mário Levorato</i>	

Towards Assessment of Open Educational Resources and Open Courseware Based on a Socio-constructivist Quality Model	684
<i>Monica Vladoiu and Zoran Constantinescu</i>	
Multimodal Interaction in Gaming	694
<i>Maria Chiara Caschera, Arianna D’Ulizia, Fernando Ferri, and Patrizia Grifoni</i>	

Cooperative Information Systems (CoopIS) 2013 Posters

CoopIS 2013 PC Co-Chairs Message	704
<i>Johann Eder, Zohra Bellahsene, and Rania Y. Khalaf</i>	
Repairing Event Logs Using Timed Process Models	705
<i>Andreas Rogge-Solti, Ronny S. Mans, Wil M.P. van der Aalst, and Mathias Weske</i>	
AnonyFacebook - Liking Facebook Posts Anonymously	709
<i>Pedro Alves and Paulo Ferreira</i>	
E-Contract Enactment Using Meta Execution Workflow	714
<i>Pabitra Mohapatra, Pispipati Radha Krishna, and Kamalakar Karlapalem</i>	
Difference-Preserving Process Merge	718
<i>Kristof Böhmer and Stefanie Rinderle-Ma</i>	
Towards Personalized Search for Tweets	722
<i>Akshay Choche and Lakshmesh Ramaswamy</i>	
Linked Data Based Expert Search and Collaboration for Mashup	726
<i>Devis Bianchini, Valeria De Antonellis, and Michele Melchiori</i>	

Ontologies, DataBases, and Applications of Semantics (ODBASE) 2013 Posters

ODBASE 2013 PC Co-Chairs Message	730
<i>Pieter De Leenheer and Deijng Dou</i>	
Imposing a Semantic Schema for the Detection of Potential Mistakes in Knowledge Resources	731
<i>Vincenzo Maltese</i>	
Towards Efficient Stream Reasoning	735
<i>Debnath Mukherjee, Snehasis Banerjee, and Prateep Misra</i>	

From Theoretical Framework to Generic Semantic Measures Library	739
<i>Sébastien Harispe, Stefan Janaqi, Sylvie Ranwez, and Jacky Montmain</i>	
Categorization of Modeling Language Concepts: Graded or Discrete? . . .	743
<i>Dirk van der Linden</i>	
Author Index	747