2010 14th IEEE International Enterprise Distributed Object Computing Conference Workshops

(EDOCW 2010)

Vitoria, Brazil
25-29 October 2010

IEEE Catalog Number: CFP1025H-PRT
ISBN: 978-1-4244-7965-8

2010 14th IEEE International EDOC Conference: Short Papers and Workshop Papers

Table of Contents

Message from EDOC 2010 General Chair x
Message from EDOC 2010 Program Co-chairs xii
EDOC 2010 Organizing Committee xiii
EDOC Steering Committee xiv
EDOC 2010 Program Committee xv
Additional Reviewers xviii
Message from 3M4SE 2010 Workshop Co-chairs xx
3M4SE 2010 Organizing Committee xxii
3M4SE 2010 Program Committee xxiii
Message from DDPB 2010 Workshop Co-chairs xxiv
DDBP 2010 Organizing Committee xxviii
DDBP 2010 Program Committee xxix
Message from SoEA4EE 2010 Workshop Co-chairs xxx
SoEA4EE 2010 Organizing Committee xxxiv
SoEA4EE 2010 Program Committee xxxv
Message from VORTE 2010/MOST 2010 Workshop Co-chairs xxxvi
VORTE 2010/MOST 2010 Organizing Committee xxxviii
VORTE 2010/MOST 2010 Program Committee xxxix
VORTE 2010/MOST 2010 Steering Committee xl
Message from WGBP 2010 Workshop Co-chairs xli
WGBP 2010 Organizing Committee xlii
WGBP 2010 Program Committee xliii
Message from WODPEC 2010 Workshop Co-chairs xliv
WODPEC 2010 Organizing Committee xlvi
WODPEC 2010 Program Committee xlvii

EDOC 2010: Main Conference Short Papers

A Design Theory Nexus for Situational Enterprise Architecture Management 3
Sabine Buckl, Christian M. Schweda, and Florian Matthes
Applying Processes for User-Driven Refinement of People Activities 9
Tobias Unger and Dieter Roller
Process-Oriented Behavior Generation Using Interaction Patterns 15
Laura M. Daniele, Luís Ferreira Pires, and Marten van Sinderen
IT Consolidation – An Optimization Approach 21
Ulrik Franke, Oliver Holschke, Markus Buschle, Per Närman, and Jannis Rake-Revelant
Learning Transformation Rules from Transformation Examples: An Approach Based on Relational Concept Analysis 27
Xavier Dolques, Marianne Huchard, Clémentine Nebut, and Philippe Reitz
Web Service Reputation Prediction Based on Customer Feedback Forecasting Model 33
Jebrin Al-Sharawneh, Mary-Anne Williams, and David Goldbaum
SWIM – A Next Generation ATM Information Bus-The SWIM-SUIT Prototype 41
Dario Di Crescenzo, Antonio Strano, and Georg Trausmuth

3M4SE 2010: International Workshop on Models and Model-Driven Methods for Service Engineering

Model-Driven Development of Aspectual Pervasive Software Services 49
Dhaminda B. Abeywickrama and Sita Ramakrishnan
Mapping the Substation Configuration Language of IEC 61850 to ArchiMate 60
Johan König, Kun Zhu, Lars Nordström, Mathias Ekstedt, and Robert Lagerström
Model-Driven Development Methodology for B2B Collaborations 69
Ivanna M. Lazarte, Edgar Tello-Leal, Jorge Roa, Omar Chiotti, and Pablo D. Villarreal
Applicability of Process Viewing Patterns in Business Process Management 79
David Schumm, Tobias Anstett, Frank Leymann, and Daniel Schleicher

DDBP 2010: Third International Workshop on Dynamic and Declarative Business Processes

ESProNa: Constraint-Based Declarative Business Process Modeling 91
Michael Igler, Paulo Moura, Michael Zeising, and Stefan Jablonski
An Overview of Models for Business Process Analysis – Beyond Performance Measurement with KPIs 99
Tim Pidun and Carsten Felden
Formalization of Functional Aspects in Business Software Globalization 107
Andrej Danko
Automatic Generation of Optimal Business Processes from Business Rules 117
Bas Steen, Luís Ferreira Pires, and Maria-Eugenia Iacob

SoEA4EE 2010: Two International Workshop on Service-Oriented Enterprise Architecture for Enterprise Engineering

The Relationship between Service Oriented Architecture and Enterprise Architecture 129
Christopher Kistasamy, Alta van der Merwe, and Andre de la Harpe

Towards a Definition of Role-Related Concepts for Business Modeling 138
L.O. Meertens, M.E. Iacob, and L.J.M. Nieuwenhuis

The Analysis Activity in a Systematic SOA-based Architecture Process 147
José Jorge Lima Dias Junior, Eduardo Santana de Almeida, and Silvio Romero de Lemos Meira

Meta-Services as Third Dimension of Service-Oriented Enterprise Architecture 157
Rainer Schmidt

A Model-Driven Architecture Approach to the Efficient Identification of Services on Service-Oriented Enterprise Architecture 165
Saad Alahmari, David de Roure, and Ed Zaluska

Stakeholder Interactions to Support Service Creation in Cloud Computing 173
Lei Wang, Luís Ferreira Pires, Andreas Wombacher, Marten J. van Sinderen, and Chihung Chi

Exploiting Rules and Processes for Increasing Flexibility in Service Composition 177
Brahmananda Sapkota and Marten van Sinderen

An Approach for a More Agile BPM-SOA Integration Supported by Dynamic Services Discovery 186
Alexandre Perin-Souza and Ricardo J. Rabelo

VORTE 2010/MOST2010: The Joint Fifth International Workshop on Vocabularies, Ontologies and Rules for the Enterprise/International Workshop on Metamodels, Ontologies and Semantic Technologies

Conceptual Maps as the First Step in an Ontology Construction Method 199
Rodrigo Rizzi Starr and José Maria Parente de Oliveira

Utility Evaluation of Tools for Collaborative Development and Maintenance of Ontologies 207
Alexander Norta, Roman Yangarber, and Lauri Carlson

A Linguistic Approach to Conceptual Modeling with Semantic Types and OntoUML 215
Lucia Castro, Fernanda Baião, and Giancarlo Guizzardi

A Symbol Grounding Model for Semantic Interpretation of 2-D Line Charts 225
Sandro Rama Fiorini, Mara Abel, and Claiton M.S. Scherer

An Infrastructure for Managing Semantic Documents 235
Lucas de Oliveira Arantes and Ricardo de Almeida Falbo

Conceptual Models for Cross-Cutting Aspects in Enterprise Architecture Modeling 245
Sabine Buckl, Florian Matthes, and Christian M. Schweda
A Well-Founded Software Process Behavior Ontology to Support Business Goals Monitoring in High Maturity Software Organizations 253
Monalessa Perini Barcellos, Ricardo de Almeida Falbo, and Ana Regina Rocha
A Meta-ontology Approach for Representing Vague Linguistic Terms and Fuzzy Rules for Classification in Ontologies 263
Cristiane A. Yaguinuma, Marilde T.P. Santos, Heloisa A. Camargo, and Tatiane M. Nogueira
An Ontology-Based Semantic Foundation for Organizational Structure Modeling in the ARIS Method 272
Paulo Sérgio Santos Jr., João Paulo A. Almeida, and Giancarlo Guizzardi
On the Representation of Temporally Changing Information in OWL 283
Veruska Zamborlini and Giancarlo Guizzardi
Development Approach for e-Science Ontology: A Case Study in Biological Domain 293
Danielle Palazzi, Ely Edison Matos, Fernanda Campos, and Regina Braga
A Platform for Interoperable Domain-Specific Enterprise Modelling Based on ISO 15926 301
Andreas L. Opdahl
Towards an Ontology for Automating Collaborative Business Processes 311
Bahareh Rahmanzadeh Heravi, David Bell, Mark Lycett, and Stephen D. Green

WGBP 2010: International Workshop on Goal-Based Business Process Engineering

Representing Immaterial Value in Business Model 323
Paolo Ceravolo, Ernesto Damiani, Daisy Fasoli, and Gabriele Gianini
Towards a Framework for Business Process Compliance 330
Sepideh Ghanavati, Daniel Amyot, Alberto Siena, Angelo Susi, and Anna Perini
On the Support for the Goal Domain in Enterprise Modelling Approaches 335
Evellin Cristine Souza Cardoso, João Paulo A. Almeida, and Renata S.S. Guizzardi
Synthesizing Enterprise Strategic Model and Business Processes in Active-i* 345
Tuoye Xu, Wenting Ma, Lin Liu, and Dimitris Karagiannis

WODPEC 2010: Sixth International Workshop on ODP for Enterprise Computing

Systems Planning Using ODP 357
Arve Meisingset
Contract Management in Viewpoint Specifications: Experiment in the Electrical Network and the SOA Domains 361
Bruno Traverson

The Stereochemistry of Enterprise Objects 368
Peter F. Linington
On the Synchronization of ODP Textual and Graphical Specifications 376
Daniel Ruiz-Gonzalez, Antonio Vallecillo, and José Raúl Romero
On the Goal Domain in the RM-ODP Enterprise Language: An Initial Appraisal Based on a Foundational Ontology 382
João Paulo Andrade Almeida, Evellin Cristine Souza Cardoso, and Giancarlo Guizzardi
Reflective Federation of Enterprises in Open Service Ecosystem 391
Lea Kutvonen

Author Index 399