

Contents

Engineering Service-Oriented Applications

Building Enterprise Applications Using Unicorn Universe Services	3
<i>Michal Kökörčený and Vladimír Kovář</i>	
Cloud Migration Patterns: A Multi-cloud Service Architecture Perspective . . .	6
<i>Pooyan Jamshidi, Claus Pahl, Samuel Chinenyeze, and Xiaodong Liu</i>	
GovOps: The Missing Link for Governance in Software-Defined IoT Cloud Systems	20
<i>Stefan Nastic, Christian Inzinger, Hong-Linh Truong, and Schahram Dustdar</i>	
MoDAS: Methodology and Tool for Model-Driven Adaptable Services	32
<i>Guadalupe Ortiz, Sonia Peinado, Alfonso García de Prado, and Juan Boubeta-Puig</i>	
Service Interface Synthesis in Business Networks	44
<i>Fuguo Wei, Alistair Barros, and Chun Ouyang</i>	
Virtualizing Communication for Hybrid and Diversity-Aware Collective Adaptive Systems	56
<i>Philipp Zeppezauer, Ognjen Scekcic, Hong-Linh Truong, and Schahram Dustdar</i>	

Resource Management in Service-Oriented Computing

BPM Supported Privacy by Design for Cross-Organization Business Processes	71
<i>Jovan Stevovic, Paolo Sottovia, Maurizio Marchese, and Giampaolo Armellin</i>	
Learning ‘Good Quality’ Resource Allocations from Historical Data	84
<i>Renuka Sindhgatta, Aditya Ghose, and Gaargi Banerjee Dasgupta</i>	
Resource-Aware Process Model Similarity Matching	96
<i>Michaela Baumann, Michael Heinrich Baumann, Stefan Schöning, and Stefan Jablonski</i>	
Supporting Rule-Based Process Mining by User-Guided Discovery of Resource-Aware Frequent Patterns	108
<i>Stefan Schöning, Florian Gillitzer, Michael Zeising, and Stefan Jablonski</i>	

Optimizing Resource Utilization by Combining Running Business Process Instances	120
<i>Christine Natschläger, Andreas Bögl, and Verena Geist</i>	

Knowledge Aware Service Oriented Applications

A Planning-Based Service Composition Approach for Data-Centric Workflows	129
<i>Carlos-Manuel López-Enríquez, Víctor Cuevas-Vicentín, Genoveva Vargas-Solar, Christine Collet, and José-Luis Zechinelli-Martini</i>	

Discovering and Categorizing Goal Alignments from Mined Process Variants	144
<i>Karthikeyan Ponnalagu, Aditya Ghose, Nanjangud C. Narendra, and Hoa Khanh Dam</i>	

Supporting Enterprise Changes Using Actor Performance Assessment	158
<i>Marwen Jabloun, Yemna Sayeb, Henda Ben Ghezala, and Khaled Gaaloul</i>	

Towards a Framework for Semantically-Enabled Compliance Management in Financial Services	171
<i>Amal Elgammal and Tom Butler</i>	

Reasoning on Incomplete Execution Traces Using Action Languages – A First Report	185
<i>Chiara Di Francescomarino, Chiara Ghidini, Sergio Tessaris, and Itzel Vázquez Sandoval</i>	

Semantic Web Services Approach for Collaboration in E-Gov Context	192
<i>Amal Latrache, El habib Nfaoui, and Jaouad Boumhidi</i>	

Intelligent Service Clouds

Contextualised Security Operation Deployment Through MDS@run.time Architecture	201
<i>Wendpanga Francis Ouedraogo, Frédérique Biennier, and Philippe Merle</i>	

Domain Specific Monitoring of Business Processes Using Concept Probes . . .	213
<i>Adrian Mos</i>	

Towards a Model for Resource Allocation in API Value Networks	225
<i>James Houghton, Michael Siegel, and Maja Vukovic</i>	

Using COBIT 5 for Risk to Develop Cloud Computing SLA Evaluation Templates	236
<i>Onyeka Illoh, Shaun Aghili, and Sergey Butakov</i>	
A Non-Parametric Data Envelopment Analysis Approach for Cloud Services Evaluation	250
<i>Chunxiang Xu, Yupeng Ma, and Xiaobo Wang</i>	
Self-Managing Pervasive Service Systems	
A Lightweight User State Monitoring System on Android Smartphones	259
<i>Weishan Zhang and Xun Wang</i>	
Developing Service Platform for Web Context-Aware Services Towards Self-Managing Ecosystem	270
<i>Hiroki Takatsuka, Sachio Saiki, Shinsuke Matsumoto, and Masahide Nakamura</i>	
Retrieving Sensors Data in Smart Buildings Through Services: A Similarity Algorithm	281
<i>Claudia Foglieni, Mirjana Mazuran, Giovanni Meroni, and Pierluigi Plebani</i>	
Formal Modeling and Verification of Service-Based Systems	
An EXPTIME Algorithm for Data-Aware Service Simulation Using Parametrized Automata	295
<i>Walid Belkhir, Yannick Chevalier, and Michael Rusinowitch</i>	
Optimal Virtual Machine Placement in a Multi-tenant Cloud	308
<i>Hana Teyeb, Ali Balma, Nejib Ben Hadj-Alouane, and Samir Tata</i>	
Cloud Computing and Scientific Applications	
A Validation Method of Configurable Business Processes Based on Data-Flow	323
<i>Yiwang Huang and Zaiwen Feng</i>	
Exploiting the Parallel Execution of Homology Workflow Alternatives in HPC Compute Clouds	336
<i>Kary A.C.S. Ocaña, Daniel de Oliveira, Vítor Silva, Silvia Benza, and Marta Mattoso</i>	
Vertical Scaling Capability of OpenStack: Survey of Guest Operating Systems, Hypervisors, and the Cloud Management Platform	351
<i>Marian Turowski and Alexander Lenk</i>	

PhD Symposium Track

A Description-Based Service Search System.	365
<i>Isaac B. Caicedo-Castro, M.-C. Fauvet, and H. Duarte-Amaya</i>	
Dynamic Composite Web Service Execution by Providing Fault-Tolerance and QoS Monitoring	371
<i>Rafael Angarita, Marta Rukoz, and Maude Manouvrier</i>	
Dynamic QoS Requirement Aware Service Composition and Adaptation	378
<i>Ajaya Kumar Tripathy, Manas R. Patra, and Sateesh K. Pradhan</i>	
MobiDisc: Semantic Web Service Discovery Approach in Mobile Environments	386
<i>Cheyman Ben Njima, Chirine Ghedira Guegan, and Lotfi Ben Romdhane</i>	
Monitoring and Checking Privacy Policies of Cloud Services Based on Models	392
<i>Eric Schmieders</i>	
Service Map: A Service Hierarchy for Satisfying User's Requirement of Multiple Granularities	399
<i>Chu Du and ZhangBing Zhou</i>	

Demo Track

WS-Portal an Enriched Web Services Search Engine.	409
<i>Mustapha Aznag, Mohamed Quafafou, and Zahi Jarir</i>	
SUPER: Social-Based Business Process Management Framework	413
<i>Zakaria Maamar, Sherif Sakr, Noura Faci, Mohamed Boukhebouze, and Ahmed Barnawi</i>	
TL-VIEWS: A Tool for Temporal Logic Verification of Transactional Behavior of Web Service Compositions.	418
<i>Scott Bourne, Claudia Szabo, and Quan Z. Sheng</i>	
SmartPM: Automated Adaptation of Dynamic Processes	423
<i>Andrea Marrella, Massimo Mecella, Sebastian Sardina, and Paola Tucceri</i>	
Author Index	429

Service-Oriented Computing - ICSOC 2014 Workshops
WESOA; SeMaPS, RMSOC, KASA, ISC, FOR-MOVES, CCSA
and Satellite Events, Paris, France, November 3-6,
2014, Revised Selected Papers

Toumani, F.; Pernici, B.; Grigori, D.; Benslimane, D.;
Mendling, J.; Ben Hadj-Alouane, N.; Blake, B.; Perrin, O.;
Saleh, I.; Bhiri, S. (Eds.)

2015, XXXVIII, 430 p. 137 illus., Softcover

ISBN: 978-3-319-22884-6