# Table of Contents

## Message from the General Chair

## Message from the Program Co-Chairs

## Organizing Committee

## Program Committee

## Reviewers

## Keynotes

## Panel Discussion

## Enterprise Architecture

A Meta-Model for Automated Enterprise Architecture Model Maintenance ............................................................. 1  
*Matthias Farwick, Wilfried Pasquazzo, Ruth Breu, Christian M. Schweda, Karsten Voges,*  
*and Inge Hanschke*

Capturing Business Strategy and Value in Enterprise Architecture to Support Portfolio Valuation ........................................... 11  
*Maria-Eugenia Iacob, Dick Quartel, and Henk Jonkers*

Process-oriented Information Logistics: Aligning Enterprise Information with Business Processes ........................................... 21  
*Bernd Michelberger, Bela Mutschler, and Manfred Reichert*

## Business Process

Inter-enterprise Business Transaction Management in Open Service Ecosystems .............................................................. 31  
*Lea Kutvonen, Alex Norta, and Sini Ruohomaa*

Techniques for a Posteriori Analysis of Declarative Processes .................................................................................. 41  
*Andrea Burattin, Fabrizio M. Maggi, Wil M.P. van der Aalst, and Alessandro Sperduti*

A State Synchronization Mechanism for Orchestrated Processes ........................................................................... 51  
*Lei Wang, Andreas Wombacher, Luis Ferreira Pires, Marten J. van Sinderen, and Chihung Chi*
Transformations for Enterprise Modeling
Improving the Manageability of Enterprise Topologies Through Segmentation, Graph Transformation, and Analysis Strategies .................................................................61
Tobias Binz, Frank Leymann, Alexander Nowak, and David Schumm

Ontology Transformations ............................................................................................................................................71
Laurent Wouters and Marie-Pierre Gervais

Service Oriented and Cloud Computing
A-DynamiCoS: A Flexible Framework for User-centric Service Composition .................................................................81
Eduardo Gonçalves da Silva, Luis Ferreira Pires, and Marten van Sinderen

Complicated Logistics Network Redesign Considering Service Differentiation .................................................................93
Lina Zhou, Xiaofei Xu, Shengchun Deng, and Xudong Liu

Decision as a Service: Separating Decision-making from Application Process Logic .........................................................103
Alireza Zarghami, Brahmananda Sapkota, Mohammad Zarifi Eslami, and Marten van Sinderen

Middleware
A Middleware Platform to Federate Complex Event Processing ........................................................................................113
Fawaz Paraiso, Gabriel Hermosillo, Romain Rouvoy, Philippe Merle, and Lionel Seinturier

Impact of Cloudlets on Interactive Mobile Cloud Applications .........................................................................................123
Debessay Fesehaye, Yunlong Gao, Klara Nahrstedt, and Guijun Wang

Model Driven Engineering
Emulating Runtime Workflow Adaptation and Aspect Weaving by Recursive Rule-Based Sub-Process Selection - A Model Transformation Approach .................................................................133
Markus Döhring, Axel Schulz, and Ivan Galkin

From Business Application Execution to Design Through Model-Based Reporting ...........................................................143
Ta’id Holmes

A Model-Driven Approach to Situations: Situation Modeling and Rule-Based Situation Detection .................................................................154
Patrícia Dockhorn Costa, Izon Thomas Mielke, Isaac Pereira, and João Paulo A. Almeida

Security/QoS
A Framework for Detecting Malware in Cloud by Identifying Symptoms .................................................................164
Keith Harrison, Behzad Bordbar, Syed T.T. Ali, Chris I. Dalton, and Andrew Norman

Compositional QoS Modeling and Analysis of Cloud-based Federated Ecosystems .................................................................173
Guijun Wang, Haiqin Wang, Sharon Arroyo, Robert Rencher, and James Tjelle

Efficient QoS-based Service Selection with Consideration of User Requirements .................................................................183
Anita Mohebi, Chen Ding, and Chi-Hung Chi
Enterprise Management

Towards an Integrated IT Governance and IT Management Framework .............................................. 191
  Ruben Pereira and Miguel Mira da Silva

When Social Media Meet the Enterprise ............................................................................................... 201
  Sven Graupner, Claudio Bartolini, Hamid Motahari, and Daniil Mirylenka

Automating the Management and Versioning of Service Models at Runtime to Support Service Monitoring ........................................................................................................................................ 211
  Ta’id Holmes, Uwe Zdun, and Schahram Dustdar

Author Index ........................................................................................................................................... 219