

# Table of Contents

## Invited Talks

The Next Decade of BPM . . . . .	1
<i>Phil Gilbert</i>	
BPM in Cloud Architectures: Business Process Management with SLAs and Events . . . . .	5
<i>Vinod Muthusamy and Hans-Arno Jacobsen</i>	
Warning: Don't Assume Your Business Processes Use Master Data . . . .	11
<i>Clay Richardson</i>	

## BPM in Practice

IT Requirements of Business Process Management in Practice – An Empirical Study . . . . .	13
<i>Susanne Patig, Vanessa Casanova-Brito, and Barbara Vögel</i>	
How Novices Model Business Processes . . . . .	29
<i>Jan Recker, Niz Safrudin, and Michael Rosemann</i>	
BPM in Practice: Who Is Doing What? . . . . .	45
<i>Hajo A. Reijers, Sander van Wijk, Bela Mutschler, and Maarten Leurs</i>	

## Correctness

How to Implement a Theory of Correctness in the Area of Business Processes and Services . . . . .	61
<i>Niels Lohmann and Karsten Wolf</i>	
Deciding Behaviour Compatibility of Complex Correspondences between Process Models . . . . .	78
<i>Matthias Weidlich, Remco Dijkman, and Mathias Weske</i>	
Correctness Ensuring Process Configuration: An Approach Based on Partner Synthesis . . . . .	95
<i>Wil van der Aalst, Niels Lohmann, Marcello La Rosa, and Jingxin Xu</i>	

Design

Impact of Granularity on Adjustment Behavior in Adaptive Reuse of  
Business Process Models ..... 112  
*Oliver Holschke*

Machine-Assisted Design of Business Process Models Using Descriptor  
Space Analysis ..... 128  
*Maya Lincoln, Mati Golani, and Avigdor Gal*

From Informal Process Diagrams to Formal Process Models ..... 145  
*Debdoot Mukherjee, Pankaj Dhoolia, Saurabh Sinha,  
Aubrey J. Rembert, and Mangala Gowri Nanda*

Distributed Processes

Value-Oriented Coordination Process Modeling ..... 162  
*Hassan Fatemi, Marten van Sinderen, and Roel Wieringa*

Coordination for Fragmented Loops and Scopes in a Distributed  
Business Process ..... 178  
*Rania Khalaf and Frank Leymann*

PAPEL: A Language and Model for Provenance-Aware Policy  
Definition and Execution..... 195  
*Christoph Ringelstein and Steffen Staab*

Mining

A Fresh Look at Precision in Process Conformance ..... 211  
*Jorge Muñoz-Gama and Josep Carmona*

Trace Alignment in Process Mining: Opportunities for Process  
Diagnostics..... 227  
*R.P. Jagadeesh Chandra Bose and Wil M.P. van der Aalst*

Content-Aware Resolution Sequence Mining for Ticket Routing ..... 243  
*Peng Sun, Shu Tao, Xifeng Yan, Nikos Anerousis, and Yi Chen*

Semantics

Symbolic Execution of Acyclic Workflow Graphs ..... 260  
*Cédric Favre and Hagen Völzer*

Structuring Acyclic Process Models ..... 276  
*Artem Polyvyanyy, Luciano García-Bañuelos, and Marlon Dumas*

A New Semantics for the Inclusive Converging Gateway in Safe  
Processes ..... 294  
*Hagen Völzer*

**Processes and People**

From People to Services to UI: Distributed Orchestration of User  
Interfaces ..... 310  
*Florian Daniel, Stefano Soi, Stefano Tranquillini, Fabio Casati,  
Chang Heng, and Li Yan*

Self-adjusting Recommendations for People-Driven Ad-Hoc  
Processes ..... 327  
*Christoph Dorn, Thomas Burkhart, Dirk Werth, and  
Schahram Dustdar*

A Collaborative Approach to Maturing Process-Related Knowledge .... 343  
*Hans Friedrich Witschel, Bo Hu, Uwe V. Riss, Barbara Thönssen,  
Roman Brun, Andreas Martin, and Knut Hinkelmann*

**Author Index** ..... 359