



BUSTECH 2012

The Second International Conference on Business Intelligence and Technology

July 22-27, 2012

Nice, France

BUSTECH 2012 Editors

Malgorzata Pankowska, University of Economics – Katowice, Poland

Petre Dini, Concordia University - Montreal, Canada / China Space Agency Center -

Beijing, China

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2012) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2012)

International Academy, Research, and Industry Association (IARIA)
412 Derby Way
Wilmington, DE 19810

Phone: (408) 893-6407
Fax: (408) 527-6351

petre@aria.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

BUSTECH 1: BPM AND INTELLIGENCE

Discovering Cross-Perspective Semantic Definitions from Process Execution Logs.....	1
<i>Stefan Schöning, Christoph Günther, Michael Zeising, Stefan Jablonski</i>	
Learning Business Rules for Adaptive Process Models	8
<i>Hans Friedrich Witschel, Tuan Quoc Nguyen, Knut Hinkelmann</i>	
Business Process Simulation for Predictions with Focus on Decision Mining and Execution Time of Tasks	14
<i>Milan Pospisil, Tomáš Hruška</i>	
Transformation Framework for SBVR based Semantic Queries in Business Information Systems	19
<i>Algirdas Sukys, Lina Nemuraite, Bronius Paradauskas, Edvinas Sinkevicius</i>	
Context-Based Adaptation of Process Definition	25
<i>Vojtech Mates, Tomáš Hruška</i>	

BUSTECH 2: TECHNOLOGY-ORIENTED BUSINESS SOLUTIONS

User as Innovator in IT Development Process	32
<i>Małgorzata Pankowska</i>	
Mobile Context-Aware Product Assistant	38
<i>Antti Nummiahko, Timo Laakko</i>	
Adaptive OLAP Caching - Towards a Better Quality of Service in Analytical Systems	42
<i>Pedro Marques, Orlando Belo</i>	

BUSTECH 3: MODELING AND SIMULATION

Cultural Intelligence Decision Support System for Business Activities	48
<i>Zhao Xin Wu, Roger Nkambou, Jacqueline Bourdeau</i>	
Using Network-based Business Process Analysis as a Tool for Delta Analysis of Process Models.....	55
<i>Olga Levina</i>	
Using Business Process Simulation to Assess the Effect of Business Rules Automation.....	61
<i>Olga Levina</i>	
Twitter Search Methods using Retweet Information.....	67
<i>Jaeyoung Chang, Han-Joon Kim</i>	
Author Index	