



BUSTECH 2011

The First International Conference on Business Intelligence and Technology

September 25-30, 2011

Rome, Italy

BUSTECH 2011 Editors

Maribel Yasmina Santos, University of Minho, Portugal

Vagan Terziyan, University of Jyväskylä, Finland

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© (2011) 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@iaria.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

SBVR Based Representation of SPARQL Queries and SWRL Rules for Analyzing Semantic Relations	1
<i>A. Sukys, L. Nemuraite, B. Paradauskas, E. Sinkevicius</i>	
Enterprise Knowledge Modeling and Data Mining Integration	7
<i>A. Stravinskiene, S. Gudas</i>	
A Business Intelligence Infrastructure Supporting Respiratory Health Analysis	13
<i>R. Dinis, A. Ribeiro, M. Santos, J. Cruz, A. Araujo</i>	
Enforcing the Repeated Execution of Logic in Workflows	20
<i>M. Sonntag, D. Karastoyanova</i>	

BUSTECH 2: INTEGRATION AND INTEROPERABILITY

Towards “Executable Reality”: Business Intelligence on Top of Linked Data.....	26
<i>V. Terziyan, O. Kaykova</i>	
Ontology-based Foundations for Data Integration	34
<i>V. Uzdanaviciute, R. Butleris</i>	
Facilitating Business Process Discovery using Email Analysis	40
<i>M. Mavaddat, S. Green, I. Beeson, J. Sa</i>	

BUSTECH 3: FEATURES OF BUSINESS/TECHNOLOGY DEVELOPMENT

Reusable Decision Models Supporting Organizational Design in Business Process Management.....	45
<i>O. Levina, O. Holschke</i>	
Design Engineering Practices in Indian Manufacturing Firms: An Empirical Study	51
<i>S. Roy, P. Banerjee</i>	
ValidKI: A Method for Designing Key Indicators to Monitor the Fulfillment of Business Objectives	57
<i>O. Ligaarden, A. Refsdal, K. Stolen</i>	
Author Index	