

2010 Second International Conference on Information, Process, and Knowledge Management

(eKNOW 2010)

**Saint Maarten, Netherlands Antilles
10-16 February 2010**



IEEE Catalog Number: CFP1072F-PRT
ISBN: 978-1-4244-5688-8

The Second International Conference on Information, Process, and Knowledge Management

eKNOW 2010

Table of Contents

Preface.....	viii
Organizing Committee.....	x
Reviewers.....	xii

eKNOW 1: Knowledge Semantics Processing and Ontology

Ontology-Driven Relation Extraction by Pattern Discovery	1
<i>A. Bellandi, Simone Nasoni, Alessandro Tommasi, and Cesare Zavattari</i>	
Multimedia Ontology-Driven Architecture for Multimedia Systems	7
<i>Ernesto Exposito, Jorge Gómez-Montalvo, and Myriam Lamolle</i>	

eKNOW 2: Process Analysis and Modeling

Identification and Assimilation of Knowledge for Real-Time Control of Enterprise Processes in Manufacturing	13
<i>Manfred Grauer, Daniel Metz, Sachin S. Karadgi, and Walter Schäfer</i>	
Business Process Automation Based on Dependencies	17
<i>Cihan Varol and Coskun Bayrak</i>	
Simulation Environment for IT Service Support Processes: Supporting Service Providers in Estimating Service Levels for Incident Management	23
<i>Christian Bartsch, Marco Mevius, and Andreas Oberweis</i>	
Optimisation-Based on Simulation: A Diagnostic Imaging Department Case-Study	32
<i>Conceição Granja, João Mendes, Filipe Janela, João Soares, and Adélio Mendes</i>	

eKNOW 3: Decision Support Systems

Integrating Context into a Criminal Case-Based Reasoning Model	37
<i>Expedito Carlos Lopes and Ulrich Schiel</i>	
Classifying RSS Feeds with an Artificial Immune System	43
<i>Adam Burkepile and Perry Fizzano</i>	
Hierarchical Path Planning for Multi-agent Systems Situated in Informed Virtual Geographic Environments	48
<i>Mehdi Mekni and Bernard Moulin</i>	

eKNOW 4: Process and Information Management

Changing Products, Changing Processes: Dealing with Small Updates in Product-Based Design	56
<i>Hajo A. Reijers, Jan Vogelaar, and Irene Vanderfeesten</i>	
Alternative Model for Information Ethics	62
<i>Sabah Al-Fedaghi</i>	
Knowledge between Capability and Enactment: Towards Dynamic Knowledge Potentials	68
<i>Max Erik Rohde and David Sundaram</i>	
Workshop-Based Risk Assessment for the Definition of Secure Business Processes	74
<i>Thomas Neubauer and Markus Pehn</i>	

eKNOW 5: Knowledge Identification and Discovery

Knowledge Composition: Theory, Architecture and Implementation	80
<i>Max Erik Rohde and David Sundaram</i>	
Mining Several Kinds of Temporal Association Rules Enhanced by Tree Structures	86
<i>Tim Schlüter and Stefan Conrad</i>	
Please Don't Make Me Draw!	94
<i>Andrea Valente and Emanuela Marchetti</i>	

eKNOW 6: Knowledge Management Systems

Identifying Knowledge Management Challenges in a Service Desk: A Case Study	100
<i>Marko Jäntti and Jaakko Kalliokoski</i>	
Development of a Knowledge Support System for Dynamic Manufacturing Networks	106
<i>Jukka Hemilä</i>	
Querying Incomplete Information Using Bag Relational Algebra	110
<i>Lubomir Stanchev</i>	

Knowledge Requirements Monitoring System: Advantages for Industry and University	120
<i>Renate Strazdina, Marite Kirikova, Ludmila Penicina, and Peteris Rudzajs</i>	

Author Index