

# Contents

<b>Intelligent Computing Systems</b> . . . . .	1
George A. Tsihrintzis, Maria Virvou and Lakhmi C. Jain	
<b>Semantic Tools; Their Use for Knowledge Management in the Public Sector</b> . . . . .	5
Stamatios Theocharis and George Tsihrintzis	
<b>From Game Theory to Complexity, Emergence and Agent-Based Modeling in World Politics</b> . . . . .	39
John A. Paravantis	
<b>A Semantic Approach for Representing and Querying Business Processes</b> . . . . .	87
Eleni-Maria Kalogeraki, Dimitris Apostolou, Themis Panayiotopoulos, George Tsihrintzis and Stamatios Theocharis	
<b>Using Conversational Knowledge Management as a Lens for Virtual Collaboration in the Course of Small Group Activities</b> . . . .	115
Demosthenes Akoumianakis and Dionysia Mavraki	
<b>Spatial Environments for m-Learning: Review and Potentials</b> . . . . .	133
Georgios Styliaras	
<b>Science Teachers' Metaphors of Digital Technologies and Social Media in Pedagogy in Finland and in Greece</b> . . . . .	161
Marianna Vivitsou, Kirsi Tirri and Heikki Kynäslähti	
<b>Data Driven Monitoring of Energy Systems: Gaussian Process Kernel Machine for Fault Identification with Application to Boiling Water Reactors</b> . . . . .	177
Miltiadis Alamaniotis, Stylianos Chatzidakis and Lefteri H. Tsoukalas	

<b>A Framework to Assess the Behavior and Performance of a City Towards Energy Optimization . . . . .</b>	189
Stella Androulaki, Haris Doukas, Evangelos Spiliotis, Ilias Papastamatiou and John Psarras	
<b>An Energy Management Platform for Smart Microgrids. . . . .</b>	207
Federico Delfino, Mansueto Rossi, Fabio Pampararo and Luca Barillari	
<b>Transit Journaling and Traffic Sensitive Routing for a Mixed Mode Public Transportation System. . . . .</b>	227
Joshua Balagapo, Jerome Sabidong and Jaime Caro	
<b>Adaptation of Automatic Information Extraction Method for Environmental Heatmaps to U-Matrices of Self Organising Maps . . . . .</b>	247
Urszula Markowska-Kaczmar, Agnieszka Szymanska and Lukasz Culer	
<b>Evolutionary Computing and Genetic Algorithms: Paradigm Applications in 3D Printing Process Optimization . . . . .</b>	271
Vassilios Canellidis, John Giannatsis and Vassilis Dedoussis	
<b>Car-Like Mobile Robot Navigation: A Survey. . . . .</b>	299
Sotirios Spanogianopoulos and Konstantinos Sirlantzis	
<b>Computing a Similarity Coefficient for Mining Massive Data Sets . . . .</b>	329
M. Coşulschi, M. Gabroveau and A. Sbîrcea	
<b>A Probe Guided Crossover Operator for More Efficient Exploration of the Search Space. . . . .</b>	351
K. Liagkouras and K. Metaxiotis	



<http://www.springer.com/978-3-662-49177-5>

Intelligent Computing Systems

Emerging Application Areas

Tsihrintzis, G.A.; Virvou, M.; Jain, L.C. (Eds.)

2016, X, 368 p. 144 illus., 124 illus. in color., Hardcover

ISBN: 978-3-662-49177-5