

Contents

Biomedical Data Analysis and Warehousing

What Do the Data Say in 10 Years of Pneumonia Victims? A Geo-Spatial Data Analytics Perspective	3
<i>Maribel Yasmina Santos, António Carvalheira Santos, and Artur Teles de Araújo</i>	
Ontology-Guided Principal Component Analysis: Reaching the Limits of the Doctor-in-the-Loop	22
<i>Sandra Wartner, Dominic Girardi, Manuela Wiesinger-Widi, Johannes Trenkler, Raimund Kleiser, and Andreas Holzinger</i>	
Enhancing EHR Systems Interoperability by Big Data Techniques	34
<i>Nunziato Cassavia, Mario Ciampi, Giuseppe De Pietro, and Elio Masciari</i>	
Integrating Open Data on Cancer in Support to Tumor Growth Analysis	49
<i>Fleur Jeanquartier, Claire Jean-Quartier, Tobias Schreck, David Cemernek, and Andreas Holzinger</i>	

Information Technologies in Brain Science

Filter Bank Common Spatio-Spectral Patterns for Motor Imagery Classification	69
<i>Ayhan Yuksel and Tamer Olmez</i>	
Adaptive Segmentation Optimization for Sleep Spindle Detector	85
<i>Elizaveta Saifutdinova, Martin Macaš, Václav Gerla, and Lenka Lhotská</i>	
Probabilistic Model of Neuronal Background Activity in Deep Brain Stimulation Trajectories	97
<i>Eduard Bakstein, Tomas Sieger, Daniel Novak, and Robert Jech</i>	

Social Networks and Process Analysis in Biomedicine

Multidisciplinary Team Meetings - A Literature Based Process Analysis	115
<i>Oliver Krauss, Martina Angermaier, and Emmanuel Helm</i>	
A Model for Semantic Medical Image Retrieval Applied in a Medical Social Network	130
<i>Riadh Bouslimi, Mouhamed Gaith Ayadi, and Jalel Akaichi</i>	

Poster Session

A Clinical Case Simulation Tool for Medical Education	141
<i>Juliano S. Gaspar, Marcelo R. Santos Jr., and Zilma S.N. Reis</i>	
Covariate-Related Structure Extraction from Paired Data	151
<i>Linfei Zhou, Elisabeth Georgii, Claudia Plant, and Christian Böhm</i>	
Semantic Annotation of Medical Documents in CDA Context	163
<i>Diego Monti and Maurizio Morisio</i>	
Importance and Quality of Eating Related Photos in Diabetics	173
<i>Kyriaki Saiti, Martin Macaš, and Lenka Lhotská</i>	
Univariate Analysis of Prenatal Risk Factors for Low Umbilical Cord Artery pH at Birth.	186
<i>Ibrahim Abou Khashabh, Václav Chudáček, and Michal Huptych</i>	
Applying Ant-Inspired Methods in Childbirth Asphyxia Prediction	192
<i>Miroslav Bursa and Lenka Lhotska</i>	
Tumor Growth Simulation Profiling	208
<i>Claire Jean-Quartier, Fleur Jeanquartier, David Cemernek, and Andreas Holzinger</i>	
Integrated DB for Bioinformatics: A Case Study on Analysis of Functional Effect of MiRNA SNPs in Cancer.	214
<i>Antonino Fiannaca, Laura La Paglia, Massimo La Rosa, Antonio Messina, Pietro Storniolo, and Alfonso Urso</i>	
The Database-is-the-Service Pattern for Microservice Architectures	223
<i>Antonio Messina, Riccardo Rizzo, Pietro Storniolo, Mario Tripiciano, and Alfonso Urso</i>	
A Comparison Between Classification Algorithms for Postmenopausal Osteoporosis Prediction in Tunisian Population.	234
<i>Naoual Guannoni, Rim Sassi, Walid Bedhiafi, and Mourad Elloumi</i>	
Process Mining: Towards Comparability of Healthcare Processes	249
<i>Emmanuel Helm and Josef Küng</i>	
Author Index	253

Information Technology in Bio- and Medical Informatics
7th International Conference, ITBAM 2016, Porto,
Portugal, September 5-8, 2016, Proceedings
Renda, M.E.; Bursa, M.; Holzinger, A.; Khuri, S. (Eds.)
2016, X, 253 p. 109 illus., Softcover
ISBN: 978-3-319-43948-8