

Contents – Part V

Information Systems and Technologies

Discovering Popular Events on Twitter	1
<i>Sartaj Kanwar, Rajdeep Niyogi, and Alfredo Milani</i>	
Analysis of Users' Interest Based on Tweets	12
<i>Nimita Mangal, Rajdeep Niyogi, and Alfredo Milani</i>	
User-Friendly Ontology Structure Maintenance Mechanism Targeting Sri Lankan Agriculture Domain	24
<i>S.W.A.D.M. Samarasinghe, A.I. Walisadeera, and M.D.J.S. Goonetillake</i>	
A Software Project Management Problem Solved by Firefly Algorithm	40
<i>Broderick Crawford, Ricardo Soto, Franklin Johnson, Sanjay Misra, and Eduardo Olguín</i>	
A Baseline Domain Specific Language Proposal for Model-Driven Web Engineering Code Generation	50
<i>Zuriel Morales, Cristina Magaña, José Alfonso Aguilar, Anibal Zaldivar-Colado, Carolina Tripp-Barba, Sanjay Misra, Omar Garcia, and Eduardo Zurita</i>	
ArtistRank – Analysis and Comparison of Artists Through the Characterization Data from Different Sources	60
<i>Felipe Lopes de Melo Faria, Débora M.B. Paiva, and Álvaro R. Pereira Jr.</i>	
Solving Manufacturing Cell Design Problems by Using a Dolphin Echolocation Algorithm	77
<i>Ricardo Soto, Broderick Crawford, César Carrasco, Boris Almonacid, Victor Reyes, Ignacio Araya, Sanjay Misra, and Eduardo Olguín</i>	
Cryptanalysis and Improvement User Authentication Scheme for Multi-server Environment	87
<i>Dongwoo Kang, Jongho Moon, Donghoon Lee, and Dongho Won</i>	
An Operational Semantics for Android Applications	100
<i>Mohamed A. El-Zawawy</i>	
A Type System for Android Applications.	115
<i>Mohamed A. El-Zawawy</i>	

A Weed Colonization Inspired Algorithm for the Weighted Set Cover Problem	129
<i>Broderick Crawford, Ricardo Soto, Ismael Fuenzalida Legüe, Sanjay Misra, and Eduardo Olguín</i>	
Software Architecture and Software Quality	139
<i>Michal Žemlička and Jaroslav Král</i>	
Multi-hop Localization Method Based on Tribes Algorithm	156
<i>Alan Oliveira de Sá, Nadia Nedjah, Luiza de Macedo Mourelle, and Leandro dos Santos Coelho</i>	
Developing Tasty Calorie Restricted Diets Using a Differential Evolution Algorithm	171
<i>João Gabriel Rocha Silva, Iago Augusto Carvalho, Michelli Marlane Silva Loureiro, Vinícius da Fonseca Vieira, and Carolina Ribeiro Xavier</i>	
Using Classification Methods to Reinforce the Impact of Social Factors on Software Success	187
<i>Eudisley Anjos, Jansepetrus Brasileiro, Danielle Silva, and Mário Zenha-Rela</i>	
When to Re-staff a Late Project – An E-CARGO Approach.	201
<i>Haibin Zhu, Dongning Liu, Xianjun Zhu, Yu Zhu, Shaohua Teng, and Xianzhong Zhou</i>	
An Experience of Constructing a Service API for Corporate Data Delivery.	218
<i>Itamir de Moraes Barroca Filho, Mario Melo, Cicero Alves Silva, Gibeon Soares de Aquino Jr., Vinicius Campos, and Viviane Costa</i>	
Cat Swarm Optimization with Different Transfer Functions for Solving Set Covering Problems	228
<i>Broderick Crawford, Ricardo Soto, Natalia Berrios, Eduardo Olguín, and Sanjay Misra</i>	
A Data Warehouse Model for Business Processes Data Analytics	241
<i>Maribel Yasmina Santos and Jorge Oliveira e Sá</i>	
Retracted: A Novel Voting Mathematical Rule Classification for Image Recognition	257
<i>Sadrollah Abbasi, Afshin Shahriari, and Yaser Nemati</i>	
Towards a Common Data Framework for Analytical Environments	271
<i>Maribel Yasmina Santos, Jorge Oliveira e Sá, and Carina Andrade</i>	
Dependency Analysis Between PMI Portfolio Management Processes	288
<i>Ana Lima, Paula Monteiro, Gabriela Fernandes, and Ricardo J. Machado</i>	

Representation and Reasoning of Topological Relations Between Enclave and Exclave Regions	301
<i>Wan Neng, Deng Zhongliang, and Yang Guangyong</i>	
Toward a Robust Spell Checker for Arabic Text	312
<i>Mourad Mars</i>	
Geographical Communities and Virtual Communities: The Web 2.0 in the Creation of Tourist Information	323
<i>Ilaria Greco and Angela Cresta</i>	
Analysis Spreading Patterns Generated by Model	337
<i>Thiago Schons, Carolina R. Xavier, Alexandre G. Evsukoff, Nelson F.F. Ebecken, and Vinícius da F. Vieira</i>	
Confederative ERP Systems for Small-to-Medium Enterprises	350
<i>Michal Žemlička and Jaroslav Král</i>	
Longitudinal Analysis of Modularity and Modifications of OSS	363
<i>Gabriel Rolim, Everaldo Andrade, Danielle Silva, and Eudisley Anjos</i>	
State of Art Survey On: Large Scale Image Location Recognition	375
<i>Nuno Amorim and Jorge Gustavo Rocha</i>	
A Felder and Silverman Learning Styles Model Based Personalization Approach to Recommend Learning Objects	386
<i>Birol Ciloglugil and Mustafa Murat Inceoglu</i>	
Modeling Software Security Requirements Through Functionality Rank Diagrams	398
<i>Rajat Goel, M.C. Govil, and Girdhari Singh</i>	
Finding Divergent Executions in Asynchronous Programs	410
<i>Mohamed A. El-Zawawy</i>	
Is Scrum Useful to Mitigate Project's Risks in Real Business Contexts?	422
<i>Joana Oliveira, Margarida Vinhas, Filipe da Costa, Marcelo Nogueira, Pedro Ribeiro, and Ricardo J. Machado</i>	
A Semantic Comparison of Clustering Algorithms for the Evaluation of Web-Based Similarity Measures	438
<i>Valentina Franzoni and Alfredo Milani</i>	
Rating Prediction Based Job Recommendation Service for College Students . . .	453
<i>Rui Liu, Yuanxin Ouyang, Wenge Rong, Xin Song, Cui Tang, and Zhang Xiong</i>	

Development of M-Health Software for People with Disabilities	468
<i>Suren Abrahamyan, Serob Balyan, Avetik Muradov, Vladimir Korkhov, Anna Moskvicheva, and Oleg Jakushkin</i>	
Using Formal Concepts Analysis Techniques in Mining Data from Criminal Databases and Profiling Events Based on Factors to Understand Criminal Environments	480
<i>Quist-Aphetsi Kester</i>	
Network System Design for Combating Cybercrime in Nigeria	497
<i>A.O. Isah, J.K. Alhassan, Sanjay Misra, I. Idris, Broderick Crawford, and Ricardo Soto</i>	
Retracted: Clustering of Wikipedia Texts Based on Keywords	513
<i>Jalalaldin Gharibi Karyak, Fardin Yazdanpanah Sisakht, and Sadrollah Abbasi</i>	
Measure-Based Repair Checking by Integrity Checking	530
<i>Hendrik Decker and Sanjay Misra</i>	
Towards Temporal Analysis of Integrated Scenarios for Sustainable Innovation	544
<i>Alfredo Cuzzocrea, Ilaria D’Elia, Antonio De Nicola, Hugo Maldini, and Maria Luisa Villani</i>	
An Innovative Similarity Measure for Sentence Plagiarism Detection.	552
<i>Agnese Augello, Alfredo Cuzzocrea, Giovanni Pilato, Carmelo Spiccia, and Giorgio Vassallo</i>	
Critical Success Factors for Implementing Business Intelligence System: Empirical Study in Vietnam	567
<i>Quoc Trung Pham, Tu Khanh Mai, Sanjay Misra, Broderick Crawford, and Ricardo Soto</i>	
Particle Swarm Based Evolution and Generation of Test Data Using Mutation Testing	585
<i>Nishtha Jatana, Bharti Suri, Sanjay Misra, Prateek Kumar, and Amit Roy Choudhury</i>	
Business Modeling and Requirements in RUP: A Dependency Analysis of Activities, Tasks and Work Products	595
<i>Carina Campos, José Eduardo Fernandes, and Ricardo J. Machado</i>	
Conversation About the City: Urban Commons and Connected Citizenship . . .	608
<i>Maria Célia Furtado Rocha, Gilberto Corso Pereira, Elizabeth Loiola, and Beniamino Murgante</i>	

Remote Sensing Fire Danger Prediction Models Applied to Northern China . . . 624
Xiaolian Li, Wiegü Song, Antonio Lanorte, and Rosa Lasaponara

Retraction Note to: A Novel Voting Mathematical Rule Classification
for Image Recognition E1
Sadrollah Abbasi, Afshin Shahriari, and Yaser Nemati

Author Index 635

Computational Science and Its Applications – ICCSA
2016

16th International Conference, Beijing, China, July 4-7,
2016, Proceedings, Part V

Gervasi, O.; Murgante, B.; Misra, S.; Rocha, A.M.A.C.;
Torre, C.M.; Tanir, D.; Apduhan, B.O.; Stankova, E.;
Wang, S. (Eds.)

2016, XXVII, 636 p. 207 illus., Softcover

ISBN: 978-3-319-42091-2