

2016 Eighth International Conference on Information and Knowledge Technology (IKT 2016)

**Hamedan, Iran
7 – 8 September 2016**



**IEEE Catalog Number: CFP16IKT-POD
ISBN: 978-1-5090-4336-1**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

******This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP16IKT-POD
ISBN (Print-On-Demand):	978-1-5090-4336-1
ISBN (Online):	978-1-5090-4335-4

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) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

An Overview on Text Coherence Methods	1
<i>M. Abdolahi, M. Zahedi</i>	
Correlation Analysis As A Dependency Measures For Inferring Of Time-Lagged Gene Regulatory Network	6
<i>A Sefidmazgi, F. Ahmadi-Abkenari, S. Mirroshandel</i>	
An Improved OLSR Routing Protocol for Reducing Packet Loss Ratio in Ad-hoc Networks.....	12
<i>Y. Mostafaei, S. Pashazadeh</i>	
An Ontology based Data Model for Iranian Research Information.....	18
<i>M. Raoufnezhad, M. Kahani, Y. Maharati</i>	
Histogram Non-Linear Transform for Sperm Cells Image Detection Enhancement.....	25
<i>F. Kheirkhah, H. Mohammadi, A. Shahverdi</i>	
A Modified Language Modeling Method for Authorship Attribution	32
<i>S. Vazirian, M. Zahedi</i>	
A Game-Theoretic Approach For Locally Detecting Overlapping Communities In Social Networks	38
<i>M. Soleimanpour, A. Hamze</i>	
Human Recognition through Walking Styles by Multiwavelet Transform	47
<i>F. Kazemi, W. Banzhaf, M. Gong</i>	
A High Speed Implementation Counter Mode Cryptography Using Hardware Parallelism	55
<i>S. Najjar-Ghabel, M. Lighvan, S. Yousefi</i>	
Multiple Human Detection in Images Based on Differential Evolution and HOG-LBP.....	61
<i>Z. Ahmadipour, M. Afrasiabi, H. Khotanlou</i>	
M-Commerce: The State Of The Art, Challenges, And Cloud-Based Solutions	66
<i>S. Mohammadpour, F. Tafta</i>	
EDSS: An Extended Deterministic Scale-Free Small World Network	78
<i>R. Nabati, A. Nejad, A. Yousefi</i>	
Modelling and Analysis of the Monotonic Read Consistent Distributed System using Coloured Petri Net	85
<i>A. Taghinezhad, S. Pashazadeh</i>	
An Adaptive Algorithm For Managing Gradient Topology In Peer-To-Peer Networks	91
<i>S. Deiman, A. Saghiri, M. Meybodi</i>	
Performance Evaluation of Spectrum Mobility in Multi-homed Mobile IPv6 Cognitive Radio Cellular Networks.....	98
<i>M. Moghaddam, N. Movahhedinia, M. Khayyambashi, F. Hendessi</i>	
Linear Merging Reduction: A Workflow Diagram Simplification Method.....	105
<i>T. Koochi-Var, M. Zahedi</i>	
Persian Phoneme Recognition using Long Short-Term Memory Neural Network.....	111
<i>M. Daneshvar, H. Veisi</i>	
Minimum Spanning Forest Based Approach for Spatial-Spectral Hyperspectral Images Classification	116
<i>F. Poorahangaryan, H. Ghassemian</i>	
A Clustering Approach to Schedule Workflows to Run on the Cloud	122
<i>A. Deldari, M. Naghibzadeh, A. Rezaeian, H. Abrishami</i>	
A Method for Coverage Optimization in Wireless Multimedia Sensor Networks	128
<i>J. Pournazari, M. Alaei, F. Yazdanpanah</i>	
A Feature Weighting Based Artificial Bee Colony Algorithm for Data Clustering	134
<i>M. Reisi, P. Moradi, A. Abdollahpouri</i>	
Optimizing The Correction Of MCQ Test Answer Sheets Using Digital Image Processing	139
<i>A. Tavana, A. Abbasi, A. Yousefi</i>	
Assessment Of Grayscale Image in Terms of Texture Quality Using Reference Image	144
<i>H. Aghamiri, H. Ghassemian</i>	
RASMAP: An Efficient Heuristic Application Mapping Algorithm for Network-on-Chips.....	149
<i>R. Seidipiri, A. Patooghy, S. Afsharpour, M. Fazeli</i>	
Congestion Aware Routing Metric for Opportunistic Routing in Wireless Ad-hoc Networks	156
<i>A. Parsa, N. Moghim</i>	
Decreasing of Trust-based Routing Delay in Vehicular Ad Hoc Networks	161
<i>S. Heibati, N. Movahhedinia</i>	
Optimization of the Ho-Kashyap Classification Algorithm Using Appropriate Learning Samples	167
<i>D. Hossein, M. Younes, M. Hossein, S. Mehrdad, S. Mehdi</i>	

Proposing an Algorithm for Converting Published and Handwritten Texts to CAPTCHA by Using Image Processing	170
<i>H. Moghaddam</i>	
A Priority Based Method For Congestion Control In Wireless Multimedia Sensor Networks.....	177
<i>P. Sabbagh, M. Alaei, F. Yazdanpanah</i>	
Video Steganography Algorithm Based On Motion Vector Of Moving Object	183
<i>K. Rezagholipour, M. Eshghi</i>	
Design of Fault Tolerant Digital Integrated Circuits based on Quadded Transistor Logic	188
<i>M. Rohanipoor, B. Ghavami, M. Raji</i>	
A Multi-objective Genetic Algorithm for Community Detection in Weighted Networks.....	193
<i>Z. Ghaffaripour, A. Abdollahpouri, P. Moradi</i>	
A Novel Association Rule Mining Using Genetic Algorithm Using Genetic Algorithm.....	200
<i>M. Grami, R. Gheibi, F. Rahimi</i>	
Energy-Efficient Cooperative Spectrum Sensing Using Two Hard Decision Rules	205
<i>M. Najimi, A. Ebrahmizadeh, S. Andargoli</i>	
A Survey on Ordered Weighted Averaging Operators and Their Application in Recommender Systems	211
<i>M. Gorzin, M. Hosseinpourpia, F. Parand, S. Madine</i>	
Target Words Selection for a Persian Brain-Computer-Interface-Based Speller Using Language Model.....	216
<i>H. Amini, H. Veisi, E. Mohammadi</i>	
A Fast Algorithm for Overlapping Community Detection.....	221
<i>M. Elyasi, M. Meybodi, A. Rezvanian, M. Haeri</i>	
Toward an Approach to Deploy Adaptation Mechanisms in Service-Based Applications	227
<i>L. Heravi, F. Aliee, K. Sedighiani</i>	
Presenting An Improved Combination For Classification Of Persian Texts.....	234
<i>M. Jahantigh, N. Daneshpour, M. Erfani, N. Orojilou</i>	
Improve The Quality Of Services To Help Congestion Control Flows To Send A Video In Wireless Multimedia Sensor Networks	241
<i>N. Borzouie</i>	
Adaptation of Universal Dependencies to Specific Grammars: The Case of Persian Dependency Grammar.....	247
<i>N. Hemmati, O. Tabibzadeh, M. Mansoorizadeh</i>	
Induction Of Decision Trees By Looking To Data Sequentially And Using Error Correction Rule	252
<i>N. Bathaeian, M. Mansoorizadeh</i>	
QoS-Aware Provider Selection in e-Services Supply Chain.....	258
<i>H. Ghavamipoor, S. Golpayegani</i>	
Robust Image Watermarking Algorithm Using DCT Coefficients Relation in YCoCg-R Color Space.....	263
<i>M. Moosazadeh, G. Ekbatanifard</i>	
AdaBoost Performance Improvement Using PSO Algorithm.....	273
<i>M. Mohammadpour, M. Ghorbanian, S. Mozaffari</i>	
A Distributed Method Based On Mobile Agent To Detect Sybil Attacks In Wireless Sensor Networks.....	276
<i>S. Moradi, M. Alavi</i>	
Consistency Checking of Clinical Practice Guidelines with MITDL.....	281
<i>M. Sanati, W. MacCaull, M. Majzoobi, T. Maibaum</i>	
Comparison of EEG Signal Features and Ensemble Learning Methods for Motor Imagery Classification	288
<i>M. Mohammadpour, M. Ghorbanian, S. Mozaffari</i>	
Author Index	