In the Name of God

Journal of

Information Systems & Telecommunication

Vol. 3, No. 4, October-December 2015, Serial Number 12

Research Institute for Information and Communication Technology Iranian Association of Information and Communication Technology

Affiliated to: Academic Center for Education, Culture and Research (ACECR)

Managing Director: Habibollah Asghari, Assistant Professor, ACECR, Iran Editor in Chief: Masoud Shafiee, Professor, Amir Kabir University of Technology, Iran

Editorial Board

Dr. Abdolali Abdipour, Professor, Amirkabir University of Technology
Dr. Mahmoud Naghibzadeh, Professor, Ferdowsi University
Dr. Zabih Ghasemlooy, Professor, Northumbria University
Dr. Mahmoud Moghavvemi, Professor, University of Malaya (UM)
Dr. Ali Akbar Jalali, Professor, Iran University of Science and Technology
Dr. Hamid Reza Sadegh Mohammadi, Associate Professor, ACECR
Dr. Ahmad Khademzadeh, Associate Professor, CyberSpace Research Institute (CSRI)
Dr. Abbas Ali Lotfi, Associate Professor, Tarbiat Modares University
Dr. Ramezan Ali Sadeghzadeh, Associate Professor, Khajeh Nasireddin Toosi University of Technology

Dr. Saeed Ghazi Maghrebi, Assistant Professor, ACECR

Administrative Manager: Shirin Gilaki Executive Assistant: Behnoosh Karimi Art Designer: Amir Azadi Print ISSN: 2322-1437 Online ISSN: 2345-2773 Publication License: 91/13216

Editorial Office Address: No.5, Saeedi Alley, Kalej Intersection., Enghelab Ave., Tehran, Iran, P.O.Box: 13145-799 Tel: (+9821) 88930150 Fax: (+9821) 88930157 Email: info@jist.ir URL: www.jist.ir

Indexed in:

- Index Copernicus International
- Journal of Information Systems and Telecommunication
- Islamic World Science Citation Center (ISC)
- Scientific Information Database (SID)
- Regional Information Center for Science and Technology (RICeST) www.ricest.ac.ir
- Magiran

www.indexcopernicus.com www.jist.ir www.isc.gov.ir www.sid.ir www.ricest.ac.ir www.magiran.com

Publisher: Regional Information Center for Science and Technology (RICeST)

Islamic World Science Citation Center (ISC)

This Journal is published under scientific support of Advanced Information Systems (AIS) Research Group and Digital & Signal Processing Research Group, ICTRC

Acknowledgement

JIST Editorial-Board would like to gratefully appreciate the following distinguished referees for spending their valuable time and expertise in reviewing the manuscripts and their constructive suggestions, which had a great impact on the enhancement of this issue of the JIST Journal.

(A-Z)

- Ahmadi Ali, Khaje Nasir-edin Toosi University of Technology, Tehran, Iran
- Akbarizadeh Gholamreza, Shahid Chamran University of Ahvaz, Ahvaz, Iran
- Amindavar Hamid Reza, Amirkabir University of Technology, Tehran, Iran
- Badie Kambiz, ITRC (Iran Telecommunication Research Center), Tehran, Iran
- Baleghi Yasser, Babol Noshirvani University of Technology, Babol, Iran
- Borna Keivan, Kharazmi University, Tehran, Iran
- Fouladi Kazem, University of Tehran, Tehran, Iran
- Falahati Abolfazl, Iran University of Science and Technology, Tehran, Iran
- Geran Gharakhili Fatemeh, Shahid Rajaee Teacher Training University, Tehran, Iran
- Ghanbari Mohammad, University of Essex, Colchester, UK
- Haji Mohammadi Zeinab, Abrar Institute of Higher Education, Tehran, Iran
- Hamidi Hojjatollah, Khaje Nasir-edin Toosi University of Technology, Tehran, Iran
- Hasanian Esfahani Roya, Academic Center for Education Culture and Research (ACECR), Tehran, Iran
- Heydarian Mohsen, Azarbijan Shahid Madani University, Tabriz, Iran
- Jabraeil Jamali Mohammad Ali, Islamic Azad University, Shabestar Branch, Shabestar, Iran
- Jamili Oskouei Rozita, Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran
- Kashef Seyed Sadra, Tarbiat Modares University, Tehran, Iran
- Lotfi Abbasali, Academic Center for Education Culture and Research (ACECR), Tehran, Iran
- Mahdipour Hadi, Ferdowsi University of Mashhad, Mashhad, Iran
- Maleki Marjan, Khaje Nasir-edin Toosi University of Technology, Tehran, Iran
- Moghavvemi Mahmoud, University of Malaya, Kuala Lumpur, Malaysia
- Mohammadzadeh Sajad, University of Birjand, Birjand, Iran
- Mohebbi Keyvan, Islamic Azad University, Mobarakeh Branch, Tehran, Iran
- Moradi Gholamreza, Amirkabir University of Technology, Tehran, Iran
- Moradi Parham, University of Kurdistan, Sanandaj, Iran
- Mosallanejad Ali, Shahid Beheshti University, Tehran, Iran
- Naghibzadeh Mahmoud, Ferdowsi University of Mashhad, Mashhad, Iran
- Parvin Hamid, Iran University of Science and Technology, Tehran, Iran
- Rahmani Mohsen, Arak University, Arak, Iran
- Ramezani Amin, Tarbiat Modares university, Tehran, Iran
- Sadeghzadeh Ramezan Ali, Khaje Nasir-edin Toosi University of Technology, Tehran, Iran
- Shirvani Moghaddam Shahriar, Shahid Rajaee Teacher Training University, Tehran, Iran

Table of Contents

Selecting Enterprise Resource Planning System Using Fuzzy Analytic Hierarchy Process

Hodjatollah Hamidi

A Fuzzy Approach for Ambiguity Reduction in Text Similarity Estimation (Case Study: Persian • Hamid Ahangarbahan and Golam Ali Montazer

• Scalable Community Detection through Content and Link Analysis in Social Networks 224 Zahra Arefian and Mohammad Reza Khayyam Bashi

• On-road Vehicle Detection based on Hierarchical Clustering and Adaptive Vehicle Localization . 230 Moslem Mohammadi Jenghara and Hossein Ebrahimpour Komleh

A New Architecture for Intrusion-Tolerant Web Services Based on Design Diversity Techniques 238 • Sadegh Bejani and Mohammad Abdollahi Azgomi

Automatic Construction of Domain Ontology Using Wikipedia and Enhancing it by Google •

Sedigheh Khalatbari and Seyed Abolghasem Mirroshandel

A Linear Model for Energy-Aware Scheduling Problem Considering Interference in Real-time •

Maryam Hamidanvar and Reza Rafeh

A Hybrid Object Tracking for Hand Gesture (HOTHG) Approach based on MS-MD and its •

Amir Hooshang Mazinan and Jalal Hassanian