

Contents

A. Karahoca and S. Kanbul Message from the Guest Editors	1
International Scientific Committee	2
A. Marzban Improvement of reading comprehension through computer-assisted language learning in Iranian intermediate EFL students	3
E. Asfoura, R. Neumann, G. Kassem and R. Dumke The identifying and adapting of FERP mall form and roles for more trust by marketing of distributed FERP components	11
S. Chatvichienchai WCourEva: Web-based course evaluation system using XML technologies	23
M. Kolli and Z. Boufaida A description logics formalization for the ontology matching	29
D.S. Michele and L. Daniela Decision-support tools for municipal infrastructure maintenance management	36
M.R. Jalilvand, S.S. Esfahani and N. Samiei Electronic word-of-mouth: Challenges and opportunities	42
T.T. Olofintoye and F.F. Akanle The effects of e-mail, video and lecturing methods on sexual risk reduction among adolescents: Counselling for Hiv/Aids prevention	47
G. Şendur, Ö. Özbayrak and M.A. Uyulgan A study of determination of pre-service chemistry teachers' understanding about acids and bases	52
M. Khajvand, K. Zolfaghar, S. Ashoori and S. Alizadeh Estimating customer lifetime value based on RFM analysis of customer purchase behavior: Case study	57
S.A. Mostafavi and A. Afshar Waste load allocation using non-dominated archiving multi-colony ant algorithm	64
J.-G. Sodabeh, R.-J. Ferdous, Z. Lello, K. Ghasem, M. Siroos, H.S. Ghasem, A. Gholipoori and J.-G. Sajjad E-survey (surveys based on e-mail & web) Analysis and identification of cold responsive proteins in Kohdasht spring wheat (<i>Triticum aestivum</i>)	70
E. Kilic and E. Alpaydin Learning the areas of expertise of classifiers in an ensemble	74
S.K. Goudos, K.B. Baltzis, K. Antoniadis, Z.D. Zaharis and C.S. Hilas A comparative study of common and self-adaptive differential evolution strategies on numerical benchmark problems	83
M. Keyvanpour and F. Merrikh-Bayat An Effective chaos-based image watermarking scheme using fractal coding	89
T. Cevik, D. Yiltas and A. Halim Zaim Delay efficient STEM by pipelining	96

K. Maleknejad, M. Nosrati Sahlan and P. Torabi	
Low memory requirement and computational time method for solving a class of integral equations	104
M.M.I. Awad, M.S. Abdullah and A.B.M. Ali	
Extending ETL framework using service oriented architecture	110
A.M. Abdalla, I.A. Saroit, A. Kotb and A.H. Afsari	
Misbehavior nodes detection and isolation for MANETs OLSR protocol	115
F. Hamidi, M.K. Rostami and M. Rahimi	
Comparing barriers to using learning resources among Iranian University students and instructors	122
F. Merrikh-Bayat and S.B. Shouraki	
Memristor-based circuits for performing basic arithmetic operations	128
B.F. Klimova	
Making academic writing real with ICT	133
F. Hamidi and N.N. Roohi	
Manufacture and Validation of Paced Visual Serial Addition Test (PVSAT) for an Iranian Population	138
F. Hamidi, Z.M. Kharamideh and F. Ghorbandordinejad	
Comparison of the training effects of interactive multimedia (CDs) and non-interactive media (films) on increasing learning speed, accuracy and memorization in biological science course	144
V. Paliktzoglou and J. Suhonen	
Part-time online PhD reflection: Train of thoughts	149
A. Karouni, B. Daya and S. Bahlak	
Offline signature recognition using neural networks approach	155
I. Semradova	
Designing E-learning courses in humanities and their use in the interuniversity study programmes	162
M. Rahimi and S. Yadollahi	
Foreign language learning attitude as a predictor of attitudes towards computer-assisted language learning	167
M. Rahimi and S. Yadollahi	
Success in learning English as a foreign language as a predictor of computer anxiety	175
M. Rahimi and S. Fatemeh Hosseini K.	
The impact of computer-based activities on Iranian high-school students' attitudes towards computer-assisted language learning	183
Y. Hamidi, Y. Hamidi and S. Mehrbabak	
Localization versus globalization of social networks	191
M. Rahimi and F. Asadollahi	
Iranian students' readiness for using podcasting in higher education: Access, familiarity, and experience	197
M. Rahimi and S. Yadollahi	
Computer anxiety and ICT integration in English classes among Iranian EFL teachers	203
F. Merrikh-Bayat	
Time series analysis of parkinson's disease, huntington's disease and amyotrophic lateral sclerosis	210
S. Khawandi, B. Daya and P. Chauvet	
Implementation of a monitoring system for fall detection in elderly healthcare	216

Y. Hamidi Rayeshgar; a calculator for prime numbers	221
F. Merrikh-Bayat Low-cost numerical algorithm to find the series solution of nonlinear fractional differential equations with delay	227
F. Merrikh-Bayat and S.B. Shouraki Programming of memristor crossbars by using genetic algorithm	232
M. Keyvanpour and F. Merrikh-Bayat Robust dynamic block-based image watermarking in DWT domain	238
S. Hubackova and M. Ruzickova Experience in foreign language teaching with ICT support	243
H. Saripan and Z. Hamin The application of the digital signature law in securing internet banking: Some preliminary evidence from Malaysia	248
H. Bakhshizadeh, M. Hosseinpour and F. Pahlevanzadeh Rural ICT interactive planning in Ardabil province: Sardabeh case study	254
M.F. Aqda, F. Hamidi and F. Ghorbandordinejad The impact of constructivist and cognitive distance instructional design on the learner's creativity	260
M.F. Aqda, F. Hamidi and M. Rahimi The comparative effect of computer-aided instruction and traditional teaching on student's creativity in math classes	266
A. Shokripour, M. Othman, H. Ibrahim and S. Subramaniam A new method for job scheduling in a non-dedicated heterogeneous system	271
C.-C. Lin, H.-Y. Wu and Y.-F. Chang The critical factors impact on online customer satisfaction	276
S. Kulluk, L. Ozbakir and A. Baykasoglu Self-adaptive global best harmony search algorithm for training neural networks	282
V.M. Sivagami, N. Revathi and Dr.G. Sumathi VoteGrid: A mobile ballot system for decision making in grid environment	287
M. Zeynali, A. Mollanejad and L.M. Khanli Novel hierarchical routing protocol in wireless sensor network	292
R. Mohamad and T.S. Chong An adaptive multimedia courseware for the students' different cognitive styles: a pilot study for history subject	301
G. Şendur, M. Toprak and Esin Şahin Pekmez An analysis of analogies used in secondary chemistry textbooks	307
H. Mohelska and M. Sokolova The creation of the qualitative scenarios in the virtual three-dimensional environment second life	312
P. Sánchez-González, I. Oropesa, V. Romero, A. Fernández, A. Albacete, E. Asenjo, J. Noguera, F. Sánchez-Margallo, D. Burgos and E.J. Gómez TELMA: Technology enhanced learning environment for Minimally Invasive Surgery	316

M.Z. Jafarlou and P.Y. Fard Heuristic and pattern based Merge Sort	322
P. Salvador and A. Nogueira Analysis of the internet domain names re-registration market	325
M.B. Imani, M.R. Keyvanpour and R. Azmi Semi-supervised Persian font recognition	336
F.L. Önkol, R. Zembat and G.U. Balat Computer use attitudes, knowledge and skills, habits and methods of preschool teachers	343
M. Pitocco Information technology and management of diagnostics for analysis of seismic vulnerability in buildings	352
K. Maleknejad and M. Alizadeh An efficient numerical scheme for solving Hammerstein integral equation arisen in chemical phenomenon	361
A. Hamidi and M. Safabakhsh The impact of information technology on E. marketing	365
F. Hamidi, M. Meshkat, M. Rezaee and M. Jafari Information technology in education	369
F. Hamidi, F. Ghorbandordinejad, M. Rezaee and M. Jafari A comparison of the use of educational technology in the developed/developing countries	374
G.A. Sathish Kumar, K. Bhoopathy Bagan and V. Vivekanand A Novel algorithm for image encryption by integrated pixel scrambling plus diffusion [IISPD] utilizing duo chaos mapping applicability in wireless systems	378
F. Behrouzi and K.Y. Wong Lean performance evaluation of manufacturing systems: A dynamic and innovative approach	388
A.A. Yıldırım and C. Özdoğan Parallel wavelet-based clustering algorithm on GPUs using CUDA	396
A. Hamidi, H. Salimi and M. Sharifi A transparent virtual machine monitor level packet compression network service	401
F. Hunka, M. Hucka, J. Kasik and D. Vymetal Detail REA production planning model using value chain	408
Irfanullah, N. Aslam, J. Loo, Roohullah and M. Loomes Adding semantics to the reliable object annotated image databases	414
N. Aslam, I. Ullah, J. Loo, RoohUllah and M. Loomes SemRank: ranking refinement strategy by using the semantic intensity	420
E. Guresen and G. Kayakutlu Definition of artificial neural networks with comparison to other networks	426
H. Mohelska Mobile devices and localization	434
K.J. Kachiashvili and D.I. Melikdzhanian Modern software for the environmental modeling and statistical data analysis	439
M. Vahedi and F. Nejad Haji Ali Irani Information technology (IT) for knowledge management	444

F. Hakimiyan and V. Derhami	
Design of quantum dot semiconductor optical amplifier by intelligence methods	449
A. Bashah Mat Ali, A. Yaseen Ibrahim Shakhathreh, M. Syazwan Abdullah and J. Alostad	
SQL-injection vulnerability scanning tool for automatic creation of SQL-injection attacks	453
A. Deniz Helvacioğlu Kuyucu	
The playground of cloud computing in Turkey	459
N. Mohammadi, V. Ghorbani and F. Hamidi	
Effects of e-learning on language learning	464
Ö. Önder and H. Gümüşkaya	
Architectural platform: A social network site for architects	469
B. Oancea, I.G. Rosca, T. Andrei and A.I. Iacob	
Evaluating Java performance for linear algebra numerical computations	474
B. Oancea, T. Andrei, I.Gh. Rosca and A.I. Iacob	
Parallel algorithms for large scale econometric models	479
M. Okhovvat, M. Sharifi and H. Momeni	
Task allocation to actors in wireless sensor actor networks: an energy and time aware technique	484
I. Onden and E. Guresen	
Interior design of passenger coaches using fuzzy optimization	491
C.T. Kuah and K.Y. Wong	
Efficiency assessment of universities through data envelopment analysis	499
E.M. Tas	
ICT education for development — a case study	507
M. Krishnamurthy, A. Kannan, R. Baskaran and M. Kavitha	
Cluster based bit vector mining algorithm for finding frequent itemsets in temporal databases	513
H. Fatemeh, K. Ahmad and D.M. Mohammad	
ICMAP: An interactive tool for concept map generation to facilitate learning process	524
D. Aydın and A. Uğur	
Extraction of flower regions in color images using ant colony optimization	530
M. Shariati, F. Bahmani and F. Shams	
Enterprise information security, a review of architectures and frameworks from interoperability perspective	537
M. Laal	
Knowledge management in higher education	544
G. Lackermair	
Hybrid cloud architectures for the online commerce	550
N. Mir and S.A. Hussain	
Secure web-based communication	558
L.M. Gorghiu, G. Gorghiu, M. Bîzoi and A.M. Suduc	
The electronic book - a modern instrument used in teachers' training process	563
S. Ashoori and S. Mohammadi	
Compare failure prediction models based on feature selection technique: empirical case from Iran	568

G. Gorghiu, L.M. Gorghiu, A.M. Suduc and M. Bizoi Considerations related to the videoconference with European science teachers organized in the frame of VccSSe project	574
G. Gorghiu, E. Lindfors, L.M. Gorghiu and T. Hämäläinen Acting as tutors in the ECSUT on-line course - how to promote interaction in a computer supported collaborative learning environment?	579
C. Bayraktar, O. Karan and H. Gümüşkaya Diagnosing internal illnesses using pervasive healthcare computing and neural networks	584
U. Güçlü, Y. Güçlütürk and C.K. Loo Evaluation of fractal dimension estimation methods for feature extraction in motor imagery based brain computer interface	589
L. Jahanshahloo and S. Salahshour Fuzzy effects of urban landscapes on land prices	595
A. Paksoy and M. Göktürk Information fusion with dempster-shafer evidence theory for software defect prediction	600
A.S. Larik and S. Haider Clustering based anomalous transaction reporting	606
H.-T. Kim, J.-H. Lee and C.W. Ahn A recommender system based on interactive evolutionary computation with data grouping	611
M. Teimoornia, F. Hamidi, S.M.R.I. Jomeh and S. Foroozesh-nia The implementation of information and communication technology (ICT) in extracurricular activities of education system in Iran	617
S. Shahmir, F. Hamidi, Z. Bagherzadeh and I. salimi Role of ICT in the curriculum educational system	623
E. Gözde Girgin A web 2.0 tool for language teaching with flash content	627
E.S. Georgieva, A.S. Smrikarov and T.S. Georgiev Evaluation of mobile learning system	632
N. Dlodlo and J.P. Tolmay Taking advantage of the Mobicents platform in the design of the SINGA environment	638
C.-C. Glava and A.-E. Glava Development of metacognitive behavior of future teacher students through electronic learning diaries as means of self reflection	649
T.D.O. Adewuyi Stress and on-line registration among fresh students in Lagos State University	654
E. Yel and S. Yalpir Prediction of primary treatment effluent parameters by Fuzzy Inference System (FIS) approach	659
G. Yüksel and S. Kavanoz In search of pre-service EFL certificate teachers' attitudes towards technology	666
C.-C. Glava and A.-E. Glava On-line learning platforms as virtual classrooms. Case study of initial primary teachers training at Babes-Bolyai University of Cluj-Napoca, Romania	672

M. Munk, M. Vrabelova and J. Kapusta	
Probability modeling of accesses to the web parts of portal	677
R.S. Tabrizi, N. Ebrahimi and S.A. Al-Marwai	
On the comparison of KM criteria classifications	684
R.S. Tabrizi, N. Ebrahimi and M. Delpisheh	
KM criteria and success of KM programs: an assessment on criteria from importance and effectiveness perspectives	691
M. Rajabzadeh, F. Adibniya and M. ghasemzadeh	
Condition aware robust routing algorithm with cross layer technique for ad hoc situations	698
V.M. Weng	
Re-imagining painting in digital fiction time, colour, and space in recent experimental moving images	706
P.Z. Zahariev and G.V. Hristov	
Performance evaluation of data delivery approaches for wireless sensor networks	714
G. Ulutas, M. Ulutas and V. Nabiyev	
Distortion free geometry based secret image sharing	721
A. avuoglu and . Kurnaz	
Developing a parameterized simulation platform with intelligent synthetic agents for training driver candidates	727
C. Pagliari, E. Bucciarelli and M. Alessi	
Interdependence of world markets: Economic growth and social well-being	732
B.G. Emiroglu	
Cognitive networks with trainable adaptive radio systems	742
L. Malita	
Social media time management tools and tips	747
M. Ruzickova and S. Hubackova	
Specialities of income taxing according to the Czech legal frame in HR systems	754
A.S. Bozkir and E.A. Sezer	
Predicting food demand in food courts by decision tree approaches	759
A. Pakgozar, R.S. Tabrizi, M. Khalili and A. Esmaeili	
The role of human factor in incidence and severity of road crashes based on the CART and LR regression: A data mining approach	764
C. Perumalla, J. Mak, N. Kee and S. Matthews	
Integrating web applications to provide an effective distance online learning environment for students	770
Y. Batch, M. Mohd Yusof, S.A. Mohd Noah and T.P. Lee	
MTag: A model to enable collaborative medical tagging in medical blogs	785
A. Assareh and M. Hosseini Bidokht	
Barriers to e-teaching and e-learning	791
F. Hamidi, M. Khoshbakht and S. Abdolmaleki	
Application of reigeluth instruction design model in virtual education	796
T. Huseyin and E. Kerem	
Password management diffuculties in system and network management	801

V. Dilmurad, E. Kerem, Ç. Murat and S.B. Sami Open source software usage on municipalities; a case study: Çankaya municipality	805
K.A. Seydi and E. Kerem Characteristic usage of Turkish internet users in office environment	809
G. Rasool, P. Maeder and I. Philippow Evaluation of design pattern recovery tools	813
P.G. Rossi and S. Carletti MAPIT: a pedagogical-relational ITS	820
P. Abbasi, B.S. Bigham and S. Sarencheh Good's history and trust in electronic commerce	827
K. Zolfaghar and A. Aghaie Evolution of trust networks in social web applications using supervised learning	833
S. Sarencheh and B.S. Bigham An applicable master plan to develop city's information technology infrastructure	840
D. Abate, R. Ciavarella, G. Furini, G. Guarnieri, S. Migliori and S. Pierattini 3D modeling and remote rendering technique of a high definition cultural heritage artefact	848
D. Ibrahim Engineering simulation with MATLAB: improving teaching and learning effectiveness	853
A.M. Kızrak and F. Özen A new median filter based fingerprint recognition algorithm	859
M. Drlík, M. Munk and J. Skalka Usage analysis of system for theses acquisition and plagiarism detection	866
M. Keyvanpour, M. Javideh and M.R. Ebrahimi Detecting and investigating crime by means of data mining: a general crime matching framework	872
H. Tohidi The role of risk management in IT systems of organizations	881
T. Liška, T. Sochor and H. Sochorová Comparison between normal and TOR-anonymized web client traffic	888
M.Y. al-Tarawneh, M.S. Abdullah and A.B.M. Ali A proposed methodology for establishing software process development improvement for small software development firms	893
R. Matsuoka and A. Rahimi The positive effect of conference participation on reducing L2 communication apprehension	898
K. Maleknejad and E. Hashemizadeh Numerical solution of the dynamic model of a chemical reactor by Hybrid functions	908
A. Iranbakhsh and S.H. Seyyedrezaei The impact of information technology in biological sciences	913
H. Tohidi Review the benefits of using value engineering in information technology project management	917
H. Tohidi Human resources management main role in information technology project management	925

T. Sochor	Efficiency comparison of greylisting at several SMTP servers	930
H. Kalantari D., E. Kalantari D. and S. Maleki	E-survey (surveys based on e-mail & web)	935
A. Ta'a and M.S. Abdullah	Goal-ontology approach for modeling and designing ETL processes	942
S. Sukaphat	An implementation of location-based service system with cell identifier for detecting lost mobile	949
P. Joshi	Security issues in routing protocols in MANETs at network layer	954
Y. Asadollahi, V. Rafe, S. Asadollahi and S. Assadollahi	A formal framework to model and validate event-based software architecture	961
F. Önder, P. Çelik and İ. Silay	Attitude of teacher candidates toward making computer supported education	967
V. Rafe and F. Mahdian	Style-based modeling and verification of fault tolerance service oriented architectures	972
M. Okhovvat and B. Minaei Bidgoli	A hidden Markov model for Persian part-of-speech tagging	977
F. Juárez	Applying the theory of chaos and a complex model of health to establish relations among financial indicators	982
S. Raza and S. Haider	Suspicious activity reporting using dynamic bayesian networks	987
R. Sahraeian, M. Mohammadi, A. Akbari and A. Ayatollahi	Evolutionary eigenvoice MLLR speaker adaptation	992
M. Zahedi and S.M. Salehi	License plate recognition system based on SIFT features	998
N. Akkuzu and H. Akçay	The design of a learning environment based on the theory of multiple intelligence and the study its effectiveness on the achievements, attitudes and retention of students	1003
H.F. Ameen	Computer simulation and mathematical modelling of static rotor resistance chopper control of WRIM by reference frame theory	1009
S. Tabibian, A. Shokri, A. Akbari and B. Nasersharif	Performance evaluation for an HMM-based keyword spotter and a large-margin based one in noisy environments	1018
D.R. Sulaiman	Microprocessors thermal challenges for portable and embedded systems using thermal throttling technique	1023
H. Erdinc Kocer and K. Kursat Cevik	Artificial neural networks based vehicle license plate recognition	1033
D. Akbaş and H. Gümüşkaya	Real and OPNET modeling and analysis of an enterprise network and its security structures	1038

R. Ezzati and K. Shakibi	
Using adomian's decomposition and multiquadric quasi-interpolation methods for solving Newell–Whitehead equation	1043
M.E. Dalkilic, E. Acar and G. Tokatli	
A simple shuffle-based stable in-place merge algorithm	1049
M. Zahedi and S. Eslami	
Farsi/Arabic optical font recognition using SIFT features	1055
E. Gide and S.M. Riad Shams	
The role of web-based promotion on the development of a relationship marketing model to enable sustainable growth	1060
E. Gide and S.M. Riad Shams	
A study for the implementation of web-enhanced relationship marketing focused sustainable growth model on Bangladesh cricket board	1074
E. Gide and S.M. Riad Shams	
The use of e-CRM database to promote a value-breeding bond network: the case of Hawthorn football club of Australian rules	1083
M. Zahedi, H. Mashal and S.M. Salehi	
An online community for the deaf	1089
F.K. Ahmad, S. Deris and M.S. Abdullah	
Synergy network based inference for breast cancer metastasis	1094
H. Tohidi	
E-government and its different dimensions: Iran	1101
H. Tohidi and M.M. Jabbari	
The main requirements to implement an electronic city	1106
A. Altay and G. Kayakutlu	
Fuzzy cognitive mapping in factor elimination: A case study for innovative power and risks	1111
M. Sadiq and A. Pirhonen	
Design time, run time, and artificial intelligence techniques for mobility of user interface	1120
M.A. Uyulgan, Ö. Özbayrak, S.K. Alpat and Ş. Alpat	
Opinions of teachers and students on secondary education chemistry textbooks	1126
P.L. Teh, Y. Batch and M.L. Ji	
Generation of a template for usage point determination in facebook	1131
H. Tohidi	
Teamwork productivity & effectiveness in an organization base on rewards, leadership, training, goals, wage, size, motivation, measurement and information technology	1137
H. Tohidi	
Modelling of business services in service oriented enterprises	1147
A.A. Jalali, M.R. Okhovvat and M. Okhovvat	
A new applicable model of Iran rural e-commerce development	1157
S. Fathi, A.S. Barzoki, E. Makinian, H. Ghorbani and S.S. Esfahani	
Designing a model for the acceptance of electronic stock exchange by individual investors	1164

M. Khodabin	Some properties of ADK entropy and ADK entropy rate	1170
V. Zolfaghari Mashhadi and M. Reza Kargozari	Influences of digital classrooms on education	1178
A. Alibaygi, M. Karamidehkordi and E. Karamidehkordi	Effectiveness of rural ICT centers: A perspective from west of Iran	1184
E. Hashemizadeh, K. Maleknejad and B. Basirat	Hybrid functions approach for the nonlinear Volterra–Fredholm integral equations	1189
N. Tavakoli, M. Jahanbakhsh, H. Mokhtari and H. Reza Tadayon	Opportunities of electronic health record implementation in Isfahan	1195
M. Jahanbakhsh, N. Tavakoli and H. Mokhtari	Challenges of EHR implementation and related guidelines in Isfahan	1199
I. Soukal and M. Hedvicaková	Retail core banking services e-banking client cluster identification	1205
S.M. Allameh, S.M. Zare and S.m.r. davoodi	Examining the impact of KM enablers on knowledge management processes	1211
M. Allameh, M. Zamani and S.R. Davoodi	The relationship between organizational culture and knowledge management	1224
M.N. Mohammad, N. Sulaiman and O.A. Muhsin	A novel intrusion detection system by using intelligent data mining in weka environment	1237
M.H. Moshref Javadi and Z. Azmoon	Ranking branches of System Group company in Terms of acceptance preparation of electronic Customer Relationship Management using AHP method	1243
T. Pourhabibi, M.B. Imani and S. Haratizadeh	Feature selection on Persian fonts: A comparative analysis on GAA, GESA and GA	1249
E. Parvinnia, M.R. Moosavi, M.Z. Jahromi and K. Ziarati	Overfit prevention in adaptive weighted distance nearest neighbor	1256
C. Ivan	Experiences on implementing a QoS-aware architecture on a DHT based broker overlay	1262
M. Sarkar, S. Roy and N. Mukherjee	Prediction of resource requirement using feedback on job execution performance	1271
R. Khayami	Qualitative characteristics of enterprise architecture	1277
C. Ivan and V. Dadarlat	A tool for evaluating event based middleware	1283
M.H. Moshref Javadi and M. Delshad Dastjerdia	Evaluation effect of management information system implementation on personnel resistance causes in Isfahan power plant management corporation in Iran	1296
S.M. Babamir and M. Borhani Dehkordi	An event based formal specification method to diabetic’s behavior monitor system	1304

M. Agoyi and D. Seral	
The use of SMS encrypted message to secure automatic teller machine	1310
C.-C. Hsu	
Factors affecting webpage's visual interface design and style	1315
S.M. Allameh, Z. Momeni, Z.S. Esfahani and M.K. bardeh	
An assessment of the effect of information communication technology on human resource productivity of Mobarekeh steel complex in Isfahan (IRAN)	1321
M. Khajvand and M.J. Tarokh	
Estimating customer future value of different customer segments based on adapted RFM model in retail banking context	1327
Z.A. Reis, S. Gülseçen and B. Bayrakdar	
To develop an education system for secure internet banking: GIBES	1333
S. Kahraman, C. Çevik and H. Kodan	
Investigation of university students' attitude toward the use of powerpoint according to some variables	1341
M.H. Rezvani and M. Analoui	
Towards strategic bandwidth sharing in overlay multicast networks based on mechanism design theory	1348
İ.H. Çankaya and Ç. Tan	
Effect of cyber bullying on the distrust levels of preservice teachers: considering internet addiction as a mediating Variable	1353
A.C. Dirican and M. Göktürk	
Psychophysiological measures of human cognitive states applied in human computer interaction	1361
N. Tuncay and H. Uzunboylu	
"With" or "Without" a definition	1368
E. Gülçin Yıldırım, A. Karahoca and T. Uçar	
Dosage planning for diabetes patients using data mining methods	1374
O. Mustapaşa, A. Karahoca, D. Karahoca and H. Uzunboylu	
"Hello world", web mining for e-learning	1381
I. Yengin, A. Karahoca, D. Karahoca and H. Uzunboylu	
Deciding which technology is the best for distance education: Issues in media/technology comparisons studies	1388
I. Yengin, A. Karahoca and D. Karahoca	
E-learning success model for instructors' satisfactions in perspective of interaction and usability outcomes	1396
T. Uçar and A. Karahoca	
Predicting existence of Mycobacterium tuberculosis on patients using data mining approaches	1404
E. Alparslan, A. Karahoca and H. Başçi	
Classification of confidential documents by using adaptive neurofuzzy inference systems	1412
B. Yüce, A. Karahoca and D. Karahoca	
The use of electronic curriculums in occupational education to evaluate and improve the cognitive capacity of candidate software engineers	1418
D. Karahoca, A. Karahoca and H. Uzunboylu	
Robotics teaching in primary school education by project based learning for supporting science and technology courses	1425

E. Akarsu and A. Karahoca	
Simultaneous feature selection and ant colony clustering	1432
I. Yengin, A. Karahoca, D. Karahoca and H. Uzunboylu	
Is SMS still alive for education: Analysis of educational potentials of SMS technology?	1439
M. Hosseini Bidokht and A. Assareh	
Life-long learners through problem-based and self directed learning	1446
N.S.H. Nik Ahmad, T.R. Wan and P. Jiang	
Health course module in virtual world	1454
R. Fojtik	
Extreme Programming in development of specific software	1464
N. Cavus	
Investigating mobile devices and LMS integration in higher education: Student perspectives	1469
N. Cavus and M.M. Al-Momani	
Mobile system for flexible education	1475
F.H. Jabali, S.M. Sharafi and K. Zamanifar	
A quantitative algorithm to select software architecture by tradeoff between quality attributes	1480
B.F. Klimova and P. Poulouva	
Tutor as an important e-learning support	1485
R. Rafeh	
Proposing a new search template for modelling languages	1490
T. Allahviranloo and S. Salahshour	
Bounded and symmetric solutions of fully fuzzy linear systems in dual form	1494
V. Ghaffarian	
The new stream of socio-technical approach and main stream information systems research	1499
H. Yousefpour and Z. Jafari	
Using neural search approach for resource discovery in P2P networks	1512
M.E. Damavandi, Z. Bagherzadeh and S. Shahmir	
The analysis of correlation between Information Technology (IT) and educational planning	1517
E. Kerem and K. Aydin	
The problems of public accessed computer laboratories and a suggestion for these problems' solution	1520
F.M. Singer and D. Stoicescu	
Using blended learning as a tool to strengthen teaching competences	1527
S.G. Ghooshchy, S. Kameli and M.K. Jahromi	
The effect of sport activity and gender differences on self-perception in adolescents	1532
Q. Rajput and S. Haider	
A comparison of ontology-based and reference-set-based semantic annotation frameworks	1535
J.M. Alostath, M.K. Metle, L.A. Ali and L.R. Abdulhadi Abdullah	
Cross-use pattern language: cross-cultural user interface development tool	1541
G.A. Ahmadi, S. Abdolmaleki and M. Khoshbakht	
Effect of computer-based training to increase creativity and achievement science, students in fourth grade of elementary	1551

N. Cevher-Kalburan, Ö. Yurt and E. Ömeroğlu	
The use of interactive CD-ROM in early childhood education: Teachers' thoughts and practices	1555
Ö. Yurt and N. Cevher-Kalburan	
Early childhood teachers' thoughts and practices about the use of computers in early childhood education	1562
İ. Özbilgin and M.Y. Imamoğlu	
The impact of dynamic purchasing systems in the electronic public procurement processes	1571
S.H.S. Rezaie and G. Barani	
Iranian teachers' perspective of the implementation of audiovisual devices in teaching	1576
J. Al Dallal	
Transitive-based object-oriented lack-of-cohesion metric	1581
A.A. Seman, A.R. Ahmad, Z. Aziz and A.R. Ayudin	
The effectiveness of teaching and learning history based on multicultural towards national integration in Malaysia	1588
J. Zacek and F. Hunka	
CEM: Class executing modelling	1597
M. Teymouri and M. Ashoori	
The impact of information technology on risk management	1602