

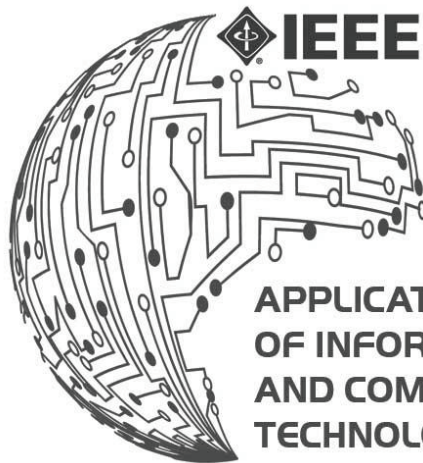
www.aict.info/2016

**APPLICATION
OF INFORMATION
AND COMMUNICATION
TECHNOLOGIES - AICT2016**

**CONFERENCE
PROCEEDINGS**

12-14 October 2016, Baku, Azerbaijan

www.aict.info/2016



www.aict.info/2016

APPLICATION OF INFORMATION AND COMMUNICATION TECHNOLOGIES - AICT2016

CONFERENCE PROCEEDINGS

2016 10th International Conference on Application of Information and Communication Technologies (AICT)

Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc. All rights reserved.

Copyright and Reprint Permission

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 that the per-copy fee indicated in the code is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

Other copying, reprint, or reproduction requests should be addressed to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331.

IEEE Catalog Number: CFP1656H-PRT

ISBN: 978-1-5090-1840-6

Additional copies of this publication are available from

Curran Associates, Inc.

57 Morehouse Lane

Red Hook, NY 12571 USA

+1 845 758 0400

+1 845 758 2633 (FAX)

email: curran@proceedings.com

© Designed by Designing and Publishing Department of Qafqaz University, 2016.

IEEE Catalog Number: CFP1656H-PRT

ISBN: 978-1-5090-1840-6

CONFERENCE COMMITTEES:

CONFERENCE HONORABLE CHAIRMEN

Mr. Mikail Jabbarov, *Minister of Education of Azerbaijan*
Mr. Ramin Guluzade, *Minister of Communications and High Technologies of Azerbaijan*

CONFERENCE CHAIRMEN

Professor Havar Mamedov, *Rector of Qafqaz University, Azerbaijan*
Professor Abel Maharramov, *Baku State University Rector, Azerbaijan*
Assoc.Professor Elmar Gasimov, *Baku Higher Oil School Rector, Azerbaijan*
Professor Nargiz Pashayeva, *Lomonosov Moscow State University Baku branch Rector, Azerbaijan*
Professor Xaliq Yahudov, *Azerbaijan Technical University Rector, Azerbaijan*
Professor Mohn Harun Abdullah, *University Malaysia Sabah Vice-Chancellor, Malaysia*
Professor Rasim Aliguliyev, *Institute of Information Technologies of ANAS Director, Azerbaijan*
Professor Telman Aliyev, *Institute of Control Systems of ANAS Director, Azerbaijan*
Professor Manzoor H. Soomro, *ECO Science Foundation (ECOSF) President, Pakistan*
Professor Alexander Khoroshilov, *UNESCO Institute for Information Technologies in Education (IITE)*

CONFERENCE VICE CHAIRS

Professor Niftali Gocayev, *Qafqaz University, Azerbaijan*
Professor Aydin Kazimzade, *Baku State University, Azerbaijan*
Professor Azad Tagizade, *Lomonosov Moscow State University Baku branch, Azerbaijan*
Assoc.Professor Ag. Asri Ag. Ibrahim, *University Malaysia Sabah, Malaysia*
Professor Oktay Nusratov, *Institute of Control Systems of ANAS, Azerbaijan*
Dr. Rashid Alakbarov, *Institute of Information Technologies of ANAS, Azerbaijan*

GENERAL CHAIRS

Assoc.Professor Abzetdin Adamov, *Qafqaz University, Azerbaijan*

TECHNICAL PROGRAM CO-CHAIRS

Professor H.Levent Akin, *Bogazici University, Turkey*
Assoc.Professor Vincent Guyot, *ESIEA/LIP6, France*
Professor Asoke Talukder, *IIT, Bangalore, India*
Professor Serdar Korukoğlu, *Ege University, Turkey*
Professor In Jeong Lee, *ITIRC Vice-president, Hoseo University, Korea*
Dr. Tae Woon Kang, *Professor and Consultant, National Research Foundation, Korea*
Assoc.Professor Kshetrimayum Rakhesh Singh, *IIT-Guwahati, Guwahati, Assam, India*
Dr. Nazim Agoulmine, *University of Evry Val d'Essonne, France*
Professor Vladimir Kureychik, *Southern Federal University, Russia*
Dr. Gennady Smorodin, *EMC Academic Alliance Russia & CIS, Russia*

PANEL CHAIR

Assoc.Professor Abzetdin Adamov, *Qafqaz University, Azerbaijan*

KEYNOTES, TUTORIALS AND PUBLICATION CHAIR

Assoc.Professor Abzetdin Adamov, *Qafqaz University, Azerbaijan*

LOCAL ORGANIZING COMMITTEE

Professor Khalil Ismailov, Dean of Engineering Faculty, Qafqaz University
Assoc.Professor Abzetdin Adamov, Director of Applied Research Center CeDAWI, Qafqaz University
Assoc.Professor Babek Abbasov, Head of Information Technology and Systems Department, Qafqaz University
Professor Hamzaga Orujov, Head of Department of Mathematics, Qafqaz University
Assoc.Professor Vugar Musayev, Institute of Information Technologies of ANAS
Professor Fakhreddin Isayev, Head of Department of Mathematics and Informatics, Qafqaz University
Dr. Anar Rustemov, Information Technology and Systems Department, Qafqaz University
Asgar Mammadli, CeDAWI Research Center, Qafqaz University
Sevil Imanova, Industrial Engineering Department, Qafqaz University
Etibar Seyidzade, Computer Engineering Department, Qafqaz University
Khayyam Masiyev, Computer Engineering Department, Qafqaz University
Anar Khocayev, Computer Engineering Department, Qafqaz University
Rauf Suleymanli, Computer Engineering Department, Qafqaz University

ADVISORY AND STEERING COMMITTEE

Niftali Gocayev, Vice Rector for Research and Science, Qafqaz University, Azerbaijan
Victor Kureichik, Taganrog Institute of Technology, Southern Federal University, Russia
Mehmet Ulema, Manhattan College, USA
Adnan Yazici, Middle East Technical University, Turkey
Raouf Boutaba, University of Waterloo, Canada
Guy Omidyar, IFIPTC6 WG6.8 Past Chair, USA
Insepov Zinetulla, Nazarbayev University Research and Innovation System, Kazakhstan

TECHNICAL PROGRAM COMMITTEE MEMBERS

Cem Ersoy, Bogazici University, IEEE ComSoc Chapter Chair, Turkey
Asoke K Talukder, IIT Bangalore, India
Etibar Seyidzade, Qafqaz University, Azerbaijan
Agasi Melikov, National Aviation Academy, Azerbaijan
Nadir Alishov, Ukrain National Akademy of Science, Ukrain
Petr Sosnin, Ulyanovsk State Technical University, Russia
Abzetdin Adamov, Qafqaz University, Azerbaijan
Galina Kedrova, Moscow State Lomonosov University, Russia
Khalil Ismailov, Qafqaz University, Azerbaijan
Ali Sahintas, Qafqaz University, Azerbaijan
Mehmet Ulema, Manhatttan College, USA
Masoud Mashhour, Carleton University, Canada
Kamil Saraç, University of Texas at Dallas, USA
Ramiz Alguliyev, Institute of Information Technologies of ANAS, Azerbaijan
Galina Mehdiyeva, Baku State University, Azerbaijan
Anar Rustemov, Qafqaz University, Azerbaijan
Yashar Hajiyev, Qafqaz University, Azerbaijan
Babek Abbasov, Qafqaz University, Azerbaijan
Reijo Savola, VTT Technical Research Centre of Finland, Finland
Alexander Afanasyev, Ulyanovsk State Technical University, Russia
Ali Pourmohammad, Amirkabir University of Technology, Iran
Eyyup Gulbandilar, Eskisehir Osmangazi University, Turkey
Lyazzat Atymbayeva, Kazakh National Research Technical University named after K.I. Satpayev, Kazakhstan
Mohamed Musa, Sudan University of Science and Technology, Sudan
Muammer Akcay, Kütahya Dumlupınar University, Turkey
Murat Koyuncu, Atılım University, Turkey
Samir Rustamov, ADA University, Institute of Control Systems of Azerbaijan National Academy of Sciences, Azerbaijan
Victor Abrukov, Chuvash State University, Russia
Efendi Nasibov, Dokuz Eylül University, Turkey
Kashif Nisar, University Malaysia Sabah, Malaysia
Mohd Helmy Abd Wahab, Universiti Tun Hussein Onn Malaysia, Malaysia
Tofig Hasanov, Kyoto Institute of Technology, Japan
Hasan Ogul, Bashkent University, Turkey

TABLE OF CONTENTS

SESSION 1 – BIG DATA MANAGEMENT AND APPLICATION

THE CASE STUDY APPROACH TO LEARNING TEXT MINING <i>Yerzhan Baiburin, Zheniskul Zhantassova, Aliya Nugumanova, Aigul Syzdykpayeva, Igor Bessmertry</i>	3
LARGE SCALE SYSTEM MANAGEMENT BASED ON MARKOV DECISION PROCESS AND BIG DATA CONCEPT <i>Sagit Valeev, Natalya Kondratyeva</i>	6
APPROACHES FOR INTERACTIVE BROWSING OF LARGE IMAGE DATASETS <i>Gerald Schaefer</i>	10
INVESTIGATION OF ALGORITHMS AND MODELS OF OPTIMIZATION OF CLOUD APPLICATIONS AND SERVICES IN VIRTUAL INFRASTRUCTURE OF DATA CENTER <i>Irina Bolodurina, Denis Parfenov</i>	14
BIG DATA INTEGRATION ARCHITECTURAL CONCEPTS FOR OIL AND GAS INDUSTRY <i>Rasim M. Aliguliyev, Ramiz M. Aliguliyev, Makrufa S. Hajirahimova</i>	20
PARALLELIZING SHORTEST PATH ALGORITHM FOR TIME DEPENDENT GRAPHS WITH FLOW SPEED MODEL <i>Mehmet Akif Ersoy, Can Ozturan</i>	25
STATISTICAL DATA ANALYSIS FOR NETWORK INFRASTRUCTURE MONITORING TO RECOGNIZE ABERRANT BEHAVIOR OF SYSTEM LOCAL SEGMENTS <i>Mikhail Sukhoparov, Alexander Davydov, Ilya Lebedev, Nurzhan Bazhayev</i>	32
TEXT BIG DATA ANALYTICS: EXPLORING API OPPORTUNITY <i>Olga Kolesnichenko, Yuriy Kolesnichenko, Gennady Smorodin, Dariya Yakovleva, Lev Mazelis, Oleg Zhurenkov</i>	37
DETERMINATION OF LOSS OF INFORMATION DURING DATA ANONYMIZATION PROCEDURE <i>Alexey Pervushin, Viktoria Ermachkova, Anton Spivak</i>	42
BIG DATA: POTENTIAL AND INDICATORS <i>Makrufa S. Hajirahimova, Aybeniz S. Aliyeva, Goychak F. Mahmudlu</i>	47
ARCHITECTURE AND SECURITY TOOLS IN DISTRIBUTED INFORMATION SYSTEMS WITH BIG DATA <i>Rinat Pavlikov, Roza Beisembekova</i>	52
DISTRIBUTED INFORMATION AND CONTROL SYSTEM FOR EMERGENCIES IN CRITICAL INFRASTRUCTURES <i>Sagit Valeev, Natalya Kondratyeva</i>	58
CHARACTER-BASED FEATURE EXTRACTION WITH LSTM NETWORKS FOR POS-TAGGING TASK <i>Zhandos Yessenbayev, Aibek Makazhanov</i>	62
SMART LIVING HOME FOR ELDERLY PEOPLE USING WIRELESS SENSOR NETWORKS ON ANDROID APPLICATION <i>Kashif Nisar, Abzetedin Adamov</i>	67
FATIGUE TEST OPTIMIZATION FOR COMPLEX TECHNICAL SYSTEM ON THE BASIS OF LIFECYCLE MODELING AND BIG DATA CONCEPT <i>Natalya Kondratyeva, Sagit Valeev</i>	75
BATCH CLUSTERING ALGORITHM FOR BIG DATA SETS <i>Rasim Aliguliyev, Ramiz Aliguliyev, Rafael Karimov, Adil Bagirov</i>	79

SESSION 2 – DATA MINING AND DATA ENGINEERING

EVALUATION OF MACHINE TRANSLATION OUTPUT IN CONTEXT OF INFLECTIONAL LANGUAGES <i>Daša Munková, Jozef Kapusta, Michal Munk, Jaroslav Reichel</i>	85
MATH MODELING OF PASSENGER TRAFFIC IN THE MONORAIL TRANSPORT SYSTEM <i>Antonova V.M., Kuznetsov N.A., Volkov D.O., Starostenko A. M.</i>	90
BEHAVIOR ANALYSIS AND EVENT DETECTION WITH STATISTICS OF NEWS RELEASE ON INSURGENT WEBSITE <i>Min Tang, Duoyong Sun</i>	94
ROAD CONDITION ANALYSIS USING 3-AXIS ACCELEROMETER AND GPS SENSORS <i>B. Y. Amirgaliyev, K. K. Kuvatov, Z. Y. Baibatyr</i>	99

LINK GRAMMAR PARSER FOR TURKIC LANGUAGES AND ALGORITHMS FOR ESTIMATION THE RELEVANCE OF DOCUMENTS	
<i>Batura Tatiana Victorovna, Murzin Feodor Alexandrovich, Bakiyeva Aigerim Muratovna, Tazhibayeva Saule Zhaksylykbayevna, Yerimbetova Aigerim Sembekovna, Sagnayeva Saule Kairolliyevna</i>	104
SPEECH RECOGNITION USING SUPPORT VECTOR MACHINES	
<i>Kamil Aida-zade, Anar Xocayev, Samir Rustamov</i>	108
ON A MATHEMATICAL MODEL OF THE GENERALIZED SEQUENTIAL PARTIALLY COVERING PROBLEM	
<i>Fidan Nuriyeva</i>	112
APPLYING OF ONTOLOGICAL ENGINEERING TO REPRESENT KNOWLEDGE AND TRAINING SESSIONS	
<i>Bulat Kubekov, Vitaliy Naumenko, Anar Utegenova</i>	115
VISUALIZATION OF PARALLEL MODELING OF DYNAMICAL PROCESSES ON STOCHASTIC KRONECKER GRAPHS	
<i>Anastasia A. Lantseva, Claudia K. Bochenina, Sergey V. Ivanov</i>	119
AN OBJECT-ORIENTED MODEL OF CASE-BASED REASONING SYSTEM USING SITUATIONS TREE	
<i>Ruslan K. Akhmadulin, Igor N. Gluhih, Ivan Y. Karyakin</i>	124
COMPARATIVE ANALYSIS OF FEATURE SELECTION ALGORITHMS IN CONSTRUCTION OF FUZZY CLASSIFIERS	
<i>I.V. Gorbulnov, S.R. Subhankulova, I. A. Hodashinsky, A. E. Yankovskaya</i>	128
ORDERED MULTIDIMENSIONAL MODEL CONSTRUCTION OF RELATIONAL SOURCE FOR INTEGRAL OLAP-MODELING	
<i>Anna Korobko, Ludmila Nozhenkova</i>	131
INFORMATION'S SEMANTIC SEARCH, CLASSIFICATION, STRUCTURING AND INTEGRATION OBJECTIVES IN THE KNOWLEDGE MANAGEMENT CONTEXT PROBLEMS	
<i>Yury Kravchenko, Elmar Kuliev, Ilona Kursitys</i>	136
MULTI-OBJECTIVE PARTICLE SWARM OPTIMIZATION FOR ONTOLOGY ALIGNMENT	
<i>Semenova A.V, Kureychik V.M.</i>	141
EVALUATION OF FUZZY PETRI NETS WITH THE TOOL TRANSPLACESIM	
<i>Michal Kuchárik, Zoltán Balogh</i>	148
APPLICATION OF DATA MINING TECHNOLOGY TO OPTIMIZE THE CITY TRANSPORT NETWORK	
<i>Irina Makarova, Rifat Khabibullin, Vadim Mavrin, Danila Tikhonov, Denis Davletshin, Ksenia Shubenkova</i>	153
A STATISTICAL APPROACH TO MINING THE DM STRATEGY FOR OWA OPERATORS	
<i>Resmiye Nasiboglu, Baris Tekin Tezel</i>	158
THE MOST COMMON PROBLEMS OF DATA MINING	
<i>Sabina Fomenko, Sayar Abdullayev</i>	162
SYNTACTIC TEXT ANALYSIS WITHOUT A DICTIONARY	
<i>Bessmertny I. A., Platonov A.V., Poleschuk E.A., Ma Pengyu</i>	165
EVENTS ANALYSIS BASED ON INTERNET INFORMATION RETRIEVAL AND PROCESS MINING TOOLS	
<i>Irina Shalyaeva, Lyudmila Lyadova, Viacheslav Lanin</i>	168
APPROACH TO DEFINING THE MAXIMUM AMOUNT OF FLOW IN DYNAMIC FUZZY NETWORK WITH THE GIVEN VITALITY DEGREE	
<i>Bozhenyuk Alexander, Gerasimenko Evgeniya, Igor Rozenberg</i>	173
VLSI ELEMENTS PLACEMENT BASED ON SIMULATION OF BATS BEHAVIOR IN NATURE	
<i>Elmar Kuliev, Andrey Lezhebokov, Yuri Kravchenko</i>	178
FUZZY METHOD OF REVEALING IMPLICIT CAUSALITY WITHIN A CONTROL SYSTEM	
<i>Dmitry M. Nazarov, Svetlana V. Begicheva, Dmitry A. Azarov</i>	182
OPINION MINING AND SENTIMENT ANALYSIS FOR CONTEXTUAL ONLINE-ADVERTISEMENT	
<i>Abzeldin Adamov, Esref Adali</i>	187
DATABASE SCHEMA METHOD FOR AUTOMATIC SEMANTIC ERRORS RESOLVING DURING INFORMATION SYSTEMS INTEGRATION	
<i>Andrey V. Grigoryev, Alexander A. Kropotin, Alexander G. Ivashko</i>	190
IDENTIFICATION OF THE PARALLEL DOCUMENTS FROM MULTILINGUAL NEWS WEBSITES	
<i>Bagdat Myrzakhmetov, Aitolkyn Sultangazina, Aibek Makazhanov</i>	197
MAXIMUM RELEVANCE AND CLASS SEPARABILITY FOR HYPERSPECTRAL FEATURE SELECTION AND CLASSIFICATION	
<i>Saeed Jahanshahi</i>	202
A SENTENCE SELECTION MODEL AND HLO ALGORITHM FOR EXTRACTIVE TEXT SUMMARIZATION	
<i>Rasim Alguliyev, Ramiz Aliguliyev, Nijat Isazade</i>	206

AUTHORSHIP IDENTIFICATION OF THE AZERBAIJANI TEXTS USING N-GRAMS <i>Aida-zade K.R., Talibov S.Q.</i>	210
SENTIMENT ANALYSIS FOR BANK SERVICE QUALITY: A RULE-BASED CLASSIFIER <i>Yuliya Bidulya, Elena Brunova</i>	213
OBJECT DETECTION AND SEGMENTATION USING DATA FROM TIME-OF-FLIGHT CAMERAS <i>Timur Luguev, Aida Razakova</i>	217
HEURISTIC APPROACH TO MODEL OF CORPORATE KNOWLEDGE CONSTRUCTION IN INFORMATION AND ANALYTICAL SYSTEMS <i>Victoria Bova, Vladimir Kureichik, Daria Zaruba</i>	221

SESSION 3. CYBER SECURITY ISSUES

EXTENSION OF ACCESS CONTROL POLICY IN SECURE ROLEBASED WORKFLOW MODEL <i>Ivan Tarkhanov</i>	229
MOBILE ID – CRUCIAL ELEMENT OF M-GOVERNMENT IN THE REPUBLIC OF AZERBAIJAN <i>Jana Krimpe</i>	233
CARRIER-GRADE NAT - IS IT REALLY SECURE FOR CUSTOMERS? A TEST ON A TURKISH SERVICE PROVIDER <i>Kevser Ovaz Akpinar, Mustafa Akpinar, Ibrahim Ozcelik, Nejat Yumusak</i>	240
NEW APPROACH TO SOFTWARE CODE DIVERSIFICATION IN INTERPRETED LANGUAGES BASED ON THE MOVING TARGET TECHNOLOGY <i>Mikhail Styugin, Vyacheslav Zolotarev, Anton Prokhorov, Roman Gorbil</i>	244
PRIVACY PROTECTION IN NIGERIAN E-GOVERNMENT SYSTEMS <i>David Alade, Sergey Butakov, Pavol Zavorsky</i>	249
THE WAYS ASSESSMENT OF INFORMATION SECURITY IN ORGANIZATIONS <i>Ganiev Abdulkhalil Abdujalilovich, Yusupov Sabirjan Yusupdjanovich, Gulomov Sherzod Rajaboevich</i>	255
A NEW APPROACH TO DETECTING AND PREVENTING THE WORM HOLE ATTACKS FOR SECURE ROUTING IN MOBILE AD-HOC NETWORKS BASED ON THE SPR PROTOCOL <i>Seyed Ali Sharifi, Seyed Morteza Babamir</i>	258
A CRYPTOGRAPHY APPROACH ON SECURITY LAYER OF WEB SERVICE <i>Arezoo Mirtalebi, Seyed Morteza Babamir</i>	263
ANALYZING VULNERABILITY DATABASES <i>Rashad Aliyev, Lourdes Peñalver</i>	268
A LIGHT WEIGHT DYNAMIC ATTRIBUTE BASED ACCESS CONTROL MODULE INTEGRATED WITH BUSINESS RULES <i>Vali Tawosi</i>	273
RESULTS OF IMPLEMENTING WPA2-ENTERPRISE IN EDUCATIONAL INSTITUTION <i>Konstantin Yanson</i>	278

SESSION 4. LATEST TRENDS IN ICT APPLICATION

BEACON AUTHPATH <i>Emin Huseynov, Jean-Marc Seigneur</i>	285
IMPROVING COLLABORATIVE RECOMMENDER SYSTEMS VIA EMOTIONAL FEATURES <i>Soghra Lazemi, Hossein Ebrahimpour-komleh</i>	290
INFORMATION INTERACTION OF DECENTRALIZED GROUP CONTROL OF UNMANNED VEHICLES <i>S V Tikhonov, R T Sirazetdinov, N R Surkin</i>	295
RESEARCH ON THE STRUCTURAL CHARACTERISTIC OF GLOBAL TERRORIST ORGANIZATION COOPERATION NETWORK <i>Zihan Lin, Duoyong Sun, Min Tang</i>	299
MULTILANGUAGE NATURAL USER INTERFACE TO DATABASE <i>Ruslan Posevkin, Igor Bessmertny</i>	304

USE OF INTEGRATED TECHNOLOGIES FOR FIRE MONITORING AND FIRST ALERT	
<i>A. D'Ambrogio, P. Gaudio, M. Gelfusa, M. Luglio, A. Malizia, C. Roseti, F. Zampognaro, A. Giglio, A. Pieroni, S. Marsella</i>	307
INVESTIGATION OF THE SPATIAL STRUCTURE OF THE ANALOGUE [LEU7] OF OCTARPHIN MOLECULE BY COMPUTER MODELING	
<i>L.N. Agayeva, N.A. Akhmedov, L.I. Ismailova, R.M. Abbasli</i>	312
AUTOMATED RECOGNITION SYSTEM OF STATISTIC GESTURES VIA KINECT SENSOR	
<i>Saule Kudubayeva, Dmitriy Ryumin, Marat Kalghanov, Almatova Assem</i>	316
THE TECHNIQUE OF CREATING DISTRIBUTED COMPUTING SYSTEMS BASED ON SERVICE-ORIENTED ARCHITECTURE	
<i>Lyashov M.V., Bereza A.N., Babaev A.M., Alekseenko J.V., Nazvantsev D.S.</i>	320
USING MODEL-BASED METHODS FOR EMBEDDED SOFTWARE DEVELOPMENT	
<i>S.Jalilian, T.Boroumandnejad, Kazimov Tofig H.</i>	325
COMPUTER MODELING OF SPATIAL STRUCTURE OF DERMOPHIN	
<i>G.A.Akverdieva</i>	328
INTERFACE FOR INTERACTION OF GIS TECHNOLOGY FOR ELECTRONIC MASTER PLAN MANAGEMENT AND THIRD-PARTY SOFTWARE SYSTEMS	
<i>Pavel V. Senchenko, Yury B. Gritsenko, Oleg I. Zhukovsky, Yury P. Ekhlakov</i>	333
EXISTENCE OF REPETITIONS OF DIGITS IN THE CONSTRUCTION OF PERIODIC SEQUENCES RELATED TO $3X+1$ PROBLEM	
<i>Yagub N. Aliyev</i>	337
SELECTION OF TIME SERIES FORECASTING MODEL, USING A COMBINATION OF LINGUISTIC AND NUMERICAL CRITERIA	
<i>T. Afanasieva, A. Sapunkov</i>	341
A FC2TA MODEL FOR CONGESTION MANAGEMENT IN CONFIDENCE AODV PROTOCOL	
<i>Rahim Rashidi, Farugh Katani, Saeid Usefpour, Farooq Ashkooti</i>	346
SIMULATION OF IDENTIFICATION PROCESS OF PARAMETERS OF MOVEMENT OF THE WAGON ON MONORAIL TRANSPORT	
<i>Moroz N., Starostenko A., Gorbachev R.A., Kuznetsov N.A.</i>	351
USING OF MULTI-AGENT SYSTEM TO MODEL A PROCESS OF MAINTENANCE SERVICE AND REPAIR OF EQUIPMENT OF A SERVICE COMPANY	
<i>Vladislav V. Panteleev, Alexey V. Kizim, Valery A. Kamaev, Anna V. Matokhina</i>	355
THE SUBJECT-ORIENTED NOTATION FOR END-USER DATA MODELLING	
<i>Sergey Kucherov, Yuri Rogozov, Alexander Svirido</i>	358
APPLICATION OF NEURAL NETWORK FOR DIGITAL RECURSIVE FILTER DESIGN	
<i>Naila Allakhverdiyeva</i>	363
COMPUTER MODELLING OF SPATIAL AND ELECTRONIC STRUCTURES OF THE COMPLEX OF PEG4 WITH KCL	
<i>I.N. Alieva, Z.I. Hajiyev, S.D. Demukhamedova, N.M. Gojayev</i>	367
PERFORMANCE ANALYSIS OF E-ARCHIVE INVOICE PROCESSING ON DIFFERENT EMBEDDED PLATFORMS	
<i>Salih Bayar</i>	371
THE SYNTHESIS OF RELIABLE SOLUTIONS OF THE LOGISTICS PROBLEMS USING GEOGRAPHIC INFORMATION SYSTEMS	
<i>Stanislav Belyakov, Marina Belyakova, Marina Savelyeva, Igor Rozenberg</i>	375
RECOMMENDER SYSTEM PROVIDING RECOMMENDATIONS FOR UNIDENTIFIED USERS OF A COMMERCIAL WEBSITE	
<i>Igor N. Gluhiih, Ivan Y. Karyakin, Lyudmila V. Sizova</i>	380
INTELLIGENT CONTROL SYSTEM FOR THE RAIL TRANSPORTATIONS	
<i>F.F.Pashchenko, V. A. Trapeznikov, N.A.Kuznetsov, I.K.Minashina, N.G.Ryabykh, E.M.Zakharova</i>	383
BIOINSPIRED APPROACH FOR 3D PACKAGING PROBLEM	
<i>Vladimir Kureichik, Alexander Glushchenko, Vladimir Kureichik Jr., Anton Orlov</i>	387
ANALYSIS OF BIOCLIMATIC STRUCTURE OF ANIMALS' HABITATS ON THE BASE OF THE HEAT BALANCE SIMULATION	
<i>Vladimir Mikhailov, Konstantin Klovov, Anna Pestereva</i>	390
USAGE OF FUZZY EXTRACTORS IN A HANDWRITTEN-SIGNATURE BASED TECHNOLOGY OF PROTECTING A HYBRID DOCUMENT MANAGEMENT SYSTEM	
<i>Pavel Lozhnikov, Alexey Sulavko, Danil Volkov</i>	395

A MEMORY EFFICIENT DISTRIBUTED FUZZY JOINT POINTS CLUSTERING ALGORITHM <i>Can Atilgan, Efendi Nasibov</i>	401
 SESSION 5. COMMUNICATION, NETWORK AND HARDWARE	
OPTIMUM POWER ALLOCATION FOR NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) <i>Talgat Manglayev, Refik Caglar Kizilirmak, Yau Hee Kho</i>	409
A GENERAL EXTENSIBLE FRAMEWORK FOR MOBILE LOCATION-BASED INFORMATION SYSTEMS <i>Mona A. E. Rizvi, Assan Toleuov, Dzhamshed Khaitov, Sagynysh Baitursinov</i>	413
ANOMALY DETECTION IN NETWORK TRAFFIC USING EXTREME LEARNING MACHINE <i>Yadigar Imamverdiyev, Lyudmila Sukhostat</i>	418
THE TECHNOLOGY FOR THE AUTOMATIC FORMATION OF THE PERSONAL DIGITAL VOICE PATTERN <i>R.R. Mussabayev, Ye. N. Amirgaliyev, A.T.Tairova, T.R.Mussabayev, K.Ch. Koibagarov</i>	422
COMPARISON OF QOS ARCHITECTURES FOR VOIP TRAFFICS IN IPV4 AND IPV6 <i>Hayder AL-Fayyadh, Murat Koyuncu</i>	427
VISUAL QUALITY ESTIMATION TECHNIQUE FOR SERVICES IN CLOUD ENVIRONMENTS <i>Aleksandr Skatkov, Elena Mashchenko, Victoria Shevchenko, Dmitry Voronin</i>	432
ANALYSIS OF THE STATUS OF MARINE AUTOMATION SYSTEMS PROBLEMS ON THE EXAMPLE OF MODERN TECHNOLOGICAL NETWORKS <i>Sergei Sokolov, Sergei Chernyi, Aleksandr Bordug, Ivan Titov</i>	436
DIAGRAMMATIC MODELS PROCESSING IN DESIGNING THE COMPLEX AUTOMATED SYSTEMS <i>A.N. Afanasyev, N.N. Voit, R.F. Gainullin</i>	441
IMPROVING EMERGENCY MANAGEMENT DSS THROUGH THE CAP PROTOCOL <i>Stefano Marsella, Marcello Marzoli</i>	445
ALGORITHMS IN PORTABLE DIGITAL DEVICE UHDTV PANORAMIC IMAGE FORMATION <i>I.S. Konstantinov, S.A. Lazarev, K.A. Rubtsov, Y.N. Maslakov</i>	449
IMPLEMENTING CYCLING TRAINING APPLICATION FOR MOBILE DEVICES <i>Andrey Bogdanchikov, Rassim Suliyev, Bekzhan Bolatov</i>	452
THE USAGE OF THE MOBILE AD-HOC NETWORKS IN THE CONSTRUCTION INDUSTRY <i>Igor Konstantinov, Kostiantyn Polshchikov, Sergej Lazarev, Olha Polshchikova</i>	455
THE EFFECT OF THE DEVICE MISMATCH ON PARAMETERS OF GAN MMIC PHASE SHIFTERS <i>Aleksandr Timoshenko, Egor Belousov, Ksenia Molenkamp, Alexander Bakhtin</i>	458
REAL TIME FACE DETECTION/MONITOR USING RASPBERRY PI AND MATLAB <i>Ali Akbar Shah, Syed Zulfiqar Ali Zaidi, Dr. Bhawani Shankar Chowdhry, Dr. Jawaid Daudpoto</i>	462
THE MODEL OF MANAGEMENT ACCESS TO THE RESOURCES OF THE CLOSED DISCRETIONARY INFORMATION COMPUTATION ENVIRONMENT IN THE FORM OF CORPORATE PORTAL NETWORK <i>Igor S. Konstantinov, Sergej A. Lazarev, Oleg V. Mihalev, Vladimir E. Kiselev, Alexander V. Demidov</i>	466
NEUROEVOLUTION: PROBLEMS, ALGORITHMS, AND EXPERIMENTS <i>Sergey Rodzin, Olga Rodzina, Lada Rodzina</i>	469
A HEURISTIC ALGORITHM FOR THE BAND COLLOCATION PROBLEM <i>Arif Gursoy, Mehmet Kurt, Urfat Nuriyev, Hakan Kutucu</i>	473
FIGURATIVELY-SEMANTIC SUPPORT IN PRECEDENT-ORIENTED SOLVING THE PROJECT TASKS <i>Petr Sosnin</i>	477
CPTRUSTWORTHINESS: NEW ROBUST MODEL FOR TRUST EVALUATION IN CLOUD COMPUTING <i>Fargana Abdullayeva</i>	482
VIRTUAL CLOUD NETWORK LABORATORY BASED ON IAAS WITH AUTOMATIZED CREATION OF NETWORK TOPOLOGY ON DEMAND <i>Yu.A. Ushakov, P.N. Polezhaev, L.V. Legashev, A.E. Shukhman, I.P. Bolodurina</i>	488
INFORMATIONAL AND CONTROL SYSTEM CONFIGURATION GENERATION PROBLEM WITH LOAD-BALANCING OPTIMIZATION <i>E.V. Melnik, A.B. Klimenko</i>	492
A BETTER HEURISTIC FOR THE MINIMUM CONNECTED DOMINATING SET IN AD HOC NETWORKS <i>Onur Ugurlu, Deniz Tanir, Elnur Nuri</i>	497

AUTOMATION OF INTERACTION OF CUSTOMERS AND SUPPLIERS IN CONTROL SYSTEM OF PROVIDING ELECTRONIC SERVICES TO THE POPULATION WITHIN NETWORK OF PORTALS <i>Volkov V.N., Stichuk A.A., Lunev R.A., Demidov A.V.</i>	501
THE CROSSTALK COMPENSATOR FOR FIBER-OPTIC DATA TRANSMISSION SYSTEMS WITH DIVISION MULTIPLEXING <i>Dmitry Kiesewetter, Victor Malyugin</i>	506
A DISTRIBUTED PARTICLE FILTER FOR ACUSTIC TARGET TRACKING IN WIRELESS SENSOR NETWORKS <i>Farooq Ashkooti, Rahim Rashidy</i>	510
PERFORMANCE IMPROVEMENT OF 40 GB/S WDM SYSTEMS BY OPTIMIZATION OF DISPERSION MAP <i>Muhammad Yousaf Hamza, Imran Hayee</i>	516
EU-OFDM BASED MULTIPLE ACCESS FOR VISIBLE LIGHT COMMUNICATION NETWORKS <i>Gerard Djengomemgoto, Omer Narmanlioglu, Murat Uysal, Refik Caglar Kizilirmak</i>	521
ANALYSIS OF APPLICABILITY OF OPEN SINGLE SIGN-ON PROTOCOLS IN DISTRIBUTED INFORMATION-COMPUTING ENVIRONMENT <i>Lazarev S.A., Demidov A.V., Volkov V.N., Stychuk A.A., Polovinkin D.A.</i>	525
MULTI-OBJECTIVE OPTIMIZATION ROUTE SELECTION AND RESOURCE ALLOCATION IN WIRELESS MULTI-HOP COOPERATIVE COGNITIVE RADIO SENSOR NETWORKS BASED ON OFDMA <i>Fereshteh Atri Niasar, Ali Shahzadi</i>	530
PERFORMANCE OF OFDM-BASED ADAPTIVE VISIBLE LIGHT COMMUNICATIONS <i>Omer Narmanlioglu, Murat Uysal, Refik Caglar Kizilirmak</i>	535
EFFECTIVE MULTITHRESHOLD DECODING ALGORITHMS FOR WIRELESS COMMUNICATION CHANNELS <i>Zolotarev V., Ovechkin G., Issainova A., Satybalдина D., Tashatov N., L.N. Gumilyov</i>	539
PERFORMANCE OF COMMUNICATION PROTOCOLS UNDER TRANSFER A GROUP OF ACKNOWLEDGMENT FRAMES <i>Kushnazarov Farruh I, Yakovlev Valentin V.</i>	544
STUDY OF ROBUST STABILITY AND QUALITY OF THE TWO CHANNEL CONTROL SYSTEM <i>Aizhan Erulanova, Gennadii Shadrin, Natalia Arinova, D. Serikbaev</i>	549
DEVELOPMENT A METHOD FOR ROUTING IN HETEROGENEOUS TELECOMMUNICATION SYSTEMS UNDER UNCERTAINTY USING FUZZY LOGIC <i>Q.T. Tran, T.H.T Vo, V.N. Dmitriev, A.A. Sorokin</i>	553
EVALUATION OF THE AVAILABLE WIRELESS REMOTE DEVICES SUBJECT TO THE INFORMATION IMPACT <i>Nurzhan Bazhayev, Ilya Lebedev, Irina Krivtsova, Mikhail Sukhoparov, Kseniya Salakhutdinova, Alexander Davydov, Yuriy Shaparenko</i>	556
MONITORING OF QUALITATIVE CHANGES OF NETWORK TRAFFIC STATES BASED ON THE HETEROSCEDASTICITY EFFECT <i>Aleksandr Skatkov, Aleksey Bryukhovetskiy, Victoria Shevchenko, Dmitry Voronin</i>	562
A NETWORK PLATFORM FOR CREATING DIGITAL ENTREPRENEURSHIP IN CLOUD ENVIRONMENT BASED ON BIG DATA <i>Heresh Beyadar, Maryam Askari, Ararat Askari</i>	566
SMART CONTROL SYSTEM OF THERMAL MODE OF STABILIZATION COLUMN <i>Gulyaev S.V.</i>	570
DEVELOPING A COMPUTATION ALGORITHM FOR APPROXIMATION SOLUTION OF LINEAR FREDHOLM-STIELTJES INTEGRAL EQUATIONS OF SECOND KIND USING GENERALIZED TRAPEZOID QUADRATURE METHOD <i>Isa Muslu, Moussa Mahamat Boukar</i>	575
TOWARDS OPTIMIZATION OF AVAILABILITY AND COST IN SELECTION OF GEO-DISTRIBUTED CLOUDS DATACENTER <i>Hasan Ziafat, Seyed Morteza Babamir</i>	580
ON THE METHODS OF COLLECTING AND STORING BIG NETWORK TRAFFIC <i>Ramiz Shikhaliyev</i>	585
NEW GENERATION NETWORKS PERFORMANCE ANALYSIS AND OPTIMIZATION <i>Zaychenko Yuriy, Gasanov Aydin, Galib Hamidov</i>	588

SESSION 6. ICT IN GOVERNANCE, BUSINESS ADMINISTRATION, FINANCE AND ECONOMY

E-SERVICES SECURITY ASSESSMENT MODEL <i>Yadigar Imamverdiyev</i>	595
A FUZZY LOGIC APPROACH TO PREDICT THE BEST FITTED APPAREL SIZE IN ONLINE MARKETING <i>Efendi Nasibov, Alper Vahaplar, Murat Demir, Burak Okur</i>	599
STATIC MODEL OF EQUILIBRIUM PRICES ON MUTUAL DEBTS OF SUBJECTS OF GLOBAL ECONOMY <i>Yadulla Hasanli</i>	603
MODEL EVALUATION OF AN INNOVATIVE CAPITAL <i>Arzu Huseynova, Ophelya Mazanova</i>	607
IMPLEMENTING E-DEMOCRACY IN RUSSIA: INSTITUTIONAL RESOURCES AND MODERNIZATION RISKS <i>Liliia Pankratova, Sergey Pankratov</i>	610
ANALYZE OF RESULTS OF IMPLEMENTATION OF FUZZY-QUERIES AND MATHEMATICAL STRUCTURE OF THE RELATIONAL DATABASE IN CORPORATE INFORMATION SYSTEMS <i>Kenan Kilic Suleyman, Nuray Kilic Bilal, Anar Rustemov Murshud, Tarlan Abdullayev Samad</i>	615
MANAGEMENT OF HIGHER EDUCATION INSTITUTION STAFF ACTIVITY EFFICIENCY ON THE BASIS OF FLEXIBLE STIMULATION SYSTEM <i>Dmitriy Anufriev, Olga Shikulskaya, Kanagat Dyusekeyev, Mikhail Shikulskiy</i>	619
MANAGEMENT OF PUBLIC FINANCES THROUGH THE ELECTRONIC SYSTEMS AND IT'S POSITIVE SIDES <i>Tea Khorguashvili, Tamar Makasarashvili, Giuli Giguashvili, Natia Khorguashvili</i>	624
A CRITICAL ANALYSIS OF ZAMBIA'S E-GOVERNMENT ADOPTION <i>Willard Munyoka, Manoj Maharaj</i>	627
REGULATION OF NATURAL MONOPOLY VIA COMPETITION POLICY <i>Adalat Muradov, Nazim Hajiyev, Fariz Guliyev</i>	633
FEATURES ELECTRONIC PAYMENT SYSTEMS IN THE INFORMATION ECONOMY <i>A.F. Musayev, A.G. Aliyev, E.H. Musayeva</i>	639
SUSTAINABLE DEVELOPMENT OF MANUFACTURING ENTERPRISES BASED ON STRUCTURAL, INFOLOGICAL AND DYNAMIC MODELING <i>R.T. Sirazetdinov, A.V. Samodurov, A.N. Khusnutdinov, E.N. Tarchinskaya</i>	642
HOTSPOT INFORMATION OF PUBLIC OPINION IN E-GOVERNMENT <i>Ramiz Aliguliyev, Günay Niftaliyeva</i>	645
TECHNICAL AND COMMUNICATIONAL STANDARDS OF E-INVOICING <i>Ilknur Gur Nalcaci</i>	647
THE PREDICTION OF THE CHANCE OF SELLING OF HOUSES AS THE FACTOR OF FINANCIAL STABILITY <i>Ceyhun Abbasov</i>	651
USING WEB-BASED GEOINFORMATION TECHNOLOGIES WITHIN MICRO GEO-MARKETING RESEARCHES <i>Milikhin M.M., Gritsenko Y.B., Ekhlakov Yu.P., Zhukovsky O.I., Senchenko P.V.</i>	655
COMPARATIVE ANALYSIS OF STRATEGIES AND TRENDS SHAPING THE INFORMATION ECONOMY OF AZERBAIJAN WITH LEADING COUNTRIES <i>A.G. Aliyev, R.O. Shahverdiyeva, V.A. Abbasova</i>	660

SESSION 7. ICT IN EDUCATION, HUMANITIES, SOCIAL SCIENCES AND RESEARCH

ICT IN HUMANITIES: PHENOMENON OF CORPUS LINGUISTICS <i>Galina Kedrova, Maria Volkova</i>	667
INTERACTIVE WHITEBOARD IN MOTIVATION OF PUPILS OF PRIMARY SCHOOL <i>Gabriel Báñez, Danka Lukáčová, Lukáš Vaněk, Peter Hrubý</i>	672
EXPERT APPROACH TO STATISTICAL ASSESSMENT OF EDUCATION QUALITY: THE CASE OF AZERBAIJAN <i>Sardar Shabanov, Fariz Quliyev</i>	676
INFORMATION SYSTEMS AS A COMPONENT PART OF TERTIARY EDUCATION QUALITY ASSURANCE <i>Alena Hašková</i>	679

AUDIOVISUAL TECHNOLOGIES FOR FOREIGN LANGUAGES TEACHING	
<i>Veronika Pisarenko, Shavadi Arsaliev</i>	684
DEVELOPMENT OF INTELLIGENT LEARNING SYSTEM BASED ON THE ONTOLOGICAL APPROACH	
<i>A.N. Afanasyev, N.N. Voit, D.S. Kanev</i>	690
LORAN-C CYCLE IDENTIFICATION AND ECD ESTIMATION IN PRESENCE OF WHITE GAUSSIAN NOISE	
<i>Ali Kafaei Zad Tehrani, Ali Pourmohammad</i>	694
SIMULATION OF VIRTUAL ENVIRONMENT FOR THE DEVELOPMENT OF TEACHING LABORATORIES	
<i>Kseniia Kuzmina, Anzhela Andreeva</i>	698
THE IMPACT OF PULSE SHAPING FILTERS ON OFDM-BASED VISIBLE LIGHT COMMUNICATIONS	
<i>Omer Narmanlioglu, Murat Uysal, Refik Caglar Kizilirmak</i>	700
THE INFLUENCE AND ROLE OF CAD AND COMPUTER MATHEMATICS IN ENGINEERING EDUCATION	
<i>S.T. Huseynov</i>	704
WEB APPLICATION AS SUPPORT FOR LEARNING METHODOLOGY IN INFORMATICS EDUCATION	
<i>Peter Kuna, Martin Vozár</i>	709
CONSTRUCTION OF INDIVIDUAL EDUCATIONAL TRAJECTORY OF STUDENTS BASED ON E-LEARNING	
<i>Rinat R. Ibatullin, Ellina S. Anisimova</i>	714
PROFESSIONAL TRAINING IN EMBEDDED SYSTEMS AND ITS PROMOTION	
<i>Alena Hašková, Dirk Van Merode</i>	718
IMPACT FACTOR PENALIZED BY SELF-CITATIONS	
<i>Rasim Alguliyev, Ramiz Aliguliyev, Nigar Ismayilova</i>	723
DEVELOPMENT OF THE VIRTUAL PHYSICAL LABORATORY WORK “FRANCK-HERTZ EXPERIMENT”	
<i>Madina Ipalakova, Yevgeniya Daineko, Mariya Brodyagina, Marina Yunnikova, Zhiger Bolatov, Yermek Yessenov</i>	727
SEMI-AUTOMATIC ANNOTATION TOOL FOR SIGN LANGUAGES	
<i>Kairat Aitpayev, Shynggys Islam, Alfarabi Imashev</i>	731
EDUCATION OF GONIOMETRIC FUNCTIONS WITH MATLAB SOFTWARE	
<i>Lucia Rumanová, Viliam Ďuriš</i>	735
GEOMETRY SOFTWARE CABRI 3D IN TEACHING STEREOMETRY	
<i>Dusan Vallo, Julia Zahorska</i>	739
MATHEMATICAL AND COMPUTER MODELING OF THE PROCESS OF GROUNDWATER POLLUTION	
<i>Vladimir Krivykh, Zhanar Beldeubayeva, Saule Rakhmetullina</i>	743
ELECTRONIC SCIENCE IN AZERBAIJAN: CURRENT STATUS, PROBLEMS AND PERSPECTIVES	
<i>Rasim M.Alguliyev, Rashid Q.Alakbarov, Tahmasib Kh.Fataliyev</i>	746
THE POSSIBILITIES OF USING EXPERIMENTS IN EDUCATION OF SPECIAL TECHNICAL SUBJECTS	
<i>Gabriel Báñez, Danka Lukáčová, Jana Depešová, Lukáš Vaněk</i>	751
ARCHITECTURE OF SMART LEARNING COURSES IN HIGHER EDUCATION	
<i>Elena E. Merzon, Rinat R. Ibatullin</i>	755
EVOLUTION OF DYNAMIC USER MODELS FOR ADAPTIVE EDUCATIONAL HYPERMEDIA SYSTEM (AEHS)	
<i>Nafisa Abdo, Noureldien A. Noureldien</i>	759
IT IN THE EDUCATIONAL PROGRAMS IN THE FIELD OF: "SAFETY OF PERSON'S ACTIVITY"	
<i>Dmitrieva I.A., Gordienko L.V., Popova O.V.</i>	764
COURSE SCHEDULER AND RECOMMENDATION SYSTEM FOR STUDENTS	
<i>Suleyman Uslu, Can Ozturan, Mehmet Fatih Uslu</i>	768
REWRITING, ACADEMIC FRAUD AND FALSIFICATION: ANALYZING CASES OF ACADEMIC PRACTICE IN ST. PETERSBURG, RUSSIA	
<i>Rekhtina L.S., Pankratova L.S., Sokolov N.V., Karimov R.N.</i>	774
MATLAB AND HEAT TRANSFER IN SOLID STATE	
<i>Peter Kuna, Martin Vozár</i>	779
VIDEO IN TEACHING	
<i>Veronika Pisarenko, Galina Krasnoshchekova</i>	784

SESSION 8. ICT IN MEDICINE AND HEALTH CARE

DICHOTIC LISTENING TEST IN CASE OF SMALL STIMULUS SET: RANDOM WALK AND SEQUENTIAL WALD ANALYSIS <i>Elena Popova, Evgeny Wasserman, Nikolay Kartashev</i>	793
ASSISTIVE HEALTHCARE HOME MONITORING SYSTEM FOR ELDERLY PEOPLE <i>Ali Mubarakov, Yestay Zhengis, Yau Hee Kho</i>	796
AN ADAPTIVE NETWORK-BASED FUZZY INFERENCE SYSTEM FOR ESTIMATING THE DURATION OF MEDICAL SERVICES: A CASE STUDY <i>Ihsan Hakan Koksal, Buse Turkoglu, Mete Eminagaoglu</i>	801
USING FUZZY LOGIC CONCEPTS IN CREATING THE DECISION MAKING EXPERT SYSTEM FOR CARDIO - VASCULAR DISEASES (CVD) <i>Assemgul Duisenbayeva, Iskander Beisembetov, Lyazzat Atymtayeva</i>	807
EFFECT OF FILTER SELECTION ON CLASSIFICATION OF EXTRASYSTOLE HEART SOUNDS VIA MOBILE DEVICES <i>Huseyin Coskun, Tuncay Yigit, Arif Koyun, Omer Deperlioglu</i>	812
DRAG DESIGN OF SULFANILAMIDE BASED ON THE TECHNOLOGY OF IMMUNE NETWORK MODELING AND ONTOLOGICAL APPROACH <i>Samigulina G.A., Samigulina Z.I.</i>	817
GENERATION OF BIOINSPIRED SEARCH PROCEDURES FOR OPTIMIZATION PROBLEMS <i>Vladimir Kureichik, Dmitry Zaporozhets, Daria Zaruba</i>	822
EXPERT SYSTEM FOR PHARMACY <i>Sagdoldanova Aiyim, Atymtayeva Lyazzat</i>	827
UTILIZING FUZZY COLORED PETRI-NETS TO MONITOR CARDIAC PACEMAKER BEHAVIOR <i>Negar Majma, Seyed Morteza Babamir, Amirhassan Monadjemi</i>	832
THE MESOTHELIOMA DISEASE DIAGNOSIS WITH ARTIFICIAL INTELLIGENCE METHODS <i>Hamza Osman Ilhan, Enes Celik</i>	837
EXPERIENCE OF USING OF MACHINE LEARNING METHODS TO IDENTIFY THE LEFT VENTRICLE REGION IN ECHOCARDIOGRAPHIC RECORDS <i>A.O. Bobkova, V.V. Zyuzin, S.V. Porshnev, V.V. Bobkov</i>	841
CLASSIFICATION OF BREAST CANCER BY USING PATTERN RECOGNITION TOOLS <i>Laven Wahhab, Kadir Tufan, Shahriar Shamil Uulu</i>	845
SENTIMENT ANALYSIS FOR AGGLUTINATIVE LANGUAGES <i>Esref Adali, Abzetdin Adamov</i>	848