

TABLES OF CONTENTS OF IJ ITK – VOLUME 2

Volume 2, Number 1

Preface	3
<i>Aleksandr Palagin, Viktor Gladun, Nikolay Petrenko, Vitalii Velychko, Aleksey Sevruk, Andrey Mikhailyuk</i>	
Informational Model of Natural Language Processing	5
<i>Maria Nickolova, Eugene Nickolov</i>	
Hardware-based and Software-based Security in Digital Rights Management Solutions.....	7
<i>Margarita Knyazeva, Dmitry Volkov</i>	
Management of Information on Program Flow Analysis.....	11
<i>Elena Sidorova, Yury Zagorulko, Irina Kononenko</i>	
Knowledge-Based Approach to Document Analysis.....	17
<i>Adriana Toni, Angel Herranz, Juan Castellanos</i>	
An Effective Method for Constructing Data Structures Solving an Array Maintenance Problem	23
<i>Gennadiy Lbov, Maxim Gerasimov</i>	
Interval Prediction Based on Experts' Statements	29
<i>Galina Rybina, Victor Rybin</i>	
The Experience of Development and Application Perspectives of Learning Integrated Expert Systems in the Educational Process.....	33
<i>Santiago Alonso, Luis Fernández, Fernando Arroyo, Javier Gil</i>	
A Circuit Implementing Massive Parallelism in Transition P Systems.....	35
<i>Ginés Bravo, Luis Fernández , Fernando Arroyo, Juan A. Frutos</i>	
A Hierarchical Architecture with Parallel Communication for Implementing P Systems	43
<i>Juan Alberto Frutos, Luis Fernandez, Fernando Arroyo, Gines Bravo</i>	
Static Analysis of Usefulness States in Transition P Systems	49
<i>Francisco Javier Gil, Luis Fernández, Fernando Arroyo, Jorge Tejedor</i>	
Delimited Massively Parallel Algorithm Based on Rules Elimination for Application of Active Rules in Transition P Systems.....	56
<i>Sandra Gómez, Luis Fernández, Iván García, Fernando Arroyo</i>	
Researching Framework for Simulating/Implementating P Systems	61
<i>Nataliia Kussul, Andrii Shelestov, Mykhailo Korbakov, Oleksii Kravchenko, Serhiy Skakun, Mykola Ilin, Alina Rudakova, Volodymyr Pasechnik</i>	
Grid Infrastructure for Satellite Data Processing in Ukraine	69
<i>Andrii Shelestov, Oleksiy Kravchenko, Mykola Ilin</i>	
Distributed Visualization Systems in Remote Sensing Data Processing Grid.....	76
<i>Alexander Kuzemin, Olesya Dyachenko, Darya Fastova</i>	
Information Supply of Geo-information Systems for the Forecasting Problem of the Avalanche Danger.....	82
<i>Krassimir Markov</i>	
Data Independence in the Multi-dimensional Numbered Information Spaces	87
<i>Julian Vasilev</i>	
How to Use a Desktop Version of a DBMS for Client-Server Applications	95
Table of Contents of Volume 2, Number 1	100

Volume 2, Number 2

<i>Dimitrina Polimirova-Nickolova, Eugene Nickolov</i>	
Analysis of Information Security of Objects under Attacks and Processed by Methods of Compression	103
<i>Jeanne Schreurs, Rachel Moreau</i>	
ICT Security Management.....	110
<i>Denis Kourilov, Lyudmila Lyadova</i>	
Complex Protection System of Metadata-based Distributed Information Systems	116
<i>Krassimir Markov, Krassimira Ivanova, Ilia Mitov, Stefan Karastanov</i>	
Advance of the Access Methods	123
<i>Yevgeniy Bodyanskiy, Nataliya Teslenko</i>	
General Regression Neuro-Fuzzy Network for Identification of Nonstationary Plants	136
<i>Volodymyr Romanov, Volodimir Sherer, Igor Galelyuka, Yevgeniya Sarakhan, Oleksandra Skrypnyk</i>	
Smart Portable Fluorometer for Express-Diagnostics of Photosynthesis: Principles of Operation and Results of Experimental Researches	142
<i>Alexander Djurkov, Justin Cloutier, Martin P. Mintchev</i>	
Mathematical Model and Simulation of a Pneumatic Apparatus for In-Drilling Alignment of an Inertial Navigation Unit during Horizontal Well Drilling	147
<i>Peter Sharlandjiev, Georgi Stoilov</i>	
Modeling Optical Response of Thin Films: Choice of the Refractive Index Dispersion Law	157

<i>Dmitry Cheremisinov, Liudmila Cheremisinova</i>	
Formalization of Interaction Events in Multi-agent Systems.....	159
<i>Ivan Ganchev, M��rtin O'Droma, Damien Meere</i>	
Intelligent Car Parking Locator Service	166
<i>Emiliya Saranova</i>	
Traffic Offered Behaviour Regarding Target QOS Parameters in Network Dimensioning.....	173
<i>Rossitza Goleva, Mariya Goleva, Dimitar Atamian, Tashko Nikolov, Kostadin Golev</i>	
VoIP Traffic Shaping Analyses in Metropolitan Area Networks.....	181
<i>Seferin Mirtchev</i>	
Study of Queueing Behaviour in IP Buffers.....	187
<i>Stoyan Poryazov</i>	
Towards Useful Overall Network Teletraffic Definitions	193
Table of Contents of Volume 2, Number 2	200

Volume 2, Number 3

<i>Vassil Vassilev, Mariana Vassileva, Boris Staykov, Krassimira Genova, Filip Andonov, Plamena Chongova</i>	
MultiDecision-2: A Multicriteria Decision Support System.....	203
<i>Aleksej Voloshin, Maksim Zaporozhets, Pavel Mulesa</i>	
Diagnostic Systems in Medicine as Personal Intellectual Tooling.....	211
<i>Alexander Berman, Olga Nikolaychuk, Alexander Yurin, Alexander Pavlov</i>	
An Intelligent System for Investigations and Provision of Safety for Complex Constructions.....	218
<i>Yuri Zaychenko, Maliheh Esfandiyyarfar</i>	
Optimization of the Investment Portfolio in the Conditions of Uncertainty.....	225
<i>Alexander Kuzemin, Vyacheslav Lyashenko</i>	
Analysis of Spatial-temporal Dynamics in the System of Economic Security of Different Subjects of Economic Management ..	234
<i>Helen Shynkarenko</i>	
The Problems of Forming the Inner Personal Conflict as a Factor which Influences Decision-making	239
<i>Jose Calvo-Manzano, Gonzalo Cuevas, Tom��s San Feliu, Edgar Caballero</i>	
A Small Settings Case Study using TSPi in a Software Project.....	245
<i>Andrii Shelestov, Mykhailo Korbakov, Mykhaylo Zynovyev</i>	
Metadata and Geospatial Data Processing on the Base of XML and Grid	251
<i>Anna Malinova, Snezhana Gocheva-Ilieva</i>	
Using the Business Process Execution Language for Managing Scientific Processes.....	257
<i>Nina Bakanova, Tatiana Atanasova</i>	
Development of the Combined Method for Designing Dataflow Systems.....	262
<i>Anton Tsybin, Lyudmila Lyadova</i>	
Software Testing and Documenting Automation	267
<i>Vyacheslav Lanin</i>	
Architecture and Implementation of Reporting Means in Adaptive Dynamically Extended Information Systems.....	273
<i>Nadezhda Filipova, Filcho Filipov</i>	
An Approach to Representing the Process of Information Business Modeling	277
<i>Sergey Kiprushkin, Sergey Kurskov, Vadim Semin</i>	
Development of Database for Distributed Information Measurement and Control System.....	283
<i>Arsenij Bakanov, Vladislava Grigorova</i>	
An Approach to Designing the Interface of the Automated Documentary System.....	287
<i>Todorka Kovacheva</i>	
The Strategical Impact of Knowledge Markets and Knowledge Management for Small and Medium Enterprises.....	290
<i>Tetiana Palonna, Iurii Palonnyi</i>	
Bivirtual Organization as a Queuing System.....	293
<i>Aygun Alasarrova, Leyla Muradkhanli</i>	
Expert System for Decision-Making Problem in Economics	297
Table of Contents of Volume 2, Number 3	300

Volume 2, Number 4

<i>Nikola Ikonomov, Milena Dobreva</i>	
Creation of a Digital Corpus of Bulgarian Dialects	303
<i>Detelin Luchev, Desislava Paneva, Konstantin Rangochev</i>	
Use of Knowledge Technologies for Presentation of Bulgarian Folklore Heritage Semantics	307
<i>Desislava Paneva, Lilia Pavlova-Draganova, Lubomil Draganov</i>	
Towards Content-Sensitive Access to the Artefacts of the Bulgarian Iconography	313
<i>Juan Bekios, Igor Boguslavsky, Jes��s Carde��nosa, Carolina Gallardo</i>	
Automatic Creation of Lexical Resources for an Interlingua-based System	318
<i>Velina Slavova, Werner Verhelst, Hichem Sahli</i>	
A Cognitive Science Reasoning in Recognition of Emotions in Audio-Visual Speech	324

<i>Krassimir Markov, Stoyan Poryazov, Krassimira Ivanova, Ilia Mitov, Vera Markova</i>	
Culture Aspects of Inforaction	335
<i>Abdelmgeid Amin Aly</i>	
Using a Query Expansion Technique to Improve Document Retrieval	343
<i>Angel Castellanos, Marita Esteban, Ana Martinez, Valentin Palencia</i>	
Aplications of Neural Networks to Find the Impact of Water in Different Berry Components in Grapes	348
<i>Álvaro Castro Castilla, Nuria Gómez Blas</i>	
Self-organizing Map and Cellular Automata Combined Technique for Advanced Mesh Generation in Urban and Architectural Design	354
<i>Jesús Cardeñosa, Pilar Rey</i>	
Lack of Answer Estimation by Fuzzy Control	360
<i>Nadezhda Kiselyova, Shuichi Iwata, Victor Dudarev, Ilya Prokoshev, Valentin Khorbenko, Victor Zemskov</i>	
Integration Principles of Russian and Japanese Databases on Inorganic Materials.....	366
<i>Dmitry Kinoshenko, Sergey Mashtalir, Konstantin Shcherbinin, Elena Yegorova</i>	
Image Quotient Set Transforms in Segmentation Problems	372
<i>Yonatan Shoshan, Alexander Fish, Xin Li, Graham Jullien, Orly Yadid-Pecht</i>	
VLSI Watermark Implementations and Applications	379
<i>Mikhail Bondarenko, Ekaterina Solovyova, Dmitriy Elchaninov</i>	
Systemological Bases of Management Consulting	387
<i>Todorka Kovacheva</i>	
Automated System for Effective Internet Marketing Campaign (ASEIMC)	391
<i>Timofey Ryabtsev, Elena Antonova</i>	
The Model of Unreliable Elements (Human Resources) Intellectual Management System on the Basis of Their Psychological and Personal Characteristics.....	394
Table of Contents of Volume 2, Number 4	400

Volume 2, Number 5

<i>Laura Ciocoiu, Ionuț Petre, Dragoș Smada, Dragoș Nicolau</i>	
Web Interfaces Destined for People with Disabilities	403
<i>Anna Devreni-Koutsouki</i>	
Electronic Presentation of Bulgarian Educational Archives: an Ontology-Based Approach	407
<i>Yuriy Bezgachnyuk, Leonid Zamikhovskyy, Roman Matviyenko, Larysa Savyuk</i>	
Complex Adaptive On-line Learning System "Theory of Automatic Control"	414
<i>Antonio Ortega, Rubén Álvarez</i>	
Automating Exercises Validation in e-Learning Environments.....	421
<i>Larissa Kuzemina</i>	
Special Features of Musical Education in Distant Learning (Training of Intonation Thinking)	426
<i>George Totkov, Daniel Denev, Rositsa Doneva, Mariana Sokolova</i>	
Collaborative Learning and Authoring in the Frame of e-Projects.....	431
<i>Gloria Sánchez-Torrubia, Carmen Torres-Blanc, Víctor Giménez-Martínez</i>	
An eMathTeacher Tool for Active Learning Fleury's Algorithm	437
<i>Tsvetanka Kovacheva</i>	
Using Physical Quantities in Applied Mathematical Problems with Maple	443
<i>Evgeny Eremin</i>	
About Ontology Application to the Description of Syllabus	449
<i>Larisa Zainutdinova, Anatoly Korablin, Roman Lidgi Goryayev</i>	
Innovation Educational Programme "Marine Engineer"	455
<i>Maxim Poliskiy</i>	
The Methods of Conducting Studies with the Application of Combined Didactic Interactive Programme Systems.....	459
<i>Elena Prisyazhnyuk</i>	
Fuzzy Model of the Automated System of Module Knowledge Control	465
<i>Olga Lyubova, Natalia Luybova</i>	
Peculiarities of the Electronic Educational and Methodological Complex under the Point-rating Technology.....	468
<i>Oleg Avrunin, Liliya Aver'yanova, Valery Golovenko, Olga Sklyar</i>	
The Experience Software-based Design of Virtual Medical Intrascopy Systems for Simulation Study.....	470
<i>Ivan Ganchev, Stanimir Stojanov, Máirtín O'Droma, Damien Meere</i>	
InfoStation-based Adaptable Provision of m-Learning Services: Main Scenarios	475
<i>Viktor Bondarenko</i>	
Technology of Satellite and Mobile Communication in Modern Distance Education	482
<i>Ludmila Lyadova, Alexey Urezalov, Andrey Khlyzov</i>	
Implementation of Distant Learning Portals based on CASE-technology METAS	489
Tables of Contents of IJ ITK – Volume 2	496
Authors' Index.....	499
Table of Contents of Volume 2, Number 5	500