

TABLE OF CONTENTS OF VOLUME 12, NUMBER 1

Preface	3
Filtered Networks of Evolutionary Processors	5
<i>Luis Fernando de Mingo López, Eugenio Santos Menéndez, Francisco Gisbert</i>	
Digitisation of Cultural Heritage: between EU Priorities and Bulgarian Realities	12
<i>Milena Dobрева, Nikola Ikonov</i>	
Classification of Biomedical Signals using the Dynamics of the False Nearest Neighbours (DFNN) Algorithm ...	18
<i>Charles Newton Price, Renato J. de Sobral Cintra, David T. Westwick, Martin Mintchev</i>	
Bottleneck Problem Solution using Biological Models of Attention in High Resolution Tracking Sensors	29
<i>Alexander Fish, Orly Yadid-Pecht</i>	
Examination of Passwords' Influence on the Compressing Process of Non-Encrypted Objects	35
<i>Dimitrina Polimirova-Nickolova, Eugene Nickolov</i>	
Conceptual Idea of Identification of Patterns and Problem Solving in the Human's Memory and the Possibilities to Use it in Artificial Intelligent	41
<i>Zinoviy Rabynovych</i>	
Model Construction and Research using System Compositional Approach on Natural Hierarchical Neural Networks. Development of Computer Toolbox	49
<i>Yuriy Belov, Sergiy Tkachuk, Roman Iamborak</i>	
Exploration by Means of Computer Simulation of Nonlinear Hierarchical Structure of Neuronal Memory on the Model of Olfactory Bulb	57
<i>Yuriy Belov, Sergiy Tkachuk, Roman Iamborak</i>	
SCIT — Ukrainian Supercomputer Project	63
<i>Valeriy Koval, Sergey Ryabchun, Volodymyr Savyak, Ivan Sergienko, Anatoliy Yakuba</i>	
New Knowledge Obtaining in Structural-predicate Models of Knowledge	69
<i>Valeriy Koval, Yuriy Kuk</i>	
Cluster Management Processes Organization and Handling	78
<i>Valeriy Koval, Sergey Ryabchun, Volodymyr Savyak, Anatoliy Yakuba</i>	
An Analysis of Some Relations Among Domain Ontologies	85
<i>Alexander Kleshchev, Irene Artemjeva</i>	
Methods of Adaptive Extraction and Analysis of Knowledge for Knowledge-base Construction and Fast Decision Making	93
<i>Alexander Kuzemin, Darya Fastova, Igor Yanchevsky</i>	
Table of Contents of Volume 12, Number 1	100