

TABLE OF CONTENTS

| | |
|---|-----|
| <i>Polynomial Regression Using a Perceptron with Axo-axonic Connections</i> | |
| Nuria Gómez Blas, Luis F. de Mingo, Alberto Arteta..... | 103 |
| <i>Spreading the Moore - Penrose Pseudo Inverse on Matrices Euclidean Spaces: Theory and Applications</i> | |
| Volodymyr Donchenko, Fedir Skotarenko..... | 115 |
| <i>Towards a Semantic Catalog of Similarity Measures</i> | |
| Alfredo Sánchez-Alberca, Rafael Lahoz-Beltra and Juan Castellanos-Peñuela..... | 124 |
| <i>Constrained Object-Characterization Tables and Algorithms</i> | |
| Hasmik Sahakyan..... | 136 |
| <i>An Approach to the Modeling of the Cognitive Ability Managing the Focus of Attention on The Basis of the Reflexive Mechanism of the System</i> | |
| Olga Nevzorova, Vladimir Nevzorov..... | 145 |
| <i>Dynamic Integrated Expert Systems: The Evolution of AT-Technology Workbench</i> | |
| Galina Rybina, Victor Rybin..... | 155 |
| <i>Impact of Subpixel Paradigm on Determination of 3D Position from 2D Image Pair</i> | |
| Lukas Sroba, Rudolf Ravas..... | 162 |
| <i>Analysis of the Properties of Ordinary Levy Motion Based on the Estimation of Stability Index</i> | |
| Lyudmyla Kirichenko, Vadim Shergin..... | 170 |
| <i>Building Preconditioners Using Basis Matrix Method</i> | |
| Volodymyr Kudin, Vsevolod Bohaienko..... | 182 |
| <i>Информационная технология распознавания зданий на спутниковых изображениях с помощью нечетких нейронных сетей</i> | |
| Светлана Надеран..... | 188 |
| <i>The Analysis of Neural Networks' Performance for Medical Image Classification</i> | |
| Kateryna Malyshevska..... | 194 |
| Table of contents..... | 200 |