

TABLE OF CONTENTS

Improving Active Rules Performance in New P System Communication Architectures	
Juan Alberto de Frutos, Luis Fernández, Carmen Luengo, Alberto Arteta	3
Implementing Transition P Systems	
Santiago Alonso, Luis Fernández, Víctor Martínez.....	18
Membrane Computing: Non Deterministic Technique to Calculate Extinguished Multisets of Objects	
Alberto Arteta, Angel Castellanos, Ana Martinez	30
Linear Program Form for Ray Different Discrete Tomography	
Hasmik Sahakyan, Levon Aslanyan	41
Pigmented Rat-based Vision for Artificial Intelligence Applications	
Francisco J. Cisneros de los Rios , Isabel Martín Moreno-Cid , Abel Sanchez-Jimenez ,	
Juan Castellanos, Fivos Panetsos	51
Varieties of Biological Information: A Molecular Recognition Approach to Systems Biology and Bioinformatics	
Jorge Navarro, Ángel Goñi-Moreno & Pedro C. Marijuán	56
Self-Assembly Process for Integrated Circuits Based on Carbon Nanotubes Using Microfluidic Devices	
David Moreno, Sandra Gómez, Paula Cordero	67
Large VLSI Arrays – Power and Architectural Perspectives	
Adam Teman, Orly Yadid-Pecht and Alexander Fish	76
Research Portal “Regions’ Innovative Development”	
Lyudmila Lyadova, Zhanna Mingaleva, Natalia Frolova	89
ITHEA International Scientific Society	95
ITHEA IJ and IBS Sample Sheet for Preparing the Manuscripts.....	96
Table of Contents.....	100