
Contents

Deterministic Solutions to QSAT and Q3SAT by Spiking Neural P Systems with Pre-Computed Resources <i>T.-O. Ishdorj, A. Leporati, L. Pan, X. Zeng, X. Zhang</i>	1
On the Power of Insertion P Systems of Small Size <i>A. Krassovitskiy</i>	29
Simulation of Recognizer P Systems by Using Manycore GPUs <i>M.A. Martínez-del-Amor, I. Pérez-Hurtado, M.J. Pérez-Jiménez, J.M. Cecilia, G.D. Guerrero, J.M. García</i>	45
Sleep-Awake Switch with Spiking Neural P Systems: A Basic Proposal and New Issues <i>J.M. Mingo</i>	59
The Computational Complexity of Uniformity and Semi-uniformity in Membrane Systems <i>N. Murphy, D. Woods</i>	73
Structured Modeling with Hyperdag P Systems: Part A <i>R. Nicolescu, M.J. Dinneen, Y.-B. Kim</i>	85
Spiking Neural P Systems and Modularization of Complex Networks from Cortical Neural Network to Social Networks <i>A. Obtulowicz</i>	109
The Discovery of Initial Fluxes of Metabolic P Systems <i>R. Pagliarini, V. Manca</i>	115
New Normal Forms for Spiking Neural P Systems <i>L. Pan, Gh. Păun</i>	127
Spiking Neural P Systems with Anti-Spikes <i>L. Pan, Gh. Păun</i>	139

Spiking Neural P Systems with Neuron Division and Budding <i>L. Pan, Gh. Păun, M.J. Pérez-Jiménez</i>	151
Efficiency of Tissue P Systems with Cell Separation <i>L. Pan, M.J. Pérez-Jiménez</i>	169
Some Open Problems Collected During 7th BWMC <i>Gh. Păun</i>	197
A Bibliography of Spiking Neural P Systems <i>Gh. Păun</i>	207
Introducing a Space Complexity Measure for P Systems <i>A.E. Porreca, A. Leporati, G. Mauri, C. Zandron</i>	213
Parallel Graph Rewriting Systems <i>D. Sburlan</i>	225
About the Efficiency of Spiking Neural P Systems <i>J. Wang, T.-O. Ishdorj, L. Pan</i>	235
Author index	253