
Contents

Beyond Generalized Multiplicities:	
Register Machines over Groups	
<i>A. Alhazov, R. Freund, S. Ivanov</i>	1
(Tissue) P Systems with Anti-Membranes	
<i>A. Alhazov, R. Freund, S. Ivanov</i>	29
P Systems: from Anti-Matter to Anti-Rules	
<i>A. Alhazov, R. Freund, S. Ivanov, M.J. Pérez-Jiménez</i>	41
Membrane Systems with Priority, Dissolution, Promoters and Inhibitors and Time Petri Nets	
<i>P. Battyányi, G. Vaszil</i>	59
Further Results on the Power of Generating APCol Systems	
<i>L. Ciencialová, L. Cienciala, E. Csuhaj-Varjú</i>	79
Playing with Derivation Modes and Halting Conditions	
<i>R. Freund</i>	91
Simulating counting oracles with cooperation	
<i>A. Leporati, L. Manzoni, G. Mauri, A.E. Porreca, C. Zandron</i>	109
A new perspective on computational complexity theory in Membrane Computing	
<i>D. Orellana-Martín, L. Valencia-Cabrera,</i>	
<i>A. Riscos-Núñez, M.J. Pérez-Jiménez</i>	117
An apparently innocent problem in Membrane Computing	
<i>D. Orellana-Martín, L. Valencia-Cabrera,</i>	
<i>A. Riscos-Núñez, M.J. Pérez-Jiménez</i>	127
A syntax for semantics in P-Lingua	
<i>I. Pérez-Hurtado, D. Orellana-Martín,</i>	
<i>A. Riscos-Núñez, M.J. Pérez-Jiménez</i>	139
Search Based Software Engineering in Membrane Computing	
<i>A. Turlea, M. Gheorghe, F. Ipate</i>	151

New applications for an old tool <i>L. Valencia-Cabrera, D. Orellana-Martín, I. Pérez-Hurtado, M.J. Pérez-Jiménez.....</i>	165
The DBSCAN Clustering Algorithm on P Systems <i>G. Vaszil</i>	171
Author Index	179