

Table of Contents

Membrane Systems with Coupled Transport: Universality and Normal Forms <i>Carlos Martn-Vide, Andrei Paun, Gheorghe P aun and Grzegorz Rozenberg</i>	1-15
P Systems with Replicated Rewriting and Stream X-Machines (Eilenberg Machines) <i>Joaquín Aguado, Tudor Balanescu, Tony Cowling, Marian Gheorghe, Mike Holcombe and Florentin Ipate</i>	17-33
The Relevance of Cell Membranes for P Systems. General Aspects <i>Ioan I. Ardelean</i>	35-43
Recursive Calculus with Membranes <i>Adrian Atanasiu and Carlos Martn-Vide</i>	45-59
P System Software Simulator <i>Gabriel Ciobanu and Dorin Paraschiv</i>	61-66
Gene Expression by Software Mechanisms <i>Gabriel Ciobanu, Bogdan Tanasa</i>	67-80
GP Systems with Forbidding Context <i>Rudolf Freund and Marion Oswald</i>	81-102
A Direct Construction of a Universal P System <i>Pierluigi Frisco, Hendrik Jan Hoogeboom and Paul Sant</i>	103-122
The Topological Structures of Membrane Computing <i>Jean-Louis Giavitto and Olivier Michel</i>	123-145
The Bhopalator: An Information/Energy Dual Model of the Living Cell (II) <i>Sungchul Ji</i>	147-165
On the Power of P Systems with Contextual Rules <i>S.N. Krishna, K. Lakshmanan, R. Rama</i>	167-178
Contextual P Systems <i>Kamala Krithivasan and Mutyam Madhu</i>	179-189
Closure Properties of Multiset Language Families <i>Manfred Kudlek and Victor Mitrana</i>	191-203
DNA and Membrane Algorithms for SAT <i>Vincenzo Manca</i>	205-221

Membranes Versus DNA <i>Solomon Marcus</i>	223-227
On the Power of P Systems with DNA-Worm-Objects <i>Jos L. Mat, A. Rodriguez-Patn and Andrs Silva</i>	229-239
A C Library for Simulating P Systems <i>Dan V Nicolau Jr, Gerardin Solana, Florin Fulga and Dan V Nicolau</i>	241-248
Simulations of Photosynthesis by a K-Subset Transforming System with Membrane <i>Taishin Yasunobu Nishida</i>	249-259
A Formalization of Transition P Systems <i>Mario J. Prez-Jimnez and Fernando Sancho-Caparrini</i>	261-272
Simulating Turing Machines by P Systems with External Output <i>Ivaro Romero-Jimnez and Mario J. Prez-Jimnez</i>	273-278