

CONTENTS

Preface		v
Chapter 1	Finite Array Automata and Regular Array Grammars <i>A. Atanasiu, K. G. Subramanian, K. Rangarajan and P. S. P. Wang</i>	1
Chapter 2	L-Convex Polyominoes: A Survey <i>G. Castiglione and A. Restivo</i>	17
Chapter 3	On Oriented Labelling Parameters <i>D. Gonçalves, A. Raspaud and M. A. Shalu</i>	34
Chapter 4	On a Variant of Parallel Communicating Grammar Systems with Communication by Command <i>E. Csuhaj-Varjú and Gy. Vaszil</i>	46
Chapter 5	Some Remarks on Homogeneous Generating Networks of Free Evolutionary Processors <i>J. Dassow, C. Martín-Vide and V. Mitrana</i>	65
Chapter 6	Hexagonal Contextual Array P Systems <i>K. S. Dersanambika, K. Krithivasan, H. K. Agarwal and J. Gupta</i>	79
Chapter 7	A q-Analogue of the Parikh Matrix Mapping <i>Ö. Eğecioğlu and O. H. Ibarra</i>	97
Chapter 8	Contextual Array Grammars <i>R. Freund, Gh. Paun and G. Rozenberg</i>	112
Chapter 9	Characterizing Tractability by Cell-Like Membrane Systems <i>M. A. Gutiérrez-Naranjo, M. J. Pérez-Jiménez, A. Riscos-Núñez, F. J. Romero-Campero and A. Romero-Jiménez</i>	137
Chapter 10	A Cosmic Muse <i>T. Head</i>	155
Chapter 11	Sublogarithmically Space-Bounded Alternating One-Pebble Turing Machines with only Universal States <i>K. Inoue, A. Ito and A. Inoue</i>	160
Chapter 12	Verification of Clock Synchronization in TTP <i>K. Kalyanasundaram and R. K. Shyamasundar</i>	176

Chapter 13	Triangular Pasting System <i>T. Kalyani, K. Sasikala, V. R. Dare, P. J. Abisha and T. Robinson</i>	195
Chapter 14	Towards Reducing Parallelism in P Systems <i>S. N. Krishna and R. Rama</i>	212
Chapter 15	Iteration Lemmata for Rational, Linear, and Algebraic Languages Over Algebraic Structures with Several Binary Operations <i>M. Kudlek</i>	225
Chapter 16	The Computational Efficiency of Insertion Deletion Tissue P Systems <i>K. Lakshmanan and R. Rama</i>	234
Chapter 17	Petri Nets, Event Structures and Algebra <i>K. Lodaya</i>	245
Chapter 18	Pattern Generation and Parsing by Array Grammars <i>K. Morita, J.-S. Qi and K. Imai</i>	259
Chapter 19	Anchored Concatenation of MSCs <i>M. Mukund, K. Narayan Kumar, P. S. Thiagarajan and S. Yang</i>	273
Chapter 20	Simple Deformation of 4D Digital Pictures <i>A. Nakamura</i>	288
Chapter 21	Probabilistic Inference in Test Tube and its Application to Gene Expression Profiles <i>Y. Sakakibara, T. Yokomori, S. Kobayashi and A. Suyama</i>	303
Chapter 22	On Languages Defined by Numerical Parameters <i>A. Salomaa</i>	319
Chapter 23	An Application of Regular Tree Grammars <i>P. Shankar</i>	336
Chapter 24	Digitalization of Kolam Patterns and Tactile Kolam Tools <i>S. Nagata and R. Thamburaj</i>	353
Chapter 25	Hexagonal Array Acceptors and Learning <i>D. G. Thomas, M. H. Begam, N. G. David and C. de la Higuera</i>	363
Chapter 26	Pollard's Rho Split Knowledge Scheme <i>M. K. Viswanath and K. P. Vidya</i>	378
Chapter 27	Characterizations for Some Classes of Codes Defined by Binary Relations <i>D. L. Van and K. V. Hung</i>	390