

Table of contents

Preface	<i>i</i>
One Mathematician's Tour from Biology into Computing and Back to Life	<i>1</i>
<i>Tom Head</i>	
An Overview of Computation in Cellular Automata	<i>7</i>
<i>Wim Hordijk</i>	
On DNA Computing	<i>17</i>
<i>R. Rama</i>	
On the Computational Aspects of Splicing Operation	<i>31</i>
<i>L. Jeganathan</i>	
A Glimpse of Membrane Computing	<i>49</i>
<i>Kamala Krithivasan</i>	
Peptide Computing: A Survey	<i>63</i>
<i>M. Sakthi Balan, Helmut Jürgensen and Kamala Krithivasan</i>	
An Introduction to Evolutionary Computation	<i>77</i>
<i>Wim Hordijk</i>	
From Molecular Computing to Modelling with Conformons and Computing by Observation	<i>85</i>
<i>Pierluigi Frisco</i>	
An Overview of Recent Results in Contextual Grammars for MCS Formalisms	<i>103</i>
<i>K. Lakshmanan</i>	
Watson-Crick L Systems	<i>113</i>
<i>K.G. Subramanian</i>	
Network of Evolutionary Processors, Past, Present and Future	<i>119</i>
<i>Ashish Choudhary</i>	
Tissue-Like P Systems Communicating by Request*	<i>143</i>
<i>Erzsébet Csuhaj-Varjú, Gheorghe Păun and György Vaszil</i>	
Array-Rewriting P systems with Conditional Communication	<i>155</i>
<i>S. Hemalatha, K.S. Dersanambika, K.G. Subramanian and C. Sri Hari Nagore</i>	

Descriptional Complexity of h-alternating Finite Automata	<i>J.Kavitha and G.Sethuraman</i>	161
On the Efficiency of a Variant of P Systems with Mobile Membranes	<i>S.N. Krishna</i>	171
An Infinite Hierarchy for Some Variants of P Systems	<i>S.N. Krishna and R. Rama</i>	179
Tissue P Systems with Leftmost Derivation	<i>Madhu Mutyam and Kamala Krithivasan</i>	187
Hexagonal Array Splicing Systems	<i>D.G. Thomas, M.H. Begam and N.G. David</i>	197
A Note on Molecular Computing algorithms for finding the Shortest Path with Forbidden Pairs	<i>R. Ramkumar, P. Shrivatsav and S. Krishna Kumar</i>	209
A Note on Peptide Computing Solution for the NP-Complete Edge Coloring Problem	<i>R. Rahul and Suneeth Reddy</i>	215
A note on DNA and Peptide Computing: Knapsack Problem	<i>B. Naveen Kumar, Anshu Bhatia and Sourav Chatterjee</i>	221
Author Index		225