

# Table of Contents

<b>Bibliography of Grzegorz Rozenberg</b> .....	XIII
---	------

---

## I Words, Languages, Automata

---

Balanced Grammars and Their Languages .....	3
<i>Jean Berstel (Université Marne-la-Vallée), Luc Boasson (Université Denis-Diderot)</i>	
Safety and Liveness Properties for Real Traces and a Direct Translation from LTL to Monoids .....	26
<i>Volker Diekert (Universität Stuttgart), Paul Gastin (Université Paris 7)</i>	
The Delta Operation: From Strings to Trees to Strings.....	39
<i>Joost Engelfriet (Leiden University)</i>	
Infinite Solutions of Marked Post Correspondence Problem .....	57
<i>Vesa Halava (University of Turku), Tero Harju (University of Turku)</i>	
The Branching Point Approach to Conway's Problem.....	69
<i>Juhani Karhumäki (University of Turku), Ion Petre (University of Turku)</i>	
A Survey of Some Quantitative Approaches to the Notion of Information .	77
<i>Aldo de Luca (Università di Roma "La Sapienza")</i>	
Nondeterministic Trajectories.....	96
<i>Alexandru Mateescu (University of Bucharest), Arto Salomaa (University of Turku)</i>	
Binary Patterns in Infinite Binary Words .....	107
<i>Antonio Restivo (University of Palermo), Sergio Salemi (University of Palermo)</i>	

---

## II Graph Transformations

---

A Sight-seeing Tour of the Computational Landscape of Graph Transformation .....	119
<i>Hans-Jörg Kreowski (University of Bremen)</i>	

Local Action Systems and DPO Graph Transformation . . . . . 138  
*Dirk Janssens (University of Antwerp)*

Bisimulation Equivalences for Graph Grammars . . . . . 158  
*Paolo Baldan (University of Pisa), Andrea Corradini (University of Pisa), Ugo Montanari (University of Pisa)*

### III Petri Nets

High-Level Net Processes . . . . . 191  
*Hartmut Ehrig (Technical University of Berlin), Kathrin Hoffmann (Technical University of Berlin), Julia Padberg (Technical University of Berlin), Paolo Baldan (University of Pisa), Reiko Heckel (University of Paderborn)*

Petri Net Control for Grammar Systems . . . . . 220  
*Maurice ter Beek (Leiden University), Jetty Kleijn (Leiden University)*

Regular Event Structures and Finite Petri Nets: A Conjecture . . . . . 244  
*P.S. Thiagarajan (National University of Singapore)*

### IV Concurrent Computing

Towards Team-Automata-Driven Object-Oriented Collaborative Work . . . . . 257  
*Gregor Engels (University of Paderborn), Luuk Groenewegen (Leiden University)*

Grammars as Processes . . . . . 277  
*Javier Esparza (University of Edinburgh)*

Temporal Concurrent Constraint Programming: Applications and Behavior . . . . . 298  
*Mogens Nielsen (University of Aarhus), Frank D. Valencia (University of Aarhus)*

### V Molecular Computing

Rewriting P Systems with Conditional Communication . . . . . 325  
*Paolo Bottoni (University of Rome “La Sapienza”), Anna Labella (University of Rome “La Sapienza”), Carlos Martín-Vide (Rovira i Virgili University), Gheorghe Păun (Romanian Academy)*

An Aqueous Algorithm for Finding the Bijections Contained in a Binary Relation . . . . . 354  
*Tom Head (Binghamton University)*

Upper Bounds for Restricted Splicing . . . . .	361
<i>Hendrik Jan Hoogeboom (Leiden University), Nikè van Vugt (Leiden University)</i>	
Codes, Involutions, and DNA Encodings . . . . .	376
<i>Lila Kari (University of Western Ontario), Rob Kitto (University of Western Ontario), Gabriel Thierrin (University of Western Ontario)</i>	
DNA Manipulations in Ciliates . . . . .	394
<i>David M. Prescott (University of Colorado)</i>	
<i>A Magic Pot: Self-assembly Computation Revisited . . . . .</i>	<i>418</i>
<i>Takashi Yokomori (Waseda University), Yasubumi Sakakibara (Tokyo Denki University), Satoshi Kobayashi (University of Electro-Communications)</i>	
<b>Author Index . . . . .</b>	<b>431</b>