

TABLE OF CONTENTS

Publications of Aristid Lindenmayer	XI
Lois A. Abbott Investigations into <u>Drosophila</u> Wing Development - Results from a Lindenmayer Model	1
Jean Berstel Fibonacci Words - A Survey	13
Jack W. Carlyle, Sheila A. Greibach and Azaria Paz Planar Map Generation by Parallel Binary Fission/Fusion Grammars	29
A. Černý and J. Gruska Modular Trellises	45
K. Culik II and J. Karhumäki A New Proof for the DOL Sequence Equivalence Problem and its Implications	63
Jürgen Dassow On Compound Lindenmayer Systems	75
H. Ehrig and A. Habel Graph Grammars with Application Conditions	87
Joost Engelfriet The ETOL Hierarchy is in the OI Hierarchy	101
Ralph O. Erickson Polyhedral Cell Shapes	111
T. Harju On Cyclically Overlap-Free Words in Binary Alphabets	123
Cornelia Harte The Theoretical Basis of the Transplantation Experiment	131
Tom Head and Barbara Lando Fixed and Stationary ω -Words and ω -Languages	147
M. Ito and G. Thierrin DOL Schemes and Recurrent Words	157
H. Jürgensen and D.E. Matthews Stochastic OL Systems and Formal Power Series	167
A. Kelemenová Complexity of L-Systems	179

Youichi Kobuchi Compartmental Hybrid State Production-Diffusion Systems with Application to Prestalk-Prespore Pattern Regulation in Cellular Slime Molds	193
Robert W. Korn Hierarchical Aspects of Plant Development	207
Hans-Jörg Kreowski Rule Trees Represent Derivations in Edge Replacement Systems .	217
Manfred Kudlek Languages Defined by Indian Parallel Systems	233
Klaus-Jörn Lange L Systems and NLOG-Reductions	245
M. Latteux and A. Terlutte The Parikh-Boundedness of ETOL Languages of Finite Index . . .	253
J. van Leeuwen and R.B. Tan Computer Networks with Compact Routing Tables	259
Hermann B. Lück and Jacqueline Lück Unconventional Leaves	275
Brian H. Mayoh A Uniform Model for the Growth of Biological Organisms: Cooperating Sequential Processes	291
Manfred Nagl Graph Technology Applied to a Software Project	303
A. Nakamura, A. Lindenmayer and K. Aizawa Some Systems for Map Generation	323
Mogens Nielsen A Programming Language for Lindenmayer Systems	333
Hidenosuke Nishio A Note on Significance of Cellular Interaction in L-System . .	345
Thomas Ottmann and Derick Wood EOL Grammars and Search Trees	349
D.F. Robinson Variation in Inflorescence Structure in <i>Cotoneaster Franchetti</i>	361
Azriel Rosenfeld Partial Path Groups and Parallel Graph Contractions	369
Grzegorz Rozenberg and Arto Salomaa When L was Young	383
Keijo Ruohonen Equivalence Problems for Regular Sets of Word Morphisms	393
Walter J. Savitch Parentheses Grammars and Lindenmayer Grammars	403

Rani Siromoney	
Array Languages and Lindenmayer Systems - A Survey	413
Sven Skyum and Ole Eriksen	
Symmetric Distributed Termination	427
Paul M.B. Vitány	
Development, Growth and Time	431
Emo Welzl	
On the Set of all Subgraphs of the Graphs in a Boundary NLC Graph Language	445
Takashi Yokomori	
Graph-Controlled Systems - An Extension of OL Systems	461