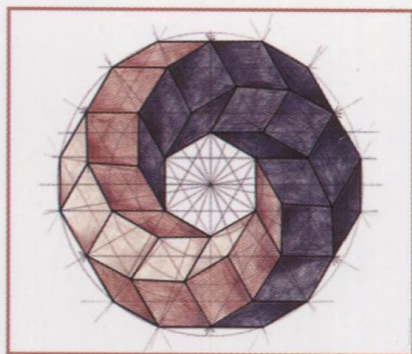



AUTOMATA, GRAPHS AND LOGIC



Editors

D. Gnanaraj Thomas | Robinson Thamburaj

AUTOMATA, GRAPHS AND LOGIC are three key areas of current research in theoretical computer science and discrete mathematics. This book addresses important issues like automata and verification, automata and computational complexity, connections among automata, logic and graphs, applications of logic in software testing and certain interesting results on these topics. Exhibiting interconnections among these topics are of great benefit to the students, teachers and research community.

 **Narosa**
Publishing House
www.narosa.com



Automata Models for Verification of Services with Unboundedly Many Clients	1.1
<i>R Ramanujam and S Sheerazuddin</i>	
Logic as Regular Behavior	2.1
<i>Kamal Lodaya</i>	
Verification, Automata, and Learning	3.1
<i>Deepak D'Souza, P. Ezudheen and Ullas Aparanji</i>	
Logic in Software Testing	4.1
<i>Meenakshi D'Souza</i>	
Checking MSO Definable Properties on Classes of Finite Graphs with Bounded Tree Width	5.1
<i>M. Praveen</i>	
Connections between Automata Theory and Computational Complexity	6.1
<i>Meena Mahajan</i>	
Words, Subwords and Parikh Matrices	7.1
<i>K.G. Subramanian</i>	
Random Grid Schemes with High Information Rate	8.1
<i>Neil Buckley and Atulya K. Nagar</i>	
Rational Graphs and Logic	9.1
<i>D. Gananraj Thomas and B.J. Balamurugan</i>	
Tag Systems and Cryptography	10.1
<i>P. Abisha Jeyanthi and D. Jayaseelan Samuel</i>	

Recongnozability of Triangular Tiling Patterns by Tiling System and Sgraffito Automaton	11.1
<i>Robinson Thamburaj and P. Helen Vijitha</i>	
Reachability Problems in Petri Net Theory	12.1
<i>K. Thirusangu</i>	
Generalized Parikh vectors and Parikh matrices of 2D Binary Arrays	13.1
<i>J. Julie and J. Baskar Babujee</i>	
Anti-Diagonal Matrix: A Variant of Parikh Matrix	14.1
<i>V. Nithya Vani and R. Stella Maragatham</i>	
Closure Operations on Parallel Communicating String-Graph Grammar System	15.1
<i>Meena Parvathy Sankar and N.G.David</i>	
A New Automaton for Hexagonal Picture Languages	16.1
<i>S.Jayasankar, and T.Kamaraj</i>	
Inferring Subclass of Internal Contextual Grammars with Local Maximum Selector	17.1
<i>Abhisek Midya and Lakshmanan Kuppusamy</i>	
Picture Generating P Systems Based On (L/U) Mode Pure 2d Context Free Grammar With Conditional Rewriting	18.1
<i>P.S.AzeezunNisha and S.Hemalatha</i>	
Wiener Index of Certain Common Neighborhood Graphs	19.1
<i>A. Babu and J. Baskar Babujee</i>	
Quadtree Based Secure Least Significant Bit Watermarking	20.1
<i>V. M. Manikandan and V. Masilamani</i>	
Wiener Index of Y-Tree and Its Common Neighbourhood Graph	21.1
<i>A. Subhashini and J. Baskar Babujee</i>	
Crossing Numbers for Join of Graphs with Stars	22.1
<i>N. Shanthini and J. Baskar Babujee</i>	