TABLE OF CONTENTS

1. EATCS Matters

Letter from the President 1
Letter from the Bulletin Editor 2
The Japanese Chapter (by O. Watanabe) 3

2. ICALP 2002

Report on the General Assembly (by B. Rovan) 5
Report on ICALP 2002 (by M. Kudlek) 8

3. Gödel Prize

2003 Gödel Prize 16

4. Contents of TCS 19

5. EATCS Monographs and Texts 30

6. Institutional Sponsors 43

BRICS - Computer Science Department of University of Aarhus and Aalborg University (by U.H. Engberg, M. Nielsen, G. Winskel) 44
IPA - Institute for Programming research and Algorithmics (by T. Borghuis) . . . 47

7. Sister Organizations

Contents of SIGACT News 49
IFIP Technical Committee 1 (IFIP TC1), Foundations of Computer Science (by G. Ausiello, R. Gorrieri) 50

8. News from Australia (by S. Peuker) 55

9. News from New Zealand (by C.S. Calude) 56

10. News from Latin America (by A. Viola) 58

11. News from India (by M. Mukund)

Primes in P (by J. Radhakrishnan) 61

12. News from Ireland (by A.K. Seda) 66

13. Columns

J. Díaz: The Algorithmics Column
Primes $\in$ P (Without Assumptions) 67
H. Ehrig: The Formal Specification Column
Bigraphs meet Double Pushouts 72
L. Fortnow: The Computational Complexity Column
Understanding the Mulmuley-Sohoni Approach to P vs. NP (by K.W. Regan) 86
Y. Gurevich: The Logic in Computer Science Column
Pairwise Testing (by A. Blass, Y. Gurevich) 100

M. Mavronicolas: The Distributed Computing Column
Distributed Communication Algorithms
(by I. Chatzigiannakis, S. Nikoletseas, P. Spirakis) 133
M. Nielsen: The Concurrency Column
Roadmap of Infinite Results (by J. Srba) 163
An Introduction to Probabilistic Automata (by M. Stoelinga) 176
G. Rozenberg: The Natural Computing Column
Universality and Quantum Computing (by M. Hirvensalo) 199
A. Salomaa: The Formal Language Theory Column
Membrane Computing: New Results, New Problems
(by C. Martín-Vide, A. Păun, G. Păun) 204

14. Reflections

EATCS Award Acceptance Speech (by M. Nivat) 213

15. Technical Contributions

D.S. Bridges: Reality and Virtual Reality in Mathematics 221
R. Freund, M. Oswald: A Short Note on Analysing P Systems with Antiport Rules 231
J. Honkala: A Note on Systems of Alternative Word Equations 237
G. Rote: Crossing the Bridge at Night 241
L. Staiger, H. Yamasaki: A Simple Example of an ω-Language Topologically Inequivalent to a Regular One 247

16. Education Matters (by H.-J. Kreowski) 251

A Note on MMiSS (by B. Krieg-Brückner) 252

17. Reports on Conferences

First term of the First International Ph.D. School in Formal Languages and Applications, Tarragona, Spain, 2 April - 30 May 2002
(report by V. Mitrana) 255
Eighteenth British Colloquium on Theoretical Computer Science (BCTCS18), Bristol, United Kingdom, 7-10 April 2002 (report by Ch. Tofts) 257
Advanced School and Workshop on Models and Algorithms for the World Wide Web (MAW 02), Udine, Italy, 17-22 June 2002 (report by M. Montangero) . . 271
Computing Beyond Silicon Summer School (CBSSS), Pasadena, CA, U.S.A., 17 June - 17 July 2002 (report by E. Losseva) 273
Twenty-Third International Conference on Application and Theory of Petri Nets (ICATPN 2002), Adelaide, Australia, 24-28 June 2002
(report by L. Petrucci) 276
Thirteenth Annual Symposium on Combinatorial Pattern Matching 2002 (CPM 2002), Fukuoka, Japan, 3-5 July 2002 (report by F. Franek) 278
TCS conference at the 17th IFIP World Computer Congress, Montreal, Canada, 26-29 August 2002 (report by J. Gruska) 279

18. Conference Announcements

DIMACS Workshops and Events Calendar 283
Fixed Points in Computer Science (FICS'2003), A Satellite Workshop to ETAPS'2003, Warsaw, Poland, 12-13 April 2003 290
Ninth International Meeting on DNA Based Computers (DNA9), Madison, Wisconsin, U.S.A., 1-4 June 2003 291
Third International Conference of B and Z-Users, Turku, Finland, 4-6 June 2003 293
Twenty-Ninth International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2003), Elspeet, The Netherlands, 19-21 June 2003 . . . 298
Twenty-Fourth International Conference on Application and Theory of Petri Nets (ICATPN 2003), Eindhoven, The Netherlands, 23-27 June 2003 300
Seventh International Conference on Developments in Language Theory, Szeged, Hungary, 7-11 July 2003 302
Fourth International Conference on Discrete Mathematics and Theoretical Computer Science (DMTCS'03), Dijon, France, 7-12 July 2003 303
Andrei Ershov Fifth International Conference on Perspectives of System Informatics (PSI'03), Novosibirsk, Akademgorodok, Russia, 9-12 July 2003 . . . 304
Eighth International Conference on Implementation and Application of Automata (CIAA 2003), Santa Barbara, California, U.S.A., 16-18 July 2003 306
Twenty-Eighth International Symposium on Mathematical Foundations of Computer Science (MFCS 2003), Bratislava, Slovak Republic, 25-29 August 2003 308
International Conference on Computability and Complexity in Analysis (CCA 2003), Cincinnati, U.S.A., 28-30 August 2003 309
Fourth Advanced Course on Petri Nets, Eichstätt, Germany, 15-25 September 2003 310
Thirtieth International Colloquium on Automata, Languages and Programming (ICALP 2003), Eindhoven, The Netherlands, 30 June - 4 July 2003 . . . 311

19. Agenda of Events 313

20. Reports on Computer Science Organizations

European Educational Forum (EEF) (by T. Borghuis) 315

21. Abstracts of Ph.D. Theses

R. Zizza: On the Power of Classes of Splicing Systems 319

22. Miscellaneous

Ole-Johan Dahl, Obituary (by K. Nygaard) 323
Kristen Nygaard, Obituary (by O. Lehrmann Madsen) 325
Structure of Scientific Collaboration in Graph Transformation (by G. Valiente) . . 329

23. Moving Around 346

24. Puzzle Corner (by L. Rosaz) 347

25. EATCS Leaflet 350

26. Cartoons 18, 54, 220, 312, 346