

Contents EATCS Bulletin Number 55, February 1995

1. <i>EATCS Matters</i>	
Letter from the President	1
Letter from the Bulletin Editor	2
The French Chapter (by B. Rozoy)	3
2. <i>ICALP '95</i>	
ICALP '95, Scientific and Social Program (by F. Gécseg)	31
3. <i>Contents of TCS</i>	40
4. <i>EATCS Monographs and Texts</i>	47
5. <i>Sister Organizations</i>	
News from the European Association for Computer Science Logic (by E. Börger)	59
FACS from the UK (by D. Simpson) BCS FACS Group – 1994	60
6. <i>Institutional Sponsors</i>	63
BRICS – Computer Science Departments of University of Aarhus and Alborg University (by U.H. Engberg, G. Winskel)	64
7. <i>ESPRIT – Basic Research Actions</i>	
Second Year Report for CONFER (by J.-J. Lévy, B. Thomsen, L. Leth, A. Giacalone)	68
LOMAPS (by F. Nielson)	88
8. <i>News from Australia</i> (by J. Staples)	104
9. <i>News from New Zealand</i> (by C. Calude)	108
10. <i>News from Japan</i> (by O. Watanabe)	
Report on TGCOMP Meetings	111
11. <i>News from Latin America</i> (by R. Baeza-Yates)	120
12. <i>Columns</i>	
H. Ehrig: The Algebraic Specification Column	
Transition Specifications for Dynamic Abstract Data Types by (M. Große-Rhode)	121
Y. Gurevich: The Logic in Computer Science Column	
The Value, if any, of Decidability	129
J. Hartmanis: The Structural Complexity Column	
On the Weight of Computations	136
M. Nielsen: The Concurrency Column	139
Concurrency without Homotopy (by J. Parrow)	140
A. Salomaa: The Formal Language Theory Column	
Return to Patterns	144
13. <i>Technical Contributions</i>	
F. Buffoli, G. Degli Antoni, A. Marchese: OR-Parallellism in Theorem Proving: Speedups versus Timeout	158
J. Lehtikoinen, E. Mäkinen: A New Distance-based Coding Method For Binary Trees	166

14. <i>Surveys and Tutorials</i>	
Quantum Computation and Complexity Theory I (by K. Svovil)	170
15. <i>Educational Matters</i> (by H.-J. Kreowski)	
Conception of a Course on Syntactic Methods in Picture Generation	208
16. <i>Reports on Conferences</i>	
Nineteenth International Symposium on Mathematical Foundation of Computer Science, (MFCS '94), Kosice, Slovak Republic, 22–26 August 1994 (report by M. Kudlek)	214
Eight Banff Higher Order Workshop, Banff, Canada, 27 August–3 September 1994 (report by C. Kirkwood).	219
International Symposium “The Foundational Debate” Complexity and Constructivity in Mathematics and Physics, Vienna, Austria, 15–17 September 1994 (report by C. Calude).	221
Eight annual meeting of the European Association for Computer Science Logic (CSL '94), Kazimierz, Poland, 26–30 September 1994 (report by C. Lautemann)	223
Thirteenth World Computer Congress, IFIP Congress 1994, Hamburg, Germany, 28 August–2 September 1994 (report by M. Kudlek)	224
Workshop on Artificial Life: Grammatical Models, Mangalia, Romania, 29 August–4 September 1994; Vienna, Austria (report by R. Freund)	230
ALCOM Summer School on Complexity, 5–9 September 1994, Barcelona, Spain (report by A. Ben-Amram).	232
Fourth Theory Day “Automata and Formal Languages”, 29–30 September 1994, Munich, Germany (by H. Petersen)	233
Graph Drawing 1994, New Jersey, USA, 10–12 October 1994 (report by R. Tamassia, I.G. Tollis)	235
Fourth International Workshop on Analogical and Inductive Inference, AII '94, and Fifth International Workshop on Algorithmic Learning Theory, ALT '94, Reinhardtbrunn, Germany, 10–15 October 1994 (report by B. Daley)	241
Sixth Nordic Workshop on Programming Theory, Aarhus, Denmark, 17–19 October 1994 (report K. Cerans).	245
Fifth International Workshop on Graph Grammars and Their Application to Computer Science, Williamsburg, VA, USA, 13–18 November 1994 (report by A. Habel)	247
Twentieth Australasian Conference on Combinatorial Mathematics and Combinatorial Computing, Auckland, New Zealand, 5–9 December 1994 (report by P. Gibbons)	252
Fourteenth Conference on Foundations of Software Technology and Theoretical Computer Science, Madras, India, 15–17 December 1994 (report by J. Köbler).	255
17. <i>Conference Announcements</i>	
Twelfth Symposium on Theoretical Aspects of Computer Science (STACS '95) 2–4 March 1995, Munich, Germany	257
Second European Conference on Computational Learning Theory (EuroCOLT '95), 13–15 March 1995, Barcelona, Spain	262
International Workshop on Universal Machines and Computations, 29–31 March 1995, Paris, France	267
Latin American Theoretical INformatics (LATIN '95), 3–7 April 1995, Valparaiso, Chile . . .	268
Sixth International Conference on Rewriting Techniques and Applications (RTA '95), 5–7 April 1995, Kaiserslautern, Germany	277
Seventh European Workshop on Dependable Computing “Dependable Computing for Telematics”, 19–21 April 1995, Enschede, The Netherlands	285
Paderborn Spring School on Efficient Use of Parallel Systems, 25–28 April 1995, Paderborn, Germany	286
International Workshop on Structures in Concurrency Theory (STRICT), 11–13 May 1995, Berlin, Germany.	288

Second Workshop on Algebra of Communicating Processes (ACP '95), 17–18 May 1995, Eindhoven, The Netherlands	289
Workshop on Tools and Algorithms for the Construction and Analysis of Systems, 19–20 May 1995, Aarhus, Denmark	291
Sixth International Joint Conference on Theory and Practice of Software Development (TAPSOFT '95), 22–26 May 1995, Aarhus, Denmark	292
Workshop on Logic, Domains, and Programming Languages, 24–27 May 1995, Darmstadt, Germany.	298
First International Spring School on Advanced Functional Programming Techniques, 24–31 May 1995, Bastad, Sweden	301
Second Workshop on Self-Stabilizing Systems, 28–29 May 1995, Las Vegas, NV, USA	304
Seventh International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC '95), 29 May–2 June 1995, Paris, France	305
Symposium on the Evolution of Complexity, 29 May–3 June 1995, Brussels, Belgium	308
European Simulation Multiconference (ESM '95), 5–7 June 1995, Prague, Czech Republic	311
Second Eurographics Workshop on Design, Specification, Verification of Interactive Systems (DSV-IS '95), 7–9 June 1995, Toulouse, France	315
DIMACS Workshop on Groups and Computation, 7–9 June 1995, Piscataway, NJ, USA.	316
International Colloquium on Structural Information and Communication Complexity (SIROCCO '95), 12–14 June 1995, Patras, Greece	317
Second Workshop on Non-Standard Logics and Logical Aspects of Computer Science (NSL '95), 15–17 June 1995, Irkutsk, Russia	318
IEEE Workshop on Shape and Pattern Matching in Computational Biology, 19 June 1995, Cambridge, MA, USA	319
Tenth Annual IEEE Conference on Structure in Complexity Theory, 19–22 June 1995, Minneapolis, USA	320
Twenty-first International Workshop on Graph-Theoretic Concepts in Computer Science (WG '95), 20–22 June 1995, Aachen, Germany	321
Fifth Toulouse International Workshop on Time, Space and Movement, 23–27 June 1995, Gascony, France	322
Workshop on Object-Oriented Programming and Models of Concurrency, 27 June 1995, Torino, Italy.	326
Summer School on Chaitin Complexity and Applications, 27 June 6 July 1995, Mangalia, Romania.	327
Conference on Computer-Aided Verification (CAV '95), 3–6 July 1995, Liege, Belgium	328
First IEEE International On-Line Testing Workshop, 4–5 July 1995, Nice, France	329
Sixth Symposium on Combinatorial Pattern Matching, 4–7 July 1995, Helsinki, Finland . . .	330
Eighth Conference on Computational Learning Theory (COLT '95), 5–8 July 1995, Santa Cruz, CA, USA	331
VISION Geometry IV Conference, 9–14 July 1995, San Diego, CA, USA	332
Seventh Annual ACM Symposium on Parallel Algorithms and Architectures, 17–19 July 1995, Santa Barbara, CA, USA	333
Third International Conference on Intelligent Systems for Molecular Biology, 16–19 July 1995, Cambridge, UK	334
Second International Conference on Developments in Language Theory (DiLT), 17–21 July 1995, Magdeburg, Germany.	336
Marktoberdorf Summer School on Logic of Computation, 25 July–6 August 1995, Marktoberdorf, Germany	338
Second Workshop on Logic, Language, Information and Computation (WoLLIC '95), 26–28 July 1995, Recife, Brazil	339
Seventh Canadian Conference on Computational Geometry, 10–14 August 1995, Québec, Canada.	340
Workshop on Algorithms and Data Structures (WADS '95), 16–18 August 1995, Kingston, Canada.	341

Workshop on Executable Temporal Logics, 19, 20 or 21 August 1995, Montreal, Canada	342
Fourteenth ACM SIGACT–SIGOPS Symposium on Principles of Distributed Computing (PODC), 20–23 August 1995, Ottawa, Canada	344
First Annual International Computing and Combinatorics Conference (COCOON '95), 24–26 August 1995, Xian, People's Republic of China	345
Workshop on Parallel Algorithms for Irregularly Structured Problems, 4–6 September 1995, Lyon, France	346
First International Conference on Principles and Practice of Constraint Programming (CP '95), 19–22 September 1995, Marseille, France	347
Eleventh ADT Workshop and Eight General Compass Meeting, 19–23 September 1995, Oslo, Norway	348
Graph Drawing '95 (GD '95), 20–22 September 1995, Passau, Germany	351
Second International Workshop on Higher-Order Algebra, Logic and Term Rewriting, 21–22 September 1995, Paderborn, Germany	352
Annual Conference of the European Association for Computer Science Logic (CSL '95), 22–29 September 1995, Paderborn, Germany	353
Third Annual European Symposium on Algorithms (ESA '95), 25–27 September 1995, Corfu, Greece	354
Fifth IFIP International Working Conference on Dependable Computing for Critical Applications (DCCA-5), 27–29 September 1995, Urbana-Champaign, IL, USA	355
Sixth International Workshop on Petri Nets and Performance Models, 3–6 October 1995, Durham, CA, USA	356
Sixth International Workshop on Algorithmic Learning Theory (ALT '95), 18–20 October, Fukuoka, Japan	357
Tenth International Symposium on Computer and Information Sciences (ISCIS X), 30 October–1 November 1995, Izmir, Turkey	358
First IEEE International Conference on Engineering of Complex Computer Systems (ICECCS '95), 6–10 November 1995, Southern Florida, USA	359
Second International Course on Petri Nets for Latin America, 20–28 November 1995, Campina Grande, Brazil	361
Sixth Annual International Symposium on Algorithms and Computation (ISAAC '95), 4–6 December 1995 Cairns, Australia	362
Third International Workshop on Deontic Logic in Computer Science (DEON '96), 11–13 January 1996, Lisbon, Portugal	363
22nd International Colloquium on Automata, Languages, and Programming (ICALP '95), 10–14 July 1995, Szeged, Hungary	364
23rd International Colloquium on Automata, Languages, and Programming (ICALP '96), 8–12 July 1996, Paderborn, Germany	366
18. <i>Agenda of Events</i>	368
19. <i>Reports on Computer Science Departments and Institutes</i>	
Department of Computer Science, University of British Columbia, Vancouver, Canada	378
Department of Computer Science, York University, York, Canada	379
20. <i>Reports on Computer Science Organizations</i>	
DIMACS 1995–96 Special Year on Logic and Algorithms	381
DIMACS Workshops and Events Calendar	386
21. <i>Technical Reports and Publications</i>	
University of Heidelberg, Department of Mathematical Logic, Heidelberg, Germany	388
University of Sussex, School of Cognitive and Computing Sciences, Brighton, UK	393
22. <i>Abstracts of Ph.D. Theses</i>	
E. Amaldi: From Finding Maximum Feasible Subsystems of Linear Systems to Feedforward Neural Network Design	394

B. Borchert: Predicate Classes, Promise Classes, and the Acceptance Power of Regular Languages	397
V. Dancik: Expected Length of Longest Common Subsequences	400
J.-F. Diaz-Frias: Vérification Probabiliste de Problèmes de Graphes: Application à la Planification avec Incertitudes	402
T. Gomez-Diaz: Some Applications on Dynamic Evaluation.	404
R. Huis in 't Veld: Developing a Design Framework for Communication Systems	407
S. Pinchinat: Bisimulations for the Semantics of Reactive Systems	412
A. Renvall: Cryptographic Protocols and Techniques for Communication	415
K. Reinhardt: Priority-Multicounter-Automata and the Synchronization of Semitrace-Languages	417
S. Rössig: A Transformational Approach to the Design of Communicating Systems	419
D. Sieling: Algorithmen und untere Schranken für verallgemeinerte OBDDs	423
S. Tan: Calcul et Vérification Parallèles de Problèmes d'Algèbre Linéaire	426
J. Viksna: Inductive Inference with Deterministic and Probabilistic Strategies.	428
23. <i>Recent Books Column</i> (by C. Jones).	431
24. <i>Moving Around</i>	433
24. <i>Miscellaneous</i>	
Rectification (by S. Gnesi)	433
Special offer of <i>Fundamenta Informaticae</i>	434
Electronic Colloquium on Computational Complexity	435
25. <i>EATCS Leaflet</i>	436
26. <i>Cartoons</i>	58, 107, 213, 377, 430