

# Author Index

Aceto L.,	263	Levin V.,	345
Aiken A.,	184	Lind-Nielsen J.,	201
Ajami K.,	52	Lindahl M.,	281
Alur R.,	330	Liu X.,	5
Andersen H.R.,	201	Lynch N.A.,	409
Aziz Abdulla P.,	298	Magnier N.,	249
Barnard A.,	439	Minea M.,	345
Behrmann G.,	201	Niebert P.,	36
Ben-Abdallah H.,	118	Peled D.,	345
Bjørner N.S.,	376	Pettersson P.,	281
Brinksma E.,	393	Pichora M.C.,	376
Brockmeyer U.,	217	Pnueli A.,	151
Bryant R.E.,	1, 136	Podelski A.,	358
Burgueño A.,	263	Rajamani S.K.,	330
Cattel T.,	232	Ramakrishnan C.R.,	5
Charatonik W.,	358	Regensburger F.,	439
Daws C.,	313	Ruys T.C.,	393
Fähndrich M.,	184	Sherman D.J.,	249
Garavel H.,	68	Siegel M.,	151
Grahlmann B.,	102	Singerman E.,	151
Gribomont E.P.,	424	Smolka S.A.,	5
Grumberg O.,	20	Sprenger C.,	167
Haddad S.,	52	Stevens P.,	85
Henzinger T.A.,	330	Stirling C.,	85
Huhn M.,	36	Su Z.,	184
Hulgaard H.,	201	Tripakis S.,	313
Ilié J.-M.,	52	Velev M.N.,	136
Jensen H. E.,	409	Wallner F.,	36
Jonsson B.,	298	Wittich G.,	217
Kristoffersen K.,	201	Yenigün H.,	345
Kurshan R.,	345	Yi W.,	281
Larsen K.G.,	201, 263	Zenner G.,	424
Laster K.,	20		
Leue S.,	118		

# Lecture Notes in Computer Science

For information about Vols. 1–1308

please contact your bookseller or Springer-Verlag

- Vol. 1309: R. Steinmetz, L.C. Wolf (Eds.), *Interactive Distributed Multimedia Systems and Telecommunication Services*. Proceedings, 1997. XIII, 466 pages. 1997.
- Vol. 1310: A. Del Bimbo (Ed.), *Image Analysis and Processing*. Proceedings, 1997. Volume I. XXII, 722 pages. 1997.
- Vol. 1311: A. Del Bimbo (Ed.), *Image Analysis and Processing*. Proceedings, 1997. Volume II. XXII, 794 pages. 1997.
- Vol. 1312: A. Geppert, M. Berndtsson (Eds.), *Rules in Database Systems*. Proceedings, 1997. VII, 214 pages. 1997.
- Vol. 1313: J. Fitzgerald, C.B. Jones, P. Lucas (Eds.), *FME '97: Industrial Applications and Strengthened Foundations of Formal Methods*. Proceedings, 1997. XIII, 685 pages. 1997.
- Vol. 1314: S. Muggleton (Ed.), *Inductive Logic Programming*. Proceedings, 1996. VIII, 397 pages. 1997. (Subseries LNAI).
- Vol. 1315: G. Sommer, J.J. Koenderink (Eds.), *Algebraic Frames for the Perception-Action Cycle*. Proceedings, 1997. VIII, 395 pages. 1997.
- Vol. 1316: M. Li, A. Maruoka (Eds.), *Algorithmic Learning Theory*. Proceedings, 1997. XI, 461 pages. 1997. (Subseries LNAI).
- Vol. 1317: M. Leman (Ed.), *Music, Gestalt, and Computing*. IX, 524 pages. 1997. (Subseries LNAI).
- Vol. 1318: R. Hirschfeld (Ed.), *Financial Cryptography*. Proceedings, 1997. XI, 409 pages. 1997.
- Vol. 1319: E. Plaza, R. Benjamins (Eds.), *Knowledge Acquisition, Modeling and Management*. Proceedings, 1997. XI, 389 pages. 1997. (Subseries LNAI).
- Vol. 1320: M. Mavronicolas, P. Tsigas (Eds.), *Distributed Algorithms*. Proceedings, 1997. X, 333 pages. 1997.
- Vol. 1321: M. Lenzerini (Ed.), *AI\*IA 97: Advances in Artificial Intelligence*. Proceedings, 1997. XII, 459 pages. 1997. (Subseries LNAI).
- Vol. 1322: H. Hußmann, *Formal Foundations for Software Engineering Methods*. X, 286 pages. 1997.
- Vol. 1323: E. Costa, A. Cardoso (Eds.), *Progress in Artificial Intelligence*. Proceedings, 1997. XIV, 393 pages. 1997. (Subseries LNAI).
- Vol. 1324: C. Peters, C. Thanos (Eds.), *Research and Advanced Technology for Digital Libraries*. Proceedings, 1997. X, 423 pages. 1997.
- Vol. 1325: Z.W. Raś, A. Skowron (Eds.), *Foundations of Intelligent Systems*. Proceedings, 1997. XI, 630 pages. 1997. (Subseries LNAI).
- Vol. 1326: C. Nicholas, J. Mayfield (Eds.), *Intelligent Hypertext*. XIV, 182 pages. 1997.
- Vol. 1327: W. Gerstner, A. Germond, M. Hasler, J.-D. Nicoud (Eds.), *Artificial Neural Networks – ICANN '97*. Proceedings, 1997. XIX, 1274 pages. 1997.
- Vol. 1328: C. Retoré (Ed.), *Logical Aspects of Computational Linguistics*. Proceedings, 1996. VIII, 435 pages. 1997. (Subseries LNAI).
- Vol. 1329: S.C. Hirtle, A.U. Frank (Eds.), *Spatial Information Theory*. Proceedings, 1997. XIV, 511 pages. 1997.
- Vol. 1330: G. Smolka (Ed.), *Principles and Practice of Constraint Programming – CP 97*. Proceedings, 1997. XII, 563 pages. 1997.
- Vol. 1331: D. W. Embley, R. C. Goldstein (Eds.), *Conceptual Modeling – ER '97*. Proceedings, 1997. XV, 479 pages. 1997.
- Vol. 1332: M. Bubak, J. Dongarra, J. Waśniewski (Eds.), *Recent Advances in Parallel Virtual Machine and Message Passing Interface*. Proceedings, 1997. XV, 518 pages. 1997.
- Vol. 1333: F. Pichler, R. Moreno-Díaz (Eds.), *Computer Aided Systems Theory – EUROCAST '97*. Proceedings, 1997. XII, 626 pages. 1997.
- Vol. 1334: Y. Han, T. Okamoto, S. Qing (Eds.), *Information and Communications Security*. Proceedings, 1997. X, 484 pages. 1997.
- Vol. 1335: R.H. Möhring (Ed.), *Graph-Theoretic Concepts in Computer Science*. Proceedings, 1997. X, 376 pages. 1997.
- Vol. 1336: C. Polychronopoulos, K. Joe, K. Araki, M. Amamiya (Eds.), *High Performance Computing*. Proceedings, 1997. XII, 416 pages. 1997.
- Vol. 1337: C. Freksa, M. Jantzen, R. Valk (Eds.), *Foundations of Computer Science*. XII, 515 pages. 1997.
- Vol. 1338: F. Pláčil, K.G. Jeffery (Eds.), *SOFSEM '97: Theory and Practice of Informatics*. Proceedings, 1997. XIV, 571 pages. 1997.
- Vol. 1339: N.A. Murshed, F. Bortolozzi (Eds.), *Advances in Document Image Analysis*. Proceedings, 1997. IX, 345 pages. 1997.
- Vol. 1340: M. van Kreveld, J. Nievergelt, T. Roos, P. Widmayer (Eds.), *Algorithmic Foundations of Geographic Information Systems*. XIV, 287 pages. 1997.
- Vol. 1341: F. Bry, R. Ramakrishnan, K. Ramamohanarao (Eds.), *Deductive and Object-Oriented Databases*. Proceedings, 1997. XIV, 430 pages. 1997.
- Vol. 1342: A. Sattar (Ed.), *Advanced Topics in Artificial Intelligence*. Proceedings, 1997. XVII, 516 pages. 1997. (Subseries LNAI).
- Vol. 1343: Y. Ishikawa, R.R. Oldehoeft, J.V.W. Reynders, M. Tholburn (Eds.), *Scientific Computing in Object-Oriented Parallel Environments*. Proceedings, 1997. XI, 295 pages. 1997.

- Vol. 1344: C. Ausnit-Hood, K.A. Johnson, R.G. Pettit, IV, S.B. Opdahl (Eds.), *Ada 95 – Quality and Style*. XV, 292 pages. 1997.
- Vol. 1345: R.K. Shyamasundar, K. Ueda (Eds.), *Advances in Computing Science - ASIAN'97. Proceedings*, 1997. XIII, 387 pages. 1997.
- Vol. 1346: S. Ramesh, G. Sivakumar (Eds.), *Foundations of Software Technology and Theoretical Computer Science. Proceedings*, 1997. XI, 343 pages. 1997.
- Vol. 1347: E. Ahronovitz, C. Fiorio (Eds.), *Discrete Geometry for Computer Imagery. Proceedings*, 1997. X, 255 pages. 1997.
- Vol. 1348: S. Steel, R. Alami (Eds.), *Recent Advances in AI Planning. Proceedings*, 1997. IX, 454 pages. 1997. (Subseries LNAI).
- Vol. 1349: M. Johnson (Ed.), *Algebraic Methodology and Software Technology. Proceedings*, 1997. X, 594 pages. 1997.
- Vol. 1350: H.W. Leong, H. Imai, S. Jain (Eds.), *Algorithms and Computation. Proceedings*, 1997. XV, 426 pages. 1997.
- Vol. 1351: R. Chin, T.-C. Pong (Eds.), *Computer Vision – ACCV'98. Proceedings Vol. I*, 1998. XXIV, 761 pages. 1997.
- Vol. 1352: R. Chin, T.-C. Pong (Eds.), *Computer Vision – ACCV'98. Proceedings Vol. II*, 1998. XXIV, 757 pages. 1997.
- Vol. 1353: G. BiBattista (Ed.), *Graph Drawing. Proceedings*, 1997. XII, 448 pages. 1997.
- Vol. 1354: O. Burkart, *Automatic Verification of Sequential Infinite-State Processes*. X, 163 pages. 1997.
- Vol. 1355: M. Darnell (Ed.), *Cryptography and Coding. Proceedings*, 1997. IX, 335 pages. 1997.
- Vol. 1356: A. Danthine, Ch. Diot (Eds.), *From Multimedia Services to Network Services. Proceedings*, 1997. XII, 180 pages. 1997.
- Vol. 1357: J. Bosch, S. Mitchell (Eds.), *Object-Oriented Technology. Proceedings*, 1997. XIV, 555 pages. 1998.
- Vol. 1358: B. Thalheim, L. Libkin (Eds.), *Semantics in Databases*. XI, 265 pages. 1998.
- Vol. 1360: D. Wang (Ed.), *Automated Deduction in Geometry. Proceedings*, 1996. VII, 235 pages. 1998. (Subseries LNAI).
- Vol. 1361: B. Christianson, B. Crispo, M. Lomas, M. Roe (Eds.), *Security Protocols. Proceedings*, 1997. VIII, 217 pages. 1998.
- Vol. 1362: D.K. Panda, C.B. Stunkel (Eds.), *Network-Based Parallel Computing. Proceedings*, 1998. X, 247 pages. 1998.
- Vol. 1363: J.-K. Hao, E. Lutton, E. Ronald, M. Schoenauer, D. Snyers (Eds.), *Artificial Evolution*. XI, 349 pages. 1998.
- Vol. 1364: W. Conen, G. Neumann (Eds.), *Coordination Technology for Collaborative Applications*. VIII, 282 pages. 1998.
- Vol. 1365: M.P. Singh, A. Rao, M.J. Wooldridge (Eds.), *Intelligent Agents IV. Proceedings*, 1997. XII, 351 pages. 1998. (Subseries LNAI).
- Vol. 1367: E.W. Mayr, H.J. Prömel, A. Steger (Eds.), *Lectures on Proof Verification and Approximation Algorithms*. XII, 344 pages. 1998.
- Vol. 1368: Y. Masunaga, T. Katayama, M. Tsukamoto (Eds.), *Worldwide Computing and Its Applications – WWCA'98. Proceedings*, 1998. XIV, 473 pages. 1998.
- Vol. 1370: N.A. Streitz, S. Konomi, H.-J. Burkhardt (Eds.), *Cooperative Buildings. Proceedings*, 1998. XI, 267 pages. 1998.
- Vol. 1372: S. Vaudenay (Ed.), *Fast Software Encryption. Proceedings*, 1998. VIII, 297 pages. 1998.
- Vol. 1373: M. Morvan, C. Meinel, D. Kroh (Eds.), *STACS 98. Proceedings*, 1998. XV, 630 pages. 1998.
- Vol. 1374: H. Bunt, R.-J. Beun, T. Borghuis (Eds.), *Multimodal Human-Computer Communication*. VIII, 345 pages. 1998. (Subseries LNAI).
- Vol. 1375: R. D. Hersch, J. André, H. Brown (Eds.), *Electronic Publishing, Artistic Imaging, and Digital Typography. Proceedings*, 1998. XIII, 575 pages. 1998.
- Vol. 1376: F. Parisi Presicce (Ed.), *Recent Trends in Algebraic Development Techniques. Proceedings*, 1997. VIII, 435 pages. 1998.
- Vol. 1377: H.-J. Schek, F. Saltor, I. Ramos, G. Alonso (Eds.), *Advances in Database Technology – EDBT'98. Proceedings*, 1998. XII, 515 pages. 1998.
- Vol. 1378: M. Nivat (Ed.), *Foundations of Software Science and Computation Structures. Proceedings*, 1998. X, 289 pages. 1998.
- Vol. 1379: T. Nipkow (Ed.), *Rewriting Techniques and Applications. Proceedings*, 1998. X, 343 pages. 1998.
- Vol. 1380: C.L. Lucchesi, A.V. Moura (Eds.), *LATIN'98: Theoretical Informatics. Proceedings*, 1998. XI, 391 pages. 1998.
- Vol. 1381: C. Hankin (Ed.), *Programming Languages and Systems. Proceedings*, 1998. X, 283 pages. 1998.
- Vol. 1382: E. Astesiano (Ed.), *Fundamental Approaches to Software Engineering. Proceedings*, 1998. XII, 331 pages. 1998.
- Vol. 1383: K. Koskimies (Ed.), *Compiler Construction. Proceedings*, 1998. X, 309 pages. 1998.
- Vol. 1384: B. Steffen (Ed.), *Tools and Algorithms for the Construction and Analysis of Systems. Proceedings*, 1998. XIII, 457 pages. 1998.
- Vol. 1385: T. Margaria, B. Steffen, R. Rückert, J. Poesgga (Eds.), *Services and Visualization. Proceedings*, 1997/1998. XII, 323 pages. 1998.
- Vol. 1386: T.A. Henzinger, S. Sastry (Eds.), *Hybrid Systems: Computation and Control. Proceedings*, 1998. VIII, 417 pages. 1998.
- Vol. 1387: C. Lee Giles, M. Gori (Eds.), *Adaptive Processing of Sequences and Data Structures. Proceedings*, 1997. XII, 434 pages. 1998. (Subseries LNAI).
- Vol. 1388: J. Rolim (Ed.), *Parallel and Distributed Processing. Proceedings*, 1998. XVII, 1168 pages. 1998.
- Vol. 1389: K. Tombe, A.K. Chhabra (Eds.), *Graphics Recognition. Proceedings*, 1997. XII, 421 pages. 1998.
- Vol. 1391: W. Banzhaf, R. Poli, M. Schoenauer, T.C. Fogarty (Eds.), *Genetic Programming. Proceedings*, 1998. X, 232 pages. 1998.