

## 2 Citations Summary

My work has an estimated **lower bound of 1570 citations**. Most of them appear in papers published in well established journals and conferences. Among the citations, 1180 are original citations, i.e., none of the authors of the citing paper is an author of the cited papers, and 390 are self citations, i.e., one of the authors of the citing paper is an author of the cited papers.

The statistics were obtained by processing the results of the Google-Scholar search engine. I enumerate the cited papers, sorted by the number of citations, in decreasing order. Each paper is annotated with **T:E(S)** where: **T** is the total number of citations, **E** is the number of citations excluding self citations, and **S** is the number of self citations. For most of the papers I also provide a small sample of such citations.

## References

- 236:185(51)**. I. Krüger, R. Grosu, P. Scholz and M. Broy. From MSCs to statecharts. In *Distributed and Parallel Embedded Systems*, pages 61–71. Kluwer Academic Publishers, 1999. US Patent number 06405361 by M. Broy, R. Grosu and I. Krüger. Automatically generating a program. In *Electronic Version, United States Patent and Trademark Office*, 2002.
- R. Alur, K. Etessami and M. Yannakakis. Inference of message sequence charts. In *IEEE Trans. Software Eng.* 29(7): 623–633, 2003.
  - W. Damm and D. Harel. LSCs: Breathing life into message sequence charts. In *Formal Methods in System Design* 19(1): 45–80, 2001.
- 184:149(35)**. R. Alur, R. Grosu, Y. Hur, I. Lee and V. Kumar. Modular specification of hybrid systems in Charon. In *Proc. of HSCC'00, the 3rd Int. Workshop on Hybrid Systems: Computation and Control*, volume 1790 of *Springer LNCS*, pages 6–19, Pittsburgh, PA, 2000.
- T.A. Henzinger, M. Minea and V. Prabhu. Assume-guarantee reasoning for hierarchical hybrid systems. In *Proc. of HSCC'01, the 4th Int. Workshop on Hybrid Systems: Computation and Control*, volume 2034 of *Springer LNCS*, pages 275–290, Rome, 2001.
  - E. Klavins. A language for modeling and programming cooperative control systems. In *Proc. of ICRA'04, the IEEE Int. Conference on Robotics and Automation*, pages 3403–3410, IEEE Press, New Orleans, USA, 2004.
- 138:101(37)**. M. Broy, C. Facchi, R. Grosu, R. Hettler, H. Hußmann, D. Nazareth, F. Regensburger, O. Slotosch and K. Stølen. The requirements and design specification language Spectrum. An informal introduction (V 1.0). In *Technical Reports TUM-I9311, TUM-I9312*, pages 1–98, Technische Universität München, 1993.
- W. Reif. The KIV-approach to software verification. In *KORSO Book: Methods, Languages, and Tools for the the Construction of Correct Software*, volume 1009 of *Springer LNCS*, pages 339–368, 1995.

- M. Gogolla, S. Conrad, G. Denker and R. Herzig. TROLL light - The Language and its Development Environment. In *KORSO Book: Methods, Languages, and Tools for the Construction of Correct Software*, volume 1009 of *Springer LNCS*, pages 205–222, 1995.
- 85:70(15)**. R. Alur, R. Grosu, I. Lee and O. Sokolsky. Compositional refinement for hierarchical hybrid systems. In *Proc. of HSCC'01, the 4th Int. Workshop on Hybrid Systems: Computation and Control*, volume 2034 of *Springer LNCS*, pages 33–48, Roma, Italy, 2001. Extended version in *Journal of Logic and Algebraic Programming*, 68(1): 105–128, 2006.
- J.A. Bergstra and C.A. Middelburg. Process algebra for hybrid systems. In *Theoretical Computer Science* 335(2-3): 215–280, 2005.
  - N. Lynch, R. Segala and F. Vaandraager. Hybrid I/O Automata. In *Information and Computation*, 185(1): 105–157, August, 2003.
- 80:60(20)**. R. Grosu and K. Stølen. A model for mobile point-to-point data-flow networks without channel sharing. In *Proc. of AMAST'96, the 5th Int. Conference on Algebraic Methodology and Software Technology*, volume 1101 of *Springer LNCS*, pages 504–519, München, Germany, 1996. Extended version in the *Technical Reports TUM-I9527, TUM-I9622, SFB-342/17/97A*, Technische Universität München, 1995–1997.
- S. Abramsky. Retracing some paths in process algebra. In *Proc. of CONCUR'96, the 7th Int. Conference on Concurrency Theory*, volume 1119 of *Springer LNCS*, pages 1–17, Pisa, Italy, August, 1996.
  - F. Arbab. Reo: a channel-based coordination model for component composition. In *Mathematical Structures in Computer Science*, 14(3): 329–366, 2004.
- 68:59(9)**. R. Grosu and S.A. Smolka. Monte Carlo model checking. In *Proc. of TACAS'05, the 11th Int. Conference on Tools and Algorithms for the Construction and Analysis of Systems*, volume 3440 of *Springer LNCS*, pages 271–286, Edinburgh, Scotland, 2005.
- M.B. Dwyer, S. Elbaum, S. Person and R. Purandare. Parallel randomized state-space search. In *Proc. of ICSE'07, the 29th Int. Conference on Software Engineering*, pages 3–12, IEEE Press, Minneapolis, MN, 2007.
  - K. Sen. Race directed random testing of concurrent programs. In *Proc. of PLDI'08, the ACM-SIGPLAN Conference on Programming Language Design and Implementation*, pages 11–21, ACM-SIGPLAN Notices, Tucson, Arizona, 2008.
- 62:38(24)**. R. Grosu, T. Stauner and M. Broy. A modular visual model for hybrid systems. In *Proc. of FTRTFT'98, the 5th Int. Symposium on Formal Techniques in Real-Time and Fault-Tolerant Systems*, volume 1486 of *Springer LNCS*, pages 75–91, Lyngby, 1998.
- H. Giese, S. Burmester, W. Schäfer and O. Oberschelp. Modular design and verification of component-based mechatronic systems with online-reconfiguration. In *ACM SIGSOFT Software Engineering Notes*, 29(6): 179–188, November, 2004.

- R. De Simone, C. Andre. Towards a synchronous reactive UML subprofile? In *Int. Journal on Software Tools for Technology Transfer (STTT)*, 8(2): 146–155, 2006.
- 60:45(15).** R. Alur and R. Grosu. Modular refinement of hierarchic reactive machines. In *Proc. of POPL'00, the 27th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 390–402, ACM Press, Boston, USA, 2000. Extended version in the *ACM Transactions on Programming Languages and Systems*, 25: 339–360, 2004.
- A. Ray, R. Cleaveland and A. Skou. An algebraic theory of boundary crossing transitions. In *Electronic Notes in Theoretical Computer Science*, 115: 69–88, 2005.
  - S. Qadeer, S.K. Rajamani and J. Rehof. Summarizing procedures in concurrent programs. In *Proc. of POPL'04, the 31st ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 245–255, ACM Press, Venice, Italy, 2004.
- 55:38(17).** R. Alur, R. Grosu, M. Kang, B.Y. Wang, L.di Alfaro, T. Henzinger, R. Majumdar, C. Meyer and F. Mang. jMOCHA: A model checking tool that exploits design structure. In *Proc. of ICSE'01, the 23rd International Conference on Software Engineering*, pages 835–836, IEEE Press, Toronto, Canada, May, 2001.
- O. Tkachuk, M.B. Dwyer, C.S. Pasareanu. Automated environment generation for software model checking. In *Proc. of ASE'03, the IEE 18th Int. Conference on Automated Software Engineering*, pages 116–129, IEEE Press, Montreal, Canada, October 2003.
  - P.A. Hsiung, S.Y. Cheng. Automating formal modular verification of asynchronous real-time embedded systems. In *Proc. of the 16th Int. Conference on VLSI Design*, pages 249–254, IEEE Press, New Delhi, India, January, 2003.
- 50:46(4).** R. Breu, R. Grosu, F. Huber, B. Rumpe and W. Schwerin. Towards a precise semantics for object-oriented modeling techniques. In *OO-Technology, ECOOP'97 Workshop Reader*, volume 1357 of *Springer LNCS*, pages 205–210, June, 1997.
- S. Cranefield and M. Purvis. UML as an ontology modelling language. In *Proc. of the Int. Workshop on Intelligent Information Integration*, 16th International Joint Conference on Artificial Intelligence (IJCAI), pages 46–53, 1999.
  - W. Ahrendt, T. Baar, B. Beckert, R. Bubel, M. Giese, R. Hähnle, W. Menzel, W. Mostowski, A. Roth, S. Schlager and P.H. Schmitt. The KeY tool. In *Software and System Modeling* 4(1): 32–54, 2005.
- 43:29(14).** R. Grosu, K. Klein, B. Rumpe and M. Broy. State transition diagrams. In *Technical Report TUM-I9630*, pages 1–27, Technische Universität München, July, 1996.
- M. Shehata and A. Eberlein. Requirements interaction detection using semi-formal methods. In *Proc. of ECBS'03, the IEEE Conference and Workshop on Engineering of Computer-Based Systems*, pages 224–232, IEEE Press, Los Alamitos, USA, 2003.

- F. Huber, B. Schaetz and G. Einert. Consistent graphical specification of distributed systems. In *Proc. of FME'97, the 4th Int. Symposium of Formal Methods Europe*, volume 1313 of *Springer LNCS*, pages 122–141, Graz, Austria, September, 1997.
- 43:40(3)**. R. Breu, R. Grosu, F. Huber, B. Rumpe and W. Schwerin. Systems, views and models of UML. In *The Unified Modeling Language, Technical Aspects and Applications*, pages 93–109, Physica Verlag, Heidelberg, 1998.
- G. Reggio, E. Astesiano, C. Choppy and H. Hußmann. Analysing UML active classes and associated state machines - A lightweight formal approach. In *FASE'00, the 3rd Int. Conf. on Fundamental Approaches to Software Engineering*, volume 1783 of *Springer LNCS*, pages 127–146, Berlin, Germany, March, 2000.
  - J. Jürjens. Towards development of secure systems using UMLsec. In *Proc. of FASE'01, the 4th Int. Conf. on Fundamental Approaches to Software Engineering*, volume 2029 of *Springer LNCS*, pages 187–200, Genova, Italy, April, 2001.
- 41:27(14)**. R. Grosu, T. Stauner and I. Krüger. Hybrid sequence charts. In *Proc. of ISORC'00, the 3rd IEEE Int. Symposium on Object-oriented Real-time distributed Computing*, pages 104–114, IEEE Press, Newport Beach, California, March 2000.
- G. Wimmel, H. Lötzbeier, A. Pretschner and O. Slotosch. Specification-based test sequence generation with propositional logic. In *Journal on Software Testing Verification and Reliability*, 10: 229–248, 2000.
  - Y. Bontemps and P. Heymans. Turning high-level live sequence charts into automata. In *Proc. of Scenarios and State-Machines: Models, Algorithms and Tools (SCESM) Workshop of ICSE*, Orlando, USA, May, 2002.
- 37:27(10)**. R. Alur, R. Grosu and M. McDougall. Efficient reachability analysis of hierarchic reactive machines. In *Proc. of CAV'00, the 12th Int. Conference on Computer-Aided Verification*, volume 1855 of *Springer LNCS*, pages 280–295, Chicago, USA, 2000.
- S. Leue, R. Mayr and W. Wei. A scalable incomplete test for message buffer overflow in Promela models. In *Proc. of SPIN'04, the 11th Int. Workshop on Model Checking Software*, volume 2989 of *Springer LNCS*, pages 216–233, Barcelona, Spain, April, 2004.
  - H.C. Li, S. Krishnamurthi and K. Fisler. Interfaces for modular feature verification. In *Proc. of ASE'02, the 17th Int. Conf. on Automated Software Engineering*, pages 195–204, Edinburgh, UK, September, 2002.
- 32:17(15)**. R. Grosu and B. Rumpe. Concurrent timed port automata. In *Technical Report TUM-I9533*, pages 1–34, Technische Universität München, 1995.
- F. Arbab, C. Baier, J.M. Rutten and M. Sirjani. Modeling component connectors in Reo by constraint automata. In *Proc. of FOCLASA'03*, Electronic notes of TCS, Marseille, France, September 2003.

- M. Breitling and J. Philipps. Black box views of state machines. In *Technical report TUM-I9916, SFB-Bericht 342/07/99A*, Muenchen, Germany, October 1999.
- 30:30(0)**. R. Grosu and S.A. Smolka. Safety-liveness semantics for UML 2.0 sequence diagrams. In *Proc. of ACSD'05, the 5th Int. Conference on Application of Concurrency to System Design*, pages 6–14, IEEE Press, St Malo, France, June 2005.
- D. Harel and S. Maoz. Assert and negate revisited: Modal semantics for UML sequence diagrams. In *Journal of Software and Systems Modeling*, 7(2): 237–252, May, 2008.
  - M. Lund and K. Stølen. A fully general operational semantics for UML 2.0 sequence diagrams with potential & mandatory choice. In *Proc. of FM'06, the 14th Int. Conference in Fromal Methods*, volume 4085 of *Springer LNCS*, pages 380–395, Canada, 2006.
- 22:17(5)**. R. Grosu. A formal foundation for concurrent object oriented programming. In *PhD Thesis, Technical Report TUM-I9444*, pages 1–177, Technische Universität München, 1995.
- M. Broy. Distributed concurrent object-oriented software. In *From Object-Orientation to Formal Methods, Essays in Memory of Ole-Johan Dahl*, volume 2635 of *Springer LNCS*, pages 83–95, 2004.
  - M. Cerioli. Basic concepts. In *Algebraic System Specification and Development: Survey and Annotated Bibliography*, 2nd edition, 1997, Monographs of the Bremen Institute of Safe Systems 3, 1998.
- 22:15(7)**. R. Grosu, G. Stefanescu and M. Broy. Visual formalisms revisited. In *Proc. of ACSD'98, the 1st International Conference on Application of Concurrency to System Design*, pages 41–52, IEEE Press, Aizu-Wakamatsu, Japan, 1998.
- M. Große-Rhode. Semantic integration of heterogeneous software specifications. In *Semantic integration of heterogeneous software specifications*, Springer-Verlag, Berlin Heidelberg, ISBN 3-540-40257-8, 2004.
  - J. Power and K. Tourlas. Abstraction in reasoning about higraph-based systems. In *Proc. of FoSSaCS'03, the 6th Int. Conference on Foundations of Software Science and Computational Structures*, volume 2620 of *Springer LNCS*, pages 392–408, Warsaw, Poland, April, 2003.
- 22:14(8)**. R. Grosu, K. Klein and B. Rumpe. Enhancing the SysLab system-model with state. In *Technical Report TUM-I9631*, pages 1–46, Technische Universität München, 1996.
- H. Zedan, A. Cau, B.C. Moszkowski. Compositional modelling: The formal perspective. In *Proc. of Workshop on Systems Modelling for Business Process Improvement*, pages 333–354. Artech House, 2000.

- K. Bergner and H. Lötzbeyer, A. Rausch, M. Sihling and A. Vilbig. A formally founded componentware testing methodology. In *Proc. of the 1st Int. Workshop on Automated Program Analysis, Testing and Verification*, June, 2000.
- 21:17(4)**. R. Grosu, M. Broy, B. Selic and G. Stefanescu. Towards a calculus for UML-RT specifications. In *Proc. of the 7th OOPSLA Workshop on Behavioral Semantics of OO Business and System Specifications*, pages 1–18, ACM Press, Vancouver, Canada, 1998.
- G. Karsai, S. Neema, A. Bakay, A. Ledeczi, F. Shi and A. Gokhale. A Model-based front-end to TAO/ACE: The embedded system modeling language. In *Proc. of the 2nd TAO Workshop*, Arlington, USA, July, 2002.
  - P. Kumarakulasingam and H. Saiedian. A framework for evaluating the effectiveness of real-time object-oriented models. In *Information and Software Technology*, 44(7): 395–404, July, 2002.
- 20:11(9)**. P. Ye, E. Entcheva, R. Grosu and S.A. Smolka. Efficient modeling of excitable cells using hybrid automata. In *Proc. of CMSB'05, the 3rd International Workshop on Computational Methods in Systems Biology*, pages 216–227, Edinburgh, Scotland, April 2005. Extended version in *IET Systems Biology*, 2(1): 24–32, January, 2008.
- G. Koh, H.F.C. Teong, M.V. Clement, D. Hsu and P.S. Thiagarajan. A decompositional approach to parameter estimation in pathway modeling: A case study of the AKT and MAPK pathways and their crosstalk. In *Bioinformatics*, 22(14): 271–280, 2006.
  - V Galpin, J Hillston and L Bortolussi. HYPE applied to modelling of hybrid biological systems. In *Electronic Notes in Theoretical Computer Science*, 218: 33–51, 2008.
- 18:10(8)**. R. Grosu and T. Stauner. Modular and visual specification of hybrid systems. An introduction to HyCharts. *Formal Methods in System Design*, 21(1): 5–38, July 2002.
- B. Jonsson, G. Padilla. An execution semantics for MSC-2000. In *SDL 2001: Meeting UML*, volume 2078 of *Springer LNCS*, pages 365–378, Copenhagen, Denmark, 2001.
  - R. Lanotte and A. Maggiolo-Schettini. Monotonic hybrid systems. In *Journal of Computer and System Sciences*, 71(1): 34–69, July, 2005.
- 18:14(4)**. R. Breu, R. Grosu, C. Hofmann, F. Huber, I. Krueger, B. Rumpe, M. Schmidt and W. Schwerin. Exemplary and complete object interaction descriptions. *Computer Standards and Interfaces*, 19: 335–345, 1998.
- P. Kosiuczenko and M. Wirsing. Towards an integration of message sequence charts and timed Maude. In *Transactions of the SDPS*, 5: 23–44, 2001.
  - X. Li, Z. Liu and J. He. A formal semantics of UML sequence diagrams. In *Proc of ASWEC'04, the Australian Software Engineering Conference*, IEEE Press, Melbourne, Australia, April 2004.

- 16:10(6)**. R. Grosu and F. Regensburger. The semantics of Spectrum. In *Proc. of HOA'93, the 1st Int. Workshop on Higher-Order Algebra, Logic and Term Rewriting*, volume 816 of *Springer LNCS*, pages 124–145, Amsterdam, The Netherlands, September, 1993. Extended version in *Technical Report TUM-I9402*, pages 1–39, Technische Universität München, 1994.
- U. Wolter, K. Didrich, F. Cornelius, M. Klar, R. Wess and H. Ehrig. How to cope with the spectrum of Spectrum. In *KORSO Book: Methods, Languages, and Tools for the Construction of Correct Software*, volume 1009 of *Springer LNCS*, pages 321-336, 1995.
  - M. Gogolla and M. Cerioli. What is an Abstract data type, after all? In *Proc. of COMPASS/ADT, the 10th Workshop on Specification of Abstract Data Types*, volume 906 of *Springer LNCS*, pages 499–523, 1994.
- 14:11(3)**. K. Bergner, R. Grosu, A. Rausch, A. Schmidt, P. Scholz and M. Broy. Focussing on mobility. In *Proc. of the 32nd Annual Hawaii International Conference on System Sciences*, pages 8030–8039, IEEE Press, Hawaii, 1999.
- A. Bhatnagar, E. Speight, D. Crawl, J. Dunn, J.K. Bennett. Application management techniques for the bifrost system. In *Proc. of WMCSA'03, the 5th IEEE Workshop on Mobile Computing Systems and Applications*, pages 66–76, Monterey, USA, 2003.
  - K.S. McDonald. The role of mobile geographic and information technologies in optimizing water quality monitoring and management. In *MSc Dissertation*, Faculty of Earth and Life Science, Vrije Universiteit Amsterdam, Holland, 2004.
- 12:9(3)**. R. Alur, R. Grosu and B.-Y. Wang. Automated refinement checking for asynchronous processes. In *Proc. of FMCAD'00, the 3rd International Conference on Formal Methods in Computer-Aided Design*, volume 1954 of *Springer LNCS*, pages 55–72, Austin Texas, 2000.
- C.A. Gunter. Open APIs for embedded security. In *Proc. of ECOOP'03, the 17th European Conference on Object-Oriented Programming*, volume 2743 of *Springer LNCS*, pages 225–247, Darmstadt, Germany, July, 2003.
  - P.A. Hsiung and S.Y. Cheng. Automating formal modular verification of asynchronous real-time embedded systems. In *Proc. of the 16th Int. Conference on VLSI Design*, pages 249–254, New Delhi, India, January, 2003.
- 12:8(4)**. R. Grosu and K. Stølen. Stream based specification of mobile systems. In *Proc. of NWPT'96, the 8th Nordic Workshop on Programming Theory*, pages 67–76, Oslo, Norway, 1996. Extended version in *Formal Aspects of Computing (FAC)*, 13(1): 1–31, 2001.
- G. Smith. A formal framework for modelling and analysing mobile systems. In *Proc. of ACSC'04, the 27th Australasian Computer Science Conference*, ASCS volume 56, pages 193–202, Dunedin, New Zealand, 2004.

- B. Schätz and C. Salzmänn. Service-based systems engineering: Consistent combination of services. In *Proc. of ICFEM'03, the 5th Int. Conference on Formal Engineering Methods*, volume 2885 of *Springer LNCS*, pages 86–104, Singapore, September, 2003.
- 12:11(1).** R. Grosu, M. Broy, B. Selic and G. Stefanescu. What is behind UML-RT? In *Behavioral Specifications of Businesses and Systems*, pages 73–88. Kluwer Academic Publishers, 1999.
- C. Fischer, E-R. Olderog and H. Wehrheim. A CSP view on UML-RT structure diagrams. In *Proc. of FASE'01, the 4th Int. Conf. on Fundamental Approaches to Software Engineering*, volume 2029 of *Springer LNCS*, pages 91–108, Genova, Italy, April, 2001.
  - S. Leue, R. Mayr and W. Wei. A scalable incomplete test for the boundedness of UML-RT models. In *Proc. of TACAS'04, the 10th Int. Conference on Tools and Algorithms for the Construction and Analysis of Systems*, volume 2988 of *Springer LNCS*, pages 327–341, Barcelona, Spain, March, 2004.
- 11:4(7).** R. Grosu, S. Mitra, P. Ye, E. Entcheva, I.V. Ramakrishnan and S.A. Smolka. Learning cycle-linear hybrid automata for excitable cells. In *Proc. of HSCC'07, the 10th Int. Conference on Hybrid Systems: Computation and Control*, volume 4416 of *Springer LNCS*, pages 245–258, Pisa, Italy, April, 2007.
- A. Tiwari and C.L. Talcott. Analyzing a discrete model of alypsia central pattern generator. In *CMSB'08, the 6th Int. Conference on Computational Methods in Systems Biology*, volume of 5307 *Springer LNCS*, pages 347–366, Rostock, Germany, 2008.
  - K. Takahashi. An Exact Brownian dynamics method for cell simulation. In *CMSB'08, the 6th Int. Conference on Computational Methods in Systems Biology*, volume of 5307 *Springer LNCS*, pages 5–6, Rostock, Germany, October, 2008.
- 11:8(3).** R. Grosu and T. Stauner. Visual description of hybrid systems. In *Proc. of WRTP'98, the 23rd IFAC-IFIP Workshop On Real Time Programming*, pages 1–6, Elsevier Science Ltd, Shantou, Guandong Province, P. R. China, 1998.
- L. Bichler, A. Radermacher and A. Schuerr. Combining data flow equations with UML Realtime. In *Proc. of ISORC'01, the 4th IEEE Int. Symposium on Object-Oriented Real-Time Distributed Computing*, pages 403–415, IEEE Press, Germany, 2001.
  - T Heverhagen, R. Tracht and R. Hirschfeld. Integrating function blocks into the Unified Modeling Language. In *Proc. of SVERTS Workshop*, San Francisco, USA, 2003.
- 11:6(5).** R. Grosu, C. Klein and M. Broy. Reconciling real-time with asynchronous message passing. In *Proc. of FME'97, the 4th International Symposium Formal Methods Europe*, volume 1313 of *Springer LNCS*, pages 182–200, Graz, Austria, September, 1997.
- V.A. Nepomniaschy, N.V. Shilov, E.V. Bodin and V.E. Kozura. Basic-REAL: Integrated approach for design, specification and verification of distributed systems. In *IFM'02*,



*the 3rd Int. Conference on Integrated Formal Methods*, volume 2335 of *Springer LNCS*, pages 69–88, Turku, Finland, May, 2002.

- M. Hermeling, O-v. Roosmalen and B. Selic. Timing constraints and object-oriented design. In *Proc. of the 24th IFAC/IFIP Workshop on Real Time Programming*, 1999.
- 10:10(0)**. R. Alur and R. Grosu. Shared variables interaction diagrams. In *Proc. of ASE'01, the 16th IEEE Int. Conference on Automated Software Engineering*, pages 281–289, IEEE Press, San Diego, USA, November, 2001.
- A. Goel, A. Roychoudhury and T. Mitra. Compactly representing parallel program executions. In *Proc. of PPOPP'03, the ACM Symposium on Principles and Practice of Parallel Programming*, pages 191–202, ACM Press, San Diego, USA, June, 2003.
  - N. Amla, E.A. Emerson, K.S. Namjoshi and R.J. Trefler. Visual specifications for modular reasoning about asynchronous systems. In *Proc. of FORTE'02, the 22nd Int. Conference on Formal Techniques for Networked and Distributed Systems*, volume 2529 of *Springer LNCS*, pages 226–242, Houston, USA, November, 2002.
- 9:6(3)**. R. Grosu and D. Nazareth. Towards a new way of parameterization. In *Proc. of the 3rd Maghrebian Conference on Software Engineering and Artificial Intelligence*, pages 383–392, Rabat, Marocco, April 1994.
- 8:6(2)**. R. Grosu, X. Huang, S. Jain and S. A. Smolka. Open source model checking. In *Proc. of SoftMC'05, the 3rd Int. Workshop on Software Model Checking*, ENTCS 144(3): 27–44, Edinburgh, Scotland, July, 2005.
- 6:2(4)**. R. Grosu, D. Lucanu and G. Stefanescu. Mixed relations as enriched semiringal categories. *Journal of Universal Computer Science (JUCS)*, 6(1): 112–129, 2000.
- 6:2(4)**. E. Bartocci, F. Corradini, E. Entcheva, R. Grosu and S.A. Smolka. CellExcite: An efficient simulation environment for excitable cells. In *BMC Bioinformatics* 9(2): 1–13, March, 2008.
- 5:4(1)**. R. Grosu, I. Krueger and T. Stauner. Requirements specification of an automotive system with hybrid sequence charts. In *Proc. WORDS'99, the 5th Int. Workshop on Object-oriented Real-time Dependable Systems*, pages 149–154, IEEE Press, Monterey, California, 1999.
- 4:3(1)**. R. Grosu, Y.A. Liu, S.A. Smolka, S.D. Stoller and J. Yan. Automated software engineering using concurrent class machines. In *Proc. of ASE'01, the 16th IEEE International Conference on Automated Software Engineering*, pages 297–307, IEEE Press. San Diego, USA, 2001.
- 4:4(0)**. R. Breu and R. Grosu. Relating events, messages and methods of multiple threaded objects. *The Journal of Object Oriented Programming (JOOP)*, 12(8): 8–14, 2000.

- 4:3(1)**. R. Grosu and S.A. Smolka. Quantitative Model Checking. In *Proc. of ISoLA'04, the 1st International Symposium on Leveraging Applications of Formal Methods*, pages 165–174, Paphos, Cyprus, November, 2004.
- 4:1(3)**. M.R. True, E. Entcheva, S.A. Smolka, P. Ye and R. Grosu. Efficient event-driven simulation of excitable hybrid automata. In *Proc. of EMBS'06, the 28th IEEE International Conference of the Engineering in Medicine and Biology Society*, pages 3150–3153, IEEE Press, New York City, USA, 2006.
- 3:1(2)**. R. Breu and R. Grosu. Modeling the dynamic behavior of objects: On events, messages and methods. In *Proc. Euro-Par'97, the 3rd International Euro-Par Conference*, volume 1300 of *LNCS*, pages 572–587, Passau, Germany, August 1997. Springer Verlag.
- 3:0(3)**. R. Grosu, X. Huang, S.A. Smolka, W. Tan and S. Tripakis. Deep random search for efficient model checking of timed automata. In *Revised Selected Papers of MW'06, the 7th Monterey Workshop on Composition of Embedded Systems*, volume 4888 of *Springer LNCS*, pages 111–124, Paris, France, October, 2008.
- 3:1(2)**. P. Ye, E. Entcheva, M.R. True, S.A. Smolka and R. Grosu. Hybrid automata as a unifying framework for modeling cardiac cells. In *Proc. of EMBS'06, the 28th IEEE International Conference of the Engineering in Medicine and Biology Society*, pages 4151–4154, IEEE Press, New York City, USA, August, 2006.
- 2:2(0)**. S. Callanan, D.J. Dean, M. Gorbovitski, R. Grosu, J. Seyster, S.A. Smolka and E. Zadok. Software Monitoring with Bounded Overhead, In *Proc. of NGS'08, the Next Generation Software Workshop at IPDPS*, pages 1–8, IEEE Press, Miami, Florida, USA, April, 2008.
- 2:0(2)**. R. Grosu, E. Bartocci, F. Corradini, E. Entcheva, S.A. Smolka and A. Wasilewska. Learning and detecting emergent behavior in networks of cardiac myocytes. In *Proc. of HSCC'08, the 11th Int. Conference on Hybrid Systems: Computation and Control*, volume 4981 of *Springer LNCS*, pages 229–243, St. Louis, USA, April, 2008. Extended version in *CACM, the Communications of the ACM*, 52(3): 1–10, March, 2009.
- 2:2(0)**. R. Grosu and D. Nazareth. The specification language Spectrum - Core language report V1.0. In *Technical Report TUM-I9402*, pages 1–32, Technische Universität München, 1994.
- 2:0(2)**. E. Bartocci, F. Corradini, R. Grosu, E. Merelli, O. Riganelli and S.A. Smolka. StonyCam: a formal framework for modeling, analyzing and regulating cardiac myocytes. In *Concurrency, Graphs and Models*, volume 5065 of *Springer LNCS*, pages 493–502, June, 2008.
- 2:0(2)**. E. Bartocci, F. Corradini, M.R. Di Berardini, E. Entcheva, R. Grosu and S.A. Smolka. Spatial Networks of Hybrid I/O Automata for Modeling Excitable Tissue. In *Proc. of FBTC'07, the International Workshop From Biology to Concurrency and Back*, ENTCS 194(3): 51–67, Lisbon, September, 2007.

- 1:1(0)**. R. Grosu, X. Huang, S.A. Smolka and P. Yang. Monte Carlo analysis of security protocols: Needham-Schroeder revisited. In *Proc. of DIMACS Workshop on Security Analysis of Protocols*, Rutgers University, 2004.
- 1:0(1)**. R. Grosu, E. Zadok, S.A. Smolka, R. Cleaveland and Y.A. Liu. High-confidence operating systems. In *Proc. of EW'02, the 10th ACM SIGOPS European Workshop: Can we really depend on an OS?*, pages 205–208, ACM Press, Saint-Emilion, France, 2002.
- 1:1(0)**. P. Ye, E. Entcheva, S.A. Smolka and R. Grosu. Symbolic analysis of the neuron. In *Proc. of ICBBE'08, the 2nd International Conference on Bioinformatics and Biomedical Engineering*, pages 836–839, IEEE Press, Shanghai, China, May, 2008.
- 1:1(0)**. P. Ye, R. Grosu, S.A. Smolka and E. Entcheva. Formal analysis of abnormal excitation in cardiac tissue. In *Proc. of CMSB'08, the 6th Int. Conference on Computational Methods in Systems Biology*, volume of *Springer LNBI*, pages , Rostock, Germany, October, 2008.
- 1:1(0)**. S. Callanan, R. Grosu, J. Seyster, S.A. Smolka and E. Zadok. Model predictive control for memory profiling. In *Proc. of NGS'07, the Next Generation Software Workshop at IPDPS*, pages 1–7, IEEE Press, Long Beach, California, March, 2007.
- 1:1(0)**. R. Grosu and S.A. Smolka. Monte Carlo methods for process algebra. *Proc. of the Int. Workshop on Algebraic Process Calculi: The First Twenty Five Years and Beyond*, Electronic Notes in Theoretical Computer Science 162(1): 203–207, Bertinoro, Italy, 2006.