

Expository Papers

EGON BÖRGER

1 Expository Papers

1. **Die rekursive Unlösbarkeit des zehnten Hilbertschen Problems.**
in: A.I.Malcev: *Algorithmen und rekursive Funktionen*, Anhang.
Vieweg-Verlag, Braunschweig 1974, pp.307-320.
2. **From decision problems to problems of complexity.**
in: *Atti del Convegno Internazionale di Storia della Logica*, V. M Abrusci,
E. Casari, M. Mugnai (Eds.), CLUEB, Bologna 1983, pp. 211 - 215.
3. **Complexity of Logical Decision Problems: An Introduction.**
in: *Bridging the Gap: Philosophy, Mathematics, Physics* (G.Corsi et al.,
eds), Kluwer Academic Publishers, 1993, pp.71-86
= IBM Germany, IWBS Report 143, October 1989, pp.12
4. **Dynamische Algebren und Semantik von Programmiersprachen.**
in: E.Börger: *Berechenbarkeit, Komplexität, Logik*, Anhang.
Vieweg Verlag, Wiesbaden 1992, 3. Auflage, pp. 476-499.
5. **Review of:** E.W.Dijkstra & C.S.Scholten: *Predicate Calculus and Program Semantics*. Springer-Verlag, 1989.
in:
 - *Science of Computer Programming* 23 (1994) 1-11
 - *The Journal of Symbolic Logic* 59 (1994) 673-678 (abridged version)
6. **Annotated Bibliography on Evolving Algebras.**
In: *Specification and Validation Methods* (E.Börger, Ed.), Oxford University Press, 1995, pp.37-52
7. **Modelling and Analysis of Distributed and Reactive Systems using Evolving Algebras.**
(With U. Glässer)
In: Yuri Gurevich and Egon Börger, "Evolving Algebras. Mini-Course",

Technical Report BRICS-NS-95-4, BRICS, University of Aarhus, July 1995, pp.27.

8. **The Steam Boiler Case Study: Competition of Formal Program Specification and Developments Methods.**
With J.-R. Abrial and H. Langmaack
In: J.-R. Abrial, E.Börger, H. Langmaack (Eds.): *Formal Methods for Industrial Applications. Specifying and Programming the Steam-Boiler Control*. Springer LNCS State-of-the-Art Survey, vol. 1165, 1996, 1–12.
9. **Ten Years of Gurevich’s Abstract State Machines.**
In: Journal of Universal Computer Science 3,4 (1997) 231-233.
<http://www.iicm.edu/jucs>
10. **Introduction to JUICS Special ASM Issue. Part II**
In: Journal of Universal Computer Science 3,5 (1997), 414-415.
<http://www.iicm.edu/jucs>
11. **Ten Years of CSL Conferences (1987-1997).**
In: EATCS Bulletin 63, October 1997, 61-63 (Talk presented to the EACSL 1997 Membership Meeting in Aarhus, August 1997).
12. **Abstract State Machines 1988-1998: Commented ASM Bibliography.**
With Jim Huggins.
In: Formal Specification Column (H.Ehrig, Ed.), EATCS Bulletin 64, February 1998, pp.105-127.
13. **Abstract State Machines and their Industrial Employment: A Survey.**
In: Proc. *Fifth NASA Langley Formal Methods Workshop*, Williamsburgh, Virginia, USA, June 13-15, 2000.
<http://shemesh.larc.nasa.gov/fm/Lfm2000/>
14. **From requirements to C++ code via ASM models. A case study: The production cell control program.**
In: Proc. *Fifth NASA Langley Formal Methods Workshop*, Williamsburgh, Virginia, USA, June 13-15, 2000.
<http://shemesh.larc.nasa.gov/fm/Lfm2000/>
15. **Using Abstract State Machines in Requirements Engineering.**
In: Fourth IEEE International Conference on Requirements Engineering (ICRE2000), Tutorial T3, pp. 54, June 19-23, 2000, Schaumburg, Illinois, USA.
16. **Yuri Gurevich: The Evolution of a Research Life from Algebra through Logic to Computer Science.**

- In: P. Clote and H. Schwichtenberg (Eds): Computer Science Logic (Gurevich Festschrift). Proc. 14th International Workshop CSL. Springer LNCS 1862, 2000, VIII-X
17. **The Light Control Case Study—A Synopsis.**
 (With R. Gotzhein). Journal of Universal Computer Science vol.6, no.7 (2000), 582-585.
<http://www.jucs.org/>
 18. **J.UCS Special Issue on Requirements Engineering. The Light Control Case Study.**
 (With R. Gotzhein). Journal of Universal Computer Science vol.6, no.7 (2000), 580-581. <http://www.jucs.org/>
 19. **Design for Reuse via Structuring Techniques for ASMs.**
 Roberto Moreno-Diaz, Bruno Buchberger, Jose-Luis Freire (Eds.): Computer Aided Systems Theory - EUROCAST 2001
 Springer LNCS 2178, 2001, ISSN 0302-9743, ISBN 3- 540-42959-X Springer - Verlag Berlin Heidelberg New York, pp.20-35.
 20. **Abstract State Machines 2001: New Developments and Applications.** (With U. Glässer)
 J.UCS Special Issue on Abstract State Machines, November 2001, Vol.7 (11) 914-916 JUCS ISSN 0948-695x.
 21. **ASM 2003—A double anniversary in Sicily.**
 in: E. Börger and A. Gargantini and E. Riccobene (Eds.), *Abstract State Machines 2003—Advances in Theory and Applications*, Springer LNCS 2589, 2003, pp. 1-3, Proc. of 10th International Workshop on Abstract State Machines, Taormina (Sicily), March 2003
 22. **Teaching ASMs to Practice-Oriented Students with Limited Mathematical Background.**
 Proc. *Teaching Formal Methods* 2003, Oxford Brookes University, pp. 5-12
 23. **Modeling with Abstract State Machines: A support for accurate system design and analysis.**
 In: B. Rumpe and W. Hesse (Eds.): *Modellierung 2004*, Springer LNI Series Vol.P-45, pp.235-239, 2004. ISBN 3 888 57 93741
 24. **Abstract State Machines and High-Level System Design and Analysis.**
 Editorial to special ASM issue of *Theoretical Computer Science* 336 (2005) 205-207

25. **The ASM Method: a Cornerstone in Computer Science Education.**
D. Beauquier and E. Börger and A. Slissenko (Eds): Proc.ASM05, Université de Paris 12, 2005, pp.49-56.
26. **20 Years after A New Thesis: The Diversification of the ASM Method.**
D. Beauquier and E. Börger and A. Slissenko (Eds): Proc.ASM05, Université de Paris 12, 2005, pp.5-9.
27. E. Börger, **Using Abstract State Machines for the Description and the Analysis of Formal Systems.**
C. Mereghetti, B. Palano, G. Pighizzini, D. Wotschke (Eds.): Proc. Seventh International Workshop on Descriptive Complexity of Formal Systems. Como, 30.6.-2.7. 2005. TR 06-05 Dip. Informatica e Comunicazione, Università di Milano, pp. 15-22.
28. E. Börger and A. Slissenko, **The Abstract State Machines Method.**
In: Special ASM'05 Issue of Fundamenta Informaticae, Vol. 77 (1-2) 2007, Editorial, pp.i-iv.
29. E. Börger, **A Tribute to Dean Rosenzweig.** Abstract State Machines Research Center TR 2007.2, pp.1-6 (www.asmcenter.org)
30. E. Börger and A. Prinz, **Quo vadis Abstract State Machines?**
Editorial for: Special ASM'07 Issue of J. Universal Computer Science, vol.14 (12), pp. 1921-1928, 2008. ISSN 0948-695x, Online edition ISSN 0948-6968.
31. E. Börger and A. Cisternino, **The Lipari Summer School 2007 on Software Engineering**
Springer LNCS 5316 (2008), Editorial.
32. **Editorial to: Formal Aspects of Computing: Volume 23, Issue 1.**
With Jonathan P. Bowen, Michael Butler, Michael Poppleton. 2011, pages 1-2.
ISSN 0934-5043. DOI: 10.1007/s00165-010-0168-x. UR - <http://dx.doi.org/10.1007/s00165-010-0168-x>. See also

<http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s00165-010-0168-x>