

References

- [1] J. Hooman and W.P. de Roever. The quest goes on: a survey of proof systems for partial correctness of CSP. In *Current Trends in Concurrency*, pages 343–395. LNCS 224, Springer-Verlag, 1986.
- [2] J. Hooman. A compositional proof theory for real-time distributed message passing. In *Parallel Architectures and Languages Europe*, pages 315–332. LNCS 259, Springer-Verlag, 1987.
- [3] R. K. Shyamasundar, J. Hooman, and R. Gerth. Reasoning of real-time distributed programming languages. *SIGSOFT Software Engineering Notes, Proc. 5th Int. Workshop on Software Specification and Design*, 14(3):91–99, 1989.
- [4] J. Hooman and J. Widom. A temporal-logic based compositional proof system for real-time message passing. In *Parallel Architectures and Languages Europe*, volume II, pages 424–441. LNCS 366, Springer-Verlag, 1989.
- [5] J. Hooman and W.P. de Roever. Design and verification in real-time distributed computing: an introduction to compositional methods. In *Protocol Specification, Testing and Verification, IX*, pages 37–56. North-Holland, 1990.
- [6] J. Hooman. Compositional verification of distributed real-time systems. In *Proceedings Workshop on Real-Time Systems - Theory and Applications*, pages 1–20. North-Holland, 1990.
- [7] J. Hooman, S. Ramesh, and W.P. de Roever. A compositional axiomatisation of safety and liveness properties of Statecharts. In *Semantics for Concurrency*, Workshops in Computing, pages 242–261. Leicester, Springer-Verlag, 1990.
- [8] J. Hooman. A denotational real-time semantics for shared processors. In *Parallel Architectures and Languages Europe*, volume II, pages 184–201. LNCS 506, Springer-Verlag, 1991.
- [9] J. Hooman and W.P. de Roever. Verification and specification of concurrent programs. Technical report 9111, Institut für Informatik und Praktische Mathematik, Kiel University, 1991.
- [10] J. Hooman. Specification and verification of real-time systems using metric temporal logic. In *ICYCS'91*, pages 300–304. International Academic Publishers, China, 1991.
- [11] J. Hooman. *Specification and Compositional Verification of Real-Time Systems*. LNCS 558, Springer-Verlag, 1991.
- [12] J. Hooman, R. Kuiper, and Ping Zhou. Compositional verification of real-time systems using explicit clock temporal logic. In *Proceedings 6th Int. Workshop on Software Specification and Design*, pages 110–117. IEEE, 1991.
- [13] J. Coenen and J. Hooman. A compositional semantics for fault-tolerant real-time systems. In *Proceedings Formal Techniques in Real-Time and Fault-Tolerant Systems*, pages 33–51. LNCS 571, Springer-Verlag, 1992.

- [14] F. de Boer and J. Hooman. The real-time behaviour of asynchronously communicating processes. In *Proceedings Formal Techniques in Real-Time and Fault-Tolerant Systems*, pages 451–472. LNCS 571, Springer-Verlag, 1992.
- [15] J. Hooman and W.P. de Roever. An introduction to compositional methods for concurrency and their application to real-time. In *Sādhanā, Academy Proceedings in Engineering Sciences*, volume 17, Part 1, pages 29–73. Indian Academy of Sciences, 1992.
- [16] J. Hooman. A compositional method for the top-down design of real-time systems. In *Proceedings 4th Euromicro Workshop on Real-Time Systems*, pages 86–91. IEEE, 1992.
- [17] J. Hooman. Top-down design of embedded real-time AI systems. In *Preprints Proceedings Symposium on Artificial intelligence in Real-Time Control*, pages 129–134. IEEE, 1992.
- [18] J. Hooman and W.P. de Roever. The application of compositional proof methods to real-time. In *Preprints Proceedings Symposium on Artificial intelligence in Real-Time Control*, pages 134–144. IEEE, 1992.
- [19] J. Hooman, S. Ramesh, and W.P. de Roever. A compositional axiomatization of Statcharts. *Theoretical Computer Science*, 102:289–335, 1992.
- [20] J. Hooman. Compositional verification of real-time systems using extended Hoare triples. In *REX Workshop on Real-Time: Theory in Practice*, pages 252–290. LNCS 600, Springer-Verlag, 1992.
- [21] P. Zhou and J. Hooman. A proof theory for asynchronously communicating real-time systems. In *Proceedings IEEE Real-Time Systems Symposium*, pages 177–186, 1992.
- [22] J. Coenen and J. Hooman. Parameterized semantics for fault tolerant real-time systems. In J. Vytupil, editor, *Formal Techniques in Real-Time and Fault-Tolerant Systems*, pages 51–78. Kluwer Academic Publishers, 1993.
- [23] J. Hooman. Specification and verification of a distributed real-time arbitration protocol. In *Proceedings 14th IEEE Real-Time Systems Symposium*, pages 284–293. IEEE, 1993.
- [24] J. Hooman. A compositional approach to the design of hybrid systems. In *Workshop on Theory of Hybrid Systems*, pages 121–148. LNCS 736, 1993.
- [25] H. Schepers and J. Hooman. Trace-based compositional reasoning about fault tolerant systems. In *Parallel Architectures and Languages Europe*, pages 197–208. LNCS 694, Springer-Verlag, 1993.
- [26] J. Hooman. Compositional verification of a distributed real-time arbitration protocol. *Real-Time Systems*, 6(2):173–205, 1994.
- [27] H. Schepers and J. Hooman. A trace-based compositional proof theory for fault tolerant distributed systems. *Theoretical Computer Science*, 128:127–157, 1994.
- [28] J. Hooman. Correctness of real time systems by construction. In *Formal Techniques in Real-Time and Fault-Tolerant Systems*, pages 19–40. LNCS 863, Springer-Verlag, 1994.

- [29] Y. Lakhneche and J. Hooman. Reasoning about durations in metric temporal logic. In *Formal Techniques in Real-Time and Fault-Tolerant Systems*, pages 488–510. LNCS 863, 1994.
- [30] J. Hooman. Extending Hoare logic to real-time. *Formal Aspects of Computing*, 6(6A):801–825, 1994.
- [31] P. Zhou and J. Hooman. Specification and verification of an atomic broadcast protocol. In *Proceedings 4th IFIP Conference on Dependable Computing for Critical Applications*, pages 196–207, 1994.
- [32] J. Hooman. An assertional method for real-time hybrid systems. In *Symposium ADPM '94 Automation of Mixed Processes: Dynamical Hybrid Systems*, pages 67–75. IBRA, 1994.
- [33] J. Hooman. Specification and verification of a distributed real-time arbitration protocol. In J. Zalewski, editor, *Advanced Multiprocessor Bus Architectures*, pages 301–310. IEEE, 1995.
- [34] Y. Lakhneche and J. Hooman. Metric temporal logic with durations. *Theoretical Computer Science*, 138(1):169–199, 1995.
- [35] J. Hooman and J. Vain. An integrated technique for developing real-time systems. In *Proceedings 7th Euromicro Workshop on Real-Time Systems*, pages 236–243. IEEE, 1995.
- [36] P. Zhou and J. Hooman. Specification and verification of an atomic broadcast protocol. In F. Cristian, G. Le Lann, and T. Lunt, editors, *Dependable Computing for Critical Applications 4*, volume 9 of *Dependable Computing and Fault-Tolerant Systems*, pages 291–308. Springer-Verlag, 1995.
- [37] P. Zhou and J. Hooman. Formal specification and compositional verification of an atomic broadcast protocol. *Real-Time Systems*, 9(2):119–145, 1995.
- [38] J. Hooman. Verifying part of the ACCESS.bus protocol using PVS. In *Proceedings 15th Conference on the Foundations of Software Technology and Theoretical Computer Science*, pages 96–110. LNCS 1026, Springer-Verlag, 1995.
- [39] P. Zhou, J. Hooman, and R. Kuiper. Compositional verification of real-time systems with explicit clock temporal logic. *Formal Aspects of Computing*, 8:294–323, 1996.
- [40] J. Hooman. Using PVS for an assertional verification of the RPC-memory specification problem. In *Formal Systems Specification; The RPC-Memory Specification Case Study*, pages 275–304. LNCS 1169, Springer-Verlag, 1996.
- [41] J. Hooman. Assertional specification and verification. In M. Joseph, editor, *Real-time Systems: Specification, Verification and Analysis*, chapter 5, pages 97–146. Prentice Hall, 1996.
- [42] J. Vitt and J. Hooman. Assertional specification and verification using PVS of the steam boiler control system. In J.-R. Abrial, E. Börger, and H. Langmaack, editors,

- Formal Methods for Industrial Applications: Specifying and Programming the Steam Boiler Control*, pages 453–472. LNCS 1165, Springer-Verlag, 1996.
- [43] J. Hooman and J. Vain. Integrating methods for the design of real-time systems. *Journal of Systems Architecture*, 42(6 & 7):489–825, 1996.
 - [44] J. Hooman and O. van Roosmalen. Timed-event abstraction and timing constraints in distributed real-time programming. In *Proceedings 3th International Workshop on Object-Oriented Real-Time Dependable Systems*, pages 153–160. IEEE Computer Society Press, 1997.
 - [45] L. Kühne, J. Hooman, and W.P. de Roever. Towards mechanical verification of parts of the IEEE P1394 serial bus. In I. Lovrek, editor, *2nd International Workshop on Applied Formal Methods in System Design*, pages 73–85. University of Zagreb, Faculty of Electrical Engineering and Computing, 1997.
 - [46] J. Hooman and O. van Roosmalen. Platform-independent verification of real-time programs. In *Proceedings of the Joint Workshop on Parallel and Distributed Real-Time Systems*, pages 183–192. IEEE Computer Society Press, 1997.
 - [47] J. Hooman. Verification of distributed real-time and fault-tolerant protocols. In *Algebraic Methodology and Software Technology (AMAST'97)*, pages 261–275. LNCS 1349, Springer-Verlag, 1997.
 - [48] J. Hooman and J. Vain. Combining conceptual modeling and formal methods to design control systems. In M. Haverlaen and O. Owe, editors, *Selected Papers from the 8th Nordic Workshop on Programming Theory*, pages 109–118. Research Report 248, Dept. of Informatics, University of Oslo, 1997.
 - [49] J. Hooman. Formal verification of the binary exponential backoff protocol. *Proc. of the Estonian Academy of Sciences*, 4(2):89–105, 1998.
 - [50] J. Hooman. Compositional verification of real-time applications. In *Compositionality – The Significant Difference (COMPOS '97)*, pages 276–300. LNCS 1536, Springer-Verlag, 1998.
 - [51] J. van de Pol, J. Hooman, and E. de Jong. Formal requirements specification for command and control systems. In *Proceedings of the Conference on Engineering of Computer-Based Systems*, pages 37–44. IEEE, 1998.
 - [52] J. Hooman and O. van Roosmalen. Formal design of real-time systems in a platform-independent way. *Journal of Parallel and Distributed Computing Practices*, 1(2):15–30, 1998.
 - [53] J. Hooman. Developing proof rules for distributed real-time systems with PVS. In J. Peleska B. Buth, R. Berghammer, editor, *Proceedings of the Workshop on Tool Support for System Development and Verification*, volume 1 of *BISS Monographs*, pages 120–139. Shaker Verlag, Aachen, 1998.
 - [54] T. Basten and J. Hooman. Process algebra in PVS. In *Proceedings TACAS'99*, pages 270–284. LNCS 1579, Springer-Verlag, 1999.

- [55] J. van de Pol, J. Hooman, and E. de Jong. Modular formal specification of data and behaviour. In K. Taguchi K. Araki, A. Galloway, editor, *Proceedings 1st Conference on Integrated Formal Methods (IFM'99)*, pages 109–128. Springer-Verlag, 1999.
- [56] D. Chkhaev, J. Hooman, and P. van der Stok. Serializability preserving extensions of concurrency control protocols. In *Andrei Ershov International Conference on Perspectives of Systems Informatics*, pages 180–193. LNCS 1755, Springer-Verlag, 1999.
- [57] R. Bloo, J. Hooman, and E. de Jong. Semantical aspects of an architecture for distributed embedded systems. In *Proceedings Symposium on Applied Computing (SAC2000)*, volume 1, pages 149–155. ACM, 2000.
- [58] D. Chkhaev, P. van der Stok, and J. Hooman. Mechanical verification of a non-blocking atomic commitment protocol. In *The 2000 ICDCS Workshop on Distributed System Validation and Verification (DSVV'2000)*, pages E96–E103. IEEE, 2000.
- [59] E. de Jong, J. van de Pol, and J. Hooman. Refinement in requirements specification and analysis: a case study. In *Proceedings of the 7th IEEE International Conference on Engineering of Computer-Based Systems (ECBS)*, pages 290–298. IEEE, 2000.
- [60] J. Hooman and O. van Rosmalen. An approach to platform independent real-time programming: (1) formal description. *Real-Time Systems, Journal of Time-Critical Computing Systems*, 19(1):61–85, 2000.
- [61] J. Hooman and O. van Rosmalen. An approach to platform independent real-time programming: (2) practical application. *Real-Time Systems, Journal of Time-Critical Computing Systems*, 19(1):87–112, 2000.
- [62] D. Chkhaev, J. Hooman, and P. van der Stok. Formal modeling and analysis of atomic commitment protocols. In *Seventh International Conference on Parallel and Distributed Systems*, pages 151–158. IEEE, 2000.
- [63] A. de Groot and J. Hooman. Analyzing the light control system with PVS. *Journal of Universal Computer Science*, 6(7):621–649, 2000.
- [64] D. Chkhaev, J. Hooman, and P. van der Stok. Mechanical verification of transaction processing systems. In *Proc. 3th Int. Conf. on Formal Engineering Methods (ICFEM 2000)*, pages 89–97. IEEE, 2000.
- [65] D.K. Hammer, J. Hooman, M.A. Reniers, O. van Rosmalen, and A. Sintotski. Design of the mine pump control system. Computing Science Report 01-05, Department of Mathematics and Computing Science, Eindhoven University of Technology, The Netherlands, 2001.
- [66] A. Sintotski, D. Hammer, O. van Rosmalen, and J. Hooman. Formal platform-independent design of real-time systems. In *Proceedings 13th Euromicro Conference on Real-Time Systems*, pages 163–170. IEEE, 2001.
- [67] U. Hannemann and J. Hooman. Formal design of real-time components on a shared data space architecture. In *Proceedings of the Annual International Computer Software and Applications Conference (COMPSAC 01)*, pages 143–150. IEEE, 2001.

- [68] J. Hooman and O. van Roosmalen. Formal design of real-time systems in a platform-independent way. In L.R. Welch and D.K. Hammer, editors, *Engineering of Distributed Control Systems*, chapter 2, pages 19–39. Nova Science Publishers, 2001.
- [69] A. de Groot, J. Hooman, F. Kordon, E. Paviot-Adet, I. Mounier, M. Lemoine, G. Gaudiere, V. Winter, and D. Kapur. A survey: Applying formal methods to a software intensive system. In *Proceedings of the High-Assurance Systems Engineering Workshop (HASE 01)*, pages 55–64. IEEE, 2001.
- [70] A. de Groot and J. Hooman. Formal requirements engineering. In *Proceedings of the 2nd workshop on Embedded Systems, PROGRESS 2001*, pages 55–59, 2001.
- [71] J. Hooman and J. van de Pol. Verifying replication on a distributed shared data space with time stamps. In *Proceedings of the 2nd workshop on Embedded Systems, PROGRESS 2001*, pages 107–121, 2001.
- [72] W.P. de Roever, F. de Boer, U. Hannemann, J. Hooman, Y. Lakhnech, M. Poel, and J. Zwiers. *Concurrency Verification, Introduction to Compositional and Noncompositional Methods*. Cambridge Tracts in Theoretical Computer Science. Cambridge University Press, 2001.
- [73] J. Hooman and J. van de Pol. Formal verification of replication on a distributed data space architecture. In *Proceedings Symposium on Applied Computing (SAC 2002)*, pages 351–358, 2002.
- [74] U. Hannemann and J. Hooman. Formal reasoning about real-time components on a data-oriented architecture. In *Proceedings of 6th World Multiconference on Systemics, Cybernetics and Informatics (SCI02)*, volume XI, pages 313–318, 2002.
- [75] D. Chklyev, J. Hooman, and E. de Vink. Formal verification of an improved sliding window protocol. In *Proceedings of the 3d PROGRESS Workshop on Embedded Systems*, Utrecht, the Netherlands, pages 18–27. Technology Foundation STW, 2002. ISBN 90-73461-34-0.
- [76] J. Hooman. Towards formal support for UML-based development of embedded systems. In *Proceedings of the 3d PROGRESS Workshop on Embedded Systems*, Utrecht, the Netherlands, pages 71–76. Technology Foundation STW, 2002. ISBN 90-73461-34-0.
- [77] D. Chklyev, J. Hooman, and E. de Vink. Verification and improvement of the sliding window protocol. In *Proceedings TACAS'03*, pages 113–127. LNCS 2619, Springer-Verlag, 2003.
- [78] M. Layouni, J. Hooman, and S. Tahar. Modeling and verification of leaders agreement in the intrusion-tolerant enclaves using pvs. In D. Basin and B. Wolff, editors, *Emerging Trends Proceedings of TPHOLS 2003*, pages 145–158. Technical Report No. 187, Universität Freiburg, 2003.
- [79] M. Layouni, J. Hooman, and S. Tahar. On the correctness of an intrusion-tolerant group communication protocol. In *Proceedings 12th Conference on Correct Hardware Design and Verification Methods (CHARME 2003)*, pages 231–246. LNCS 2860, 2003.

- [80] J. Hooman and J. van de Pol. Equivalent semantic models for a distributed dataspace architecture. In *Proceedings Symposium on Formal Methods for Objects and Components (FMCO 2002)*, pages 182–201. LNCS 2852, Springer-Verlag, 2003.
- [81] M. van der Zwaag and J. Hooman. A semantics of communicating reactive objects with timing. In *Proceedings Workshop on Specification and Validation of UML models for Real-Time Embedded Systems (SVERTS 2003)*, pages 59–67. Verimag, 2003.
- [82] J. Hooman, N. Mulyar, and L. Posta. Supporting model-based simulation of embedded systems by coupling tools. In *Proceedings of the 5th PROGRESS Symposium on Embedded Systems*, pages 131–134. Technology Foundation STW, 2004.
- [83] J. Hooman, N. Mulyar, and L. Posta. Validating UML models of embedded systems by coupling tools. In *Proceedings Workshop on Specification and Validation of UML models for Real-Time and Embedded Systems (SVERTS 2004)*. Verimag, 2004.
- [84] S. Graf and J. Hooman. Correct development of embedded systems. In *Proceedings of the First European Workshop on Software Architecture (EWSA 2004)*, pages 241–249. LNCS 3047, Springer-Verlag, 2004.
- [85] T. Arons, J. Hooman, H. Kugler, A. Pnueli, and M. van der Zwaag. Deductive verification of UML models in TLPVS. In *Proceedings UML 2004*, pages 335–349. LNCS 3273, Springer-Verlag, 2004.
- [86] J. Hooman, N. Mulyar, and L. Posta. Coupling Simulink and UML models. In B. Schnieder and G. Tarnai, editors, *Proceedings of Symposium FORMS/FORMATS 2004*, pages 304–311, 2004.
- [87] M. Kyas, H. Fecher, F.S. de Boer, J. Jacob, J. Hooman, M. van der Zwaag, T. Arons, and H. Kugler. Formalizing UML models and OCL constraints in PVS. In *Proc. Semantic Foundations of Engineering Design Languages (SFEDL'04)*, volume 115, pages 39–47. Electronic Notes in Theoretical Computer Science (ENTCS), 2005.
- [88] J. Hooman and J. van de Pol. Semantic models of a timed distributed dataspace. *Theoretical Computer Science*, 331:291–323, 2005.
- [89] J. Hooman and M. van der Zwaag. A semantics of communicating reactive objects with timing. *Int. Journal on Software Tools for Technology Transfer (STTT)*, 8(4):97–112, 2006.
- [90] M. Kyas and J. Hooman. Compositional verification of timed components using PVS. In B. Biel, M. Book, and V. Gruhn, editors, *Proceedings of Software Engineering 2006*, volume P-79 of *Lecture Notes in Informatics*, pages 143–154, 2006.
- [91] M. Verhoef, P.G. Larsen, and J. Hooman. Modeling and validating distributed embedded real-time systems with VDM++. In *Formal Methods (FM'06)*, pages 147–162. LNCS 4085, Springer-Verlag, 2006.
- [92] J. Hooman. Simulating the environment of embedded software. In M. Heemels and G. Muller, editors, *Boderc: Model-based design of high-tech systems*, chapter 11, pages 141–149. Embedded Systems Institute, Eindhoven, The Netherlands, 2006.

- [93] M. Verhoef and J. Hooman. Evaluating embedded system architectures. In M. Heemels and G. Muller, editors, *Boderc: Model-based design of high-tech systems*, chapter 12, pages 151–159. Embedded Systems Institute, Eindhoven, The Netherlands, 2006.
- [94] M. Verhoef, P. Visser, J. Hooman, and J. Broenink. Co-simulation of distributed embedded real-time control systems. In *Integrated Formal Methods (IFM'07)*, pages 639–658. LNCS 4591, Springer-Verlag, 2007.
- [95] M. Layouni, J. Hooman, and S. Tahar. Formal specification and verification of the intrusion-tolerant Encalves protocol. *International Journal of Network Security*, 5(3):288–298, 2007.
- [96] E. Brinksma and J. Hooman. Dependability for high-tech systems: an industry-as-laboratory approach. In *Design, Automation & Test in Europe (DATE'08)*, pages 1226–1231. European Design and Automation Association (EDAA), 2008.
- [97] J. Hooman and T. Hendriks. Model-based run-time error detection. In *Models in Software Engineering, Workshops and Symposia at MoDELS 2007*, pages 225–236. LNCS 5002, Springer-Verlag, 2008.
- [98] J. Hooman, H. Kugler, I. Ober, A. Votintseva, and Y. Yushtein. Supporting UML-based Development of Embedded Systems by Formal Techniques. *Software and Systems Modeling*, 7(2):131–155, 2008.
- [99] J. Hooman and M. Verhoef. Formal semantics of a VDM extension for distributed embedded systems. In *de Roever Festschrift*, pages 142–161. LNCS 5930, Springer-Verlag, 2010.
- [100] S.D. Vermolen, J. Hooman, and P.G. Larsen. Proving consistency of VDM models using HOL. In *Proceedings 25th Symposium on Applied Computing (SAC 2010)*, pages 2503–2510. ACM, 2010.
- [101] L. Li, J. Hooman, and J. Voeten. Connecting technical and non-technical views of system architectures. In *Proceedings 3rd IEEE/ACM International Conference on Cyber, Physical and Social Computing (CPSCoM2010)*, pages 592–600. IEEE Computer Society, 2010.
- [102] J. Hooman, R. Huis in 't Veld, and M. Schuts. Experiences with a compositional model checker in the healthcare domain. In *Foundations of Health Information Engineering and Systems (FHIES 2011)*, pages 93–110. LNCS 7151, Springer-Verlag, 2012.
- [103] R. Doornbos, J. Hooman, and B. van Vlimmeren. Complementary verification of embedded software using ASD and Uppaal. In *Proceedings 8th International Conference on Innovations in Information Technology (IIT'12)*, pages 60–65, 2012.
- [104] J. Hooman, A.J. Mooij, and H. van Wezep. Early fault detection in industry using models at various abstraction levels. In *Proceedings 9th International Conference on Integrated Formal Methods (iFM 2012)*, pages 268–282. LNCS 7321, Springer-Verlag, 2012.

- [105] A. Osaiweran, M. Schuts, J. Hooman, and J. Wesselius. Incorporating formal techniques into industrial practice: an experience report. In *Proceedings 9th International Workshop on Formal Engineering approaches to Software Components and Architectures (FESCA 2012)*, volume 295, pages 49–63. Electronic Notes in Theoretical Computer Science (ENTCS), 2013.
- [106] A.J. Mooij, J. Hooman, and R. Albers. Gaining industrial confidence for the introduction of domain-specific languages. In *Proceedings 37th Annual Computer Software and Applications Conference (COMPSAC), International Workshop on Industrial Experience in Embedded Systems Design (IEESD)*, pages 662–667. IEEE Computer Society, 2013.
- [107] A. Osaiweran, M. Schuts, and J. Hooman. Experiences with incorporating formal techniques into industrial practice. *Empirical Software Engineering*, 19(4):1169–1194, 2014.
- [108] A.J. Mooij, J. Hooman, and R. Albers. Early fault detection using design models for collision prevention in medical equipment. In *Foundations of Health Information Engineering and Systems (FHIES 2013)*, pages 170 – 187. LNCS 8315, Springer-Verlag, 2014.
- [109] M. Schuts and J. Hooman. Formalizing the concept phase of product development. In *FM 2015: Formal Methods*, pages 605–608. LNCS 9109, Springer International Publishing, 2015.
- [110] A.J. Mooij, G. Eggen, J. Hooman, and H. van Wezep. Cost-effective industrial software rejuvenation using domain-specific models. In *Theory and Practice of Model Transformations (ICMT 2015)*, pages 66–81. LNCS 9152, Springer International Publishing, 2015.
- [111] M. Schuts and J. Hooman. Formal modelling in the concept phase of product development. In *Proc. Conf. on Software Engineering Research & Practice (SERP 2015)*, pages 3–9. WORLDCOMP’15, CSREA Press, USA, 2015.
- [112] M. Schuts and J. Hooman. Using domain specific languages to improve the development of a power control unit. In *Proc. 2015 Federated Conference on Computer Science and Information Systems*, volume 5 of *Annals of Computer Science and Information Systems*, pages 781–788. IEEE, 2015.
- [113] B. Theelen and J. Hooman. Uniting academic achievements on performance analysis with industrial needs. In *12th Int. Conf. on Quantitative Evaluation of Systems (QEST 2015)*, pages 3–18. LNCS 9259, Springer International Publishing, 2015.
- [114] F. van den Berg, J. Hooman, A. Hartmanns, B.R. Haverkort, and A. Remke. Computing response time distributions using iterative probabilistic model checking. In *12th Workshop on Computer Performance Engineering (EPEW 2015)*, pages 208–224. LNCS 9272, Springer International Publishing, 2015.
- [115] F. van den Berg, , B.R. Haverkort, and J. Hooman. Efficiently computing latency distributions by combined performance evaluation techniques. In *VALUETOOLS’15: Proceedings of the 9th EAI International Conference on Performance Evaluation Method-*

- ologies and Tools*, pages 158–163. ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering), 2016.
- [116] A. Osaiweran, M. Schuts, J. Hooman, J.F. Groote, and B. van Rijnsoever. Evaluating the effect of a lightweight formal technique in industry. *International Journal on Software Tools for Technology Transfer (STTT)*, 18(1):93–108, 2016.
 - [117] S. Keshishzadeh, A.J. Mooij, and J. Hooman. Industrial experiences with a formal DSL semantics to check the correctness of generated DSL artifacts. In *Proc. 13th International Workshop on Formal Engineering Approaches to Software Components and Architectures (FESCA)*, volume 205 of *Electronic Proceedings in Theoretical Computer Science*, pages 16–30. Open Publishing Association, 2016.
 - [118] M. Schuts and J. Hooman. Industrial application of domain specific languages combined with formal techniques. In *Proc. Workshop on Real World Domain Specific Languages (RWDSL), Symposium on Code Generation and Optimization (CGO)*, pages 2:1–2:8, 2016.
 - [119] J. Hooman. Industrial application of formal models generated from domain specific languages. In *Theory and Practice of Formal Methods - de Boer Festschrift*, pages 277–293. LNCS 9660, Springer International Publishing, 2016.
 - [120] M. Schuts, J. Hooman, and V. Vaandrager. Refactoring of legacy software using model learning and equivalence checking: an industrial experience report. In *Proc. 12th Conference on integrated Formal Methods (iFM 2016)*, pages 311–325. LNCS 9681, Springer International Publishing, 2016.
 - [121] M. Schuts and J. Hooman. Improving maintenance by creating a DSL for configuring a Fieldbus. In *Proc. Workshop on Domain-Specific Modeling (DSM16)*, pages 28–34. ACM, 2017.
 - [122] T. Nägele and J. Hooman. Co-simulation of cyber-physical systems using HLA. In *Proc. 7th IEEE Annual Computing and Communication Workshop and Conference (CCWC 2017)*, pages 267–272. IEEE, 2017.
 - [123] I. Kurtev, M. Schuts, J. Hooman, and D.-J. Swagerman. Integrating interface modeling and analysis in an industrial setting. In *Proc. 5th Int. Conf. on Model-Driven Engineering and Software Development (MODELSWARD 2017)*, pages 345–352, 2017.
 - [124] T. Nägele and J. Hooman. Rapid construction of co-simulations of cyber-physical systems in HLA using a DSL. In *Proc. 43rd Euromicro Conference on Software Engineering and Advanced Applications (SEAA 2017)*, pages 247–251. IEEE, 2017.
 - [125] F. van den Berg, B.R. Haverkort, and J. Hooman. iDSL: Automated performance evaluation of service-oriented systems. In *ModelEd, TestEd, TrustEd, Essays Dedicated to Ed Brinksma on the Occasion of His 60th Birthday*, pages 214–236. LNCS 10500, Springer International Publishing, 2017.
 - [126] I. Kurtev, J. Hooman, and M. Schuts. Runtime monitoring based on interface specifications. In *ModelEd, TestEd, TrustEd, Essays Dedicated to Ed Brinksma on the Occasion of His 60th Birthday*, pages 335–356. LNCS 10500, Springer International Publishing, 2017.

- [127] B. Akesson, J. Hooman, R. Dekker, W. Ekkelkamp, and B. Stottelaar. Pain-mitigation techniques for model-based engineering using domain-specific languages. In *Proc. 6th Int. Conf. on Model-Driven Engineering and Software Development (MODELSWARD 2018)*, pages 752–764, 2018.