

## References

- [1] Heba Aamer et al. “Executable First-Order Queries in the Logic of Information Flows”. en. In: Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2020. DOI: 10.4230/LIPICS.ICDT.2020.4. URL: <https://drops.dagstuhl.de/opus/volltexte/2020/11928/>.
- [2] Messaoud Abbas, Choukri-Bey Ben-Yelles, and Renaud Rioboo. “Formalizing UML/OCL Multiple Inheritance with FoCaLiZe”. In: *2018 International Conference on Smart Communications in Network Technologies (SaCoNeT)*. IEEE, Oct. 2018. DOI: 10.1109/saconet.2018.8585507. URL: <https://doi.org/10.1109%2Fsaconet.2018.8585507>.
- [3] Messaoud Abbas, Choukri-Bey Ben-Yelles, and Renaud Rioboo. “Formalizing UML/OCL structural features with FoCaLiZe”. In: *Soft Computing* 24.6 (July 2019), pp. 4149–4164. DOI: 10.1007/s00500-019-04181-2. URL: <https://doi.org/10.1007%2Fs00500-019-04181-2>.
- [4] Rosa Abbasi et al. “Combining rule- and SMT-based reasoning for verifying floating-point Java programs in KeY”. In: *International Journal on Software Tools for Technology Transfer* 25.2 (Mar. 2023), pp. 185–204. DOI: 10.1007/s10009-022-00691-x. URL: <https://doi.org/10.1007%2Fs10009-022-00691-x>.
- [5] Rosa Abbasi et al. “Deductive Verification of Floating-Point Java Programs in KeY”. In: *Tools and Algorithms for the Construction and Analysis of Systems*. Springer International Publishing, 2021, pp. 242–261. DOI: 10.1007/978-3-030-72013-1\_13. URL: [https://doi.org/10.1007%2F978-3-030-72013-1\\_13](https://doi.org/10.1007%2F978-3-030-72013-1_13).
- [6] Mohammad Abdulaziz, Kurt Mehlhorn, and Tobias Nipkow. “Trustworthy Graph Algorithms (Invited Talk)”. en. In: (2019). DOI: 10.4230/LIPICS.MFCS.2019.1. URL: <http://drops.dagstuhl.de/opus/volltexte/2019/10945/>.
- [7] Kamal Aboul-Hosn and Dexter Kozen. “Relational Semantics for Higher-Order Programs”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2006, pp. 29–48. DOI: 10.1007/11783596\_5. URL: [https://doi.org/10.1007%2F11783596\\_5](https://doi.org/10.1007%2F11783596_5).
- [8] Samson Abramsky. “INFORMATION, PROCESSES AND GAMES”. In: *Philosophy of Information*. Elsevier, 2008, pp. 483–549. DOI: 10.1016/b978-0-444-51726-5.50017-0. URL: <https://doi.org/10.1016%2Fb978-0-444-51726-5.50017-0>.
- [9] Sergio Abriola et al. “Axiomatizations for downward XPath on data trees”. In: *Journal of Computer and System Sciences* 89 (Nov. 2017), pp. 209–245. DOI: 10.1016/j.jcss.2017.05.008. URL: <https://doi.org/10.1016%2Fj.jcss.2017.05.008>.

- [10] Belal Abuhaija et al. “A Model for Securing Islamic Websites: Formal Specification Paradigm: IT Research Center for the Holy Quran and Its Sciences (NOOR), Taibah University, Madinah, Saudi Arabia”. In: *2014 4th International Conference on Artificial Intelligence with Applications in Engineering and Technology*. IEEE, Dec. 2014. DOI: 10.1109/icaiet.2014.23. URL: <https://doi.org/10.1109/2Ficaiet.2014.23>.
- [11] Ole Jørgen Abusdal et al. “I Can See Clearly Now: Clairvoyant Assertions for Deadlock Checking”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 1–18. DOI: 10.1007/978-3-031-08166-8\_1. URL: [https://doi.org/10.1007/2F978-3-031-08166-8\\_1](https://doi.org/10.1007/2F978-3-031-08166-8_1).
- [12] Loredana Afanasiev et al. “PDL for ordered trees”. In: *Journal of Applied Non-Classical Logics* 15.2 (Jan. 2005), pp. 115–135. DOI: 10.3166/janc1.15.115-135. URL: <https://doi.org/10.3166/2Fjanc1.15.115-135>.
- [13] T. Agotnes and N. Alechina. “The Dynamics of Syntactic Knowledge”. In: *Journal of Logic and Computation* 17.1 (Aug. 2006), pp. 83–116. DOI: 10.1093/logcom/exl019. URL: <https://doi.org/10.1093/2Flogcom%2Fexl019>.
- [14] Thomas Ågotnes and Natasha Alechina. “Embedding Coalition Logic in the Minimal Normal Multimodal Logic with Intersection”. In: *Modality, Semantics and Interpretations*. Springer Berlin Heidelberg, 2015, pp. 1–22. DOI: 10.1007/978-3-662-47197-5\_1. URL: [https://doi.org/10.1007/2F978-3-662-47197-5\\_1](https://doi.org/10.1007/2F978-3-662-47197-5_1).
- [15] Thomas Ågotnes and Hans van Ditmarsch. “What will they say?—Public Announcement Games”. In: *Synthese* 179.S1 (Nov. 2010), pp. 57–85. DOI: 10.1007/s11229-010-9838-8. URL: <https://doi.org/10.1007/2Fs11229-010-9838-8>.
- [16] FELICIDAD AGUADO et al. “Linear-Time Temporal Answer Set Programming”. In: *Theory and Practice of Logic Programming* 23.1 (Dec. 2021), pp. 2–56. DOI: 10.1017/s1471068421000557. URL: <https://doi.org/10.1017/2Fs1471068421000557>.
- [17] Hammad Ahmad and Jean-Baptiste Jeannin. “A program logic to verify signal temporal logic specifications of hybrid systems”. In: *Proceedings of the 24th International Conference on Hybrid Systems: Computation and Control*. ACM, May 2021. DOI: 10.1145/3447928.3456648. URL: <https://doi.org/10.1145/2F3447928.3456648>.
- [18] Wolfgang Ahrendt and Richard Bubel. “Functional Verification of Smart Contracts via Strong Data Integrity”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 9–24. DOI: 10.1007/978-3-030-61467-6\_2. URL: [https://doi.org/10.1007/2F978-3-030-61467-6\\_2](https://doi.org/10.1007/2F978-3-030-61467-6_2).

- [19] Wolfgang Ahrendt, Richard Bubel, and Reiner Hähnle. “Integrated and Tool-Supported Teaching of Testing, Debugging, and Verification”. In: *Teaching Formal Methods*. Springer Berlin Heidelberg, 2009, pp. 125–143. DOI: 10.1007/978-3-642-04912-5\_9. URL: [https://doi.org/10.1007%2F978-3-642-04912-5\\_9](https://doi.org/10.1007%2F978-3-642-04912-5_9).
- [20] Wolfgang Ahrendt, Gordon J. Pace, and Gerardo Schneider. “A Unified Approach for Static and Runtime Verification: Framework and Applications”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Technologies for Mastering Change*. Springer Berlin Heidelberg, 2012, pp. 312–326. DOI: 10.1007/978-3-642-34026-0\_24. URL: [https://doi.org/10.1007%2F978-3-642-34026-0\\_24](https://doi.org/10.1007%2F978-3-642-34026-0_24).
- [21] Wolfgang Ahrendt, Andreas Roth, and Ralf Sasse. “Automatic Validation of Transformation Rules for Java Verification Against a Rewriting Semantics”. In: *Logic for Programming, Artificial Intelligence, and Reasoning*. Springer Berlin Heidelberg, 2005, pp. 412–426. DOI: 10.1007/11591191\_29. URL: [https://doi.org/10.1007%2F11591191\\_29](https://doi.org/10.1007%2F11591191_29).
- [22] Wolfgang Ahrendt et al. “A Broader View on Verification: From Static to Runtime and Back (Track Summary)”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Verification*. Springer International Publishing, 2018, pp. 3–7. DOI: 10.1007/978-3-030-03421-4\_1. URL: [https://doi.org/10.1007%2F978-3-030-03421-4\\_1](https://doi.org/10.1007%2F978-3-030-03421-4_1).
- [23] Wolfgang Ahrendt et al. “A Specification Language for Static and Runtime Verification of Data and Control Properties”. In: *FM 2015: Formal Methods*. Springer International Publishing, 2015, pp. 108–125. DOI: 10.1007/978-3-319-19249-9\_8. URL: [https://doi.org/10.1007%2F978-3-319-19249-9\\_8](https://doi.org/10.1007%2F978-3-319-19249-9_8).
- [24] Wolfgang Ahrendt et al., eds. *Deductive Software Verification – The KeY Book*. Springer International Publishing, 2016. DOI: 10.1007/978-3-319-49812-6. URL: <https://doi.org/10.1007%2F978-3-319-49812-6>.
- [25] Wolfgang Ahrendt et al. “KeY: A Formal Method for Object-Oriented Systems”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2007, pp. 32–43. DOI: 10.1007/978-3-540-72952-5\_2. URL: [https://doi.org/10.1007%2F978-3-540-72952-5\\_2](https://doi.org/10.1007%2F978-3-540-72952-5_2).
- [26] Wolfgang Ahrendt et al. “Practical Aspects of Automated Deduction for Program Verification”. In: *KI - Künstliche Intelligenz* 24.1 (Feb. 2010), pp. 43–49. DOI: 10.1007/s13218-010-0001-y. URL: <https://doi.org/10.1007%2Fs13218-010-0001-y>.
- [27] Wolfgang Ahrendt et al. “The KeY Platform for Verification and Analysis of Java Programs”. In: *Verified Software: Theories, Tools and Experiments*. Springer International Publishing, 2014, pp. 55–71. DOI: 10.1007/978-3-319-12154-3\_4. URL: [https://doi.org/10.1007%2F978-3-319-12154-3\\_4](https://doi.org/10.1007%2F978-3-319-12154-3_4).

- [28] Wolfgang Ahrendt et al. “TriCo—Triple Co-piloting of Implementation, Specification and Tests”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Verification Principles*. Springer International Publishing, 2022, pp. 174–187. DOI: 10.1007/978-3-031-19849-6\_11. URL: [https://doi.org/10.1007/978-3-031-19849-6\\_11](https://doi.org/10.1007/978-3-031-19849-6_11).
- [29] Wolfgang Ahrendt et al. “Verification of Smart Contract Business Logic”. In: *Fundamentals of Software Engineering*. Springer International Publishing, 2019, pp. 228–243. DOI: 10.1007/978-3-030-31517-7\_16. URL: [https://doi.org/10.1007/978-3-030-31517-7\\_16](https://doi.org/10.1007/978-3-030-31517-7_16).
- [30] Wolfgang Ahrendt et al. “Verifying data- and control-oriented properties combining static and runtime verification: theory and tools”. In: *Formal Methods in System Design* 51.1 (Apr. 2017), pp. 200–265. DOI: 10.1007/s10703-017-0274-y. URL: <https://doi.org/10.1007/s10703-017-0274-y>.
- [31] Md. Imran Alam, Raju Halder, and Jorge Sousa Pinto. “A deductive reasoning approach for database applications using verification conditions”. In: *Journal of Systems and Software* 175 (May 2021), p. 110903. DOI: 10.1016/j.jss.2020.110903. URL: <https://doi.org/10.1016/j.jss.2020.110903>.
- [32] Elvira Albert, Miguel Gómez-Zamalloa, and Germán Puebla. “Test Data Generation of Bytecode by CLP Partial Evaluation”. In: *Logic-Based Program Synthesis and Transformation*. Springer Berlin Heidelberg, 2009, pp. 4–23. DOI: 10.1007/978-3-642-00515-2\_2. URL: [https://doi.org/10.1007/978-3-642-00515-2\\_2](https://doi.org/10.1007/978-3-642-00515-2_2).
- [33] Elvira Albert et al. “A formal verification framework for static analysis”. In: *Software & Systems Modeling* 15.4 (July 2015), pp. 987–1012. DOI: 10.1007/s10270-015-0476-y. URL: <https://doi.org/10.1007/s10270-015-0476-y>.
- [34] Elvira Albert et al. “Certified Abstract Cost Analysis”. In: *Fundamental Approaches to Software Engineering*. Springer International Publishing, 2021, pp. 24–45. DOI: 10.1007/978-3-030-71500-7\_2. URL: [https://doi.org/10.1007/978-3-030-71500-7\\_2](https://doi.org/10.1007/978-3-030-71500-7_2).
- [35] Elvira Albert et al. “Verified Resource Guarantees for Heap Manipulating Programs”. In: *Fundamental Approaches to Software Engineering*. Springer Berlin Heidelberg, 2012, pp. 130–145. DOI: 10.1007/978-3-642-28872-2\_10. URL: [https://doi.org/10.1007/978-3-642-28872-2\\_10](https://doi.org/10.1007/978-3-642-28872-2_10).
- [36] Elvira Albert et al. “Verified resource guarantees using COSTA and KeY”. In: *Proceedings of the 20th ACM SIGPLAN workshop on Partial evaluation and program manipulation*. ACM, Jan. 2011. DOI: 10.1145/1929501.1929513. URL: <https://doi.org/10.1145/1929501.1929513>.

- [37] Elvira Albert et al. “When COSTA Met KeY: Verified Cost Bounds”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 19–37. DOI: 10.1007/978-3-031-08166-8\_2. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_2](https://doi.org/10.1007%2F978-3-031-08166-8_2).
- [38] Natasha Alechina. “Reasoning about Plan Revision in Agent Programs”. In: *2012 19th International Symposium on Temporal Representation and Reasoning*. IEEE, Sept. 2012. DOI: 10.1109/time.2012.23. URL: <https://doi.org/10.1109%2Ftime.2012.23>.
- [39] Natasha Alechina et al. “Reasoning about plan revision in BDI agent programs”. In: *Theoretical Computer Science* 412.44 (Oct. 2011), pp. 6115–6134. DOI: 10.1016/j.tcs.2011.05.052. URL: <https://doi.org/10.1016%2Fj.tcs.2011.05.052>.
- [40] José Júlio Alferes and Wolfgang May. “Evolution and Reactivity for the Web”. In: *Reasoning Web*. Springer Berlin Heidelberg, 2005, pp. 134–172. DOI: 10.1007/11526988\_4. URL: [https://doi.org/10.1007%2F11526988\\_4](https://doi.org/10.1007%2F11526988_4).
- [41] Rima Al-Ali et al. “Dynamic security rules for legacy systems”. In: *Proceedings of the 13th European Conference on Software Architecture - Volume 2*. ACM, Sept. 2019. DOI: 10.1145/3344948.3344974. URL: <https://doi.org/10.1145%2F3344948.3344974>.
- [42] Rima Al-Ali et al. “Modeling of dynamic trust contracts for industry 4.0 systems”. In: *Proceedings of the 12th European Conference on Software Architecture: Companion Proceedings*. ACM, Sept. 2018. DOI: 10.1145/3241403.3241450. URL: <https://doi.org/10.1145%2F3241403.3241450>.
- [43] Rima Al-Ali et al. “Use Cases in Dataflow-Based Privacy and Trust Modeling and Analysis in Industry 4.0 Systems”. en. In: (2018). DOI: 10.5445/IR/1000085169. URL: <https://publikationen.bibliothek.kit.edu/1000085169>.
- [44] José Bacelar Almeida et al. “An Overview of Formal Methods Tools and Techniques”. In: *Rigorous Software Development*. Springer London, 2011, pp. 15–44. DOI: 10.1007/978-0-85729-018-2\_2. URL: [https://doi.org/10.1007%2F978-0-85729-018-2\\_2](https://doi.org/10.1007%2F978-0-85729-018-2_2).
- [45] Uzoma R Alo et al. “CloudPES: Cloud Portal of Educational Services for Higher Education Institutions in Nigeria”. In: *Proceedings of the 2022 6th International Conference on Education and E-Learning*. ACM, Nov. 2022. DOI: 10.1145/3578837.3578841. URL: <https://doi.org/10.1145%2F3578837.3578841>.
- [46] Anoud Alshnakat et al. “Constraint-Based Contract Inference for Deductive Verification”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 149–176. DOI: 10.1007/978-3-030-64354-6\_6. URL: [https://doi.org/10.1007%2F978-3-030-64354-6\\_6](https://doi.org/10.1007%2F978-3-030-64354-6_6).

- [47] Rajeev Alur and P. Madhusudan. “Adding nesting structure to words”. In: *Journal of the ACM* 56.3 (May 2009), pp. 1–43. DOI: 10.1145/1516512.1516518. URL: <https://doi.org/10.1145/1516512.1516518>.
- [48] Roberto Amadini et al. “Abstract Interpretation, Symbolic Execution and Constraints”. en. In: Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2020. DOI: 10.4230/OASICS.GABBRIELLI.7. URL: <https://drops.dagstuhl.de/opus/volltexte/2020/13229/>.
- [49] Afshin Amighi et al. “The VerCors project”. In: *Proceedings of the sixth workshop on Programming languages meets program verification*. ACM, Jan. 2012. DOI: 10.1145/2103776.2103785. URL: <https://doi.org/10.1145/2103776.2103785>.
- [50] Afshin Amighi et al. “Verification of Concurrent Systems with VerCors”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 172–216. DOI: 10.1007/978-3-319-07317-0\_5. URL: [https://doi.org/10.1007/978-3-319-07317-0\\_5](https://doi.org/10.1007/978-3-319-07317-0_5).
- [51] Jesper Amilon et al. *Automatic Program Instrumentation for Automatic Verification (Extended Technical Report)*. 2023. DOI: 10.48550/ARXIV.2306.00004. URL: <https://arxiv.org/abs/2306.00004>.
- [52] Nina Amla et al. “Visual Specifications for Modular Reasoning about Asynchronous Systems”. In: *Formal Techniques for Networked and Distributed Systems — FORTE 2002*. Springer Berlin Heidelberg, 2002, pp. 226–242. DOI: 10.1007/3-540-36135-9\_15. URL: [https://doi.org/10.1007/3-540-36135-9\\_15](https://doi.org/10.1007/3-540-36135-9_15).
- [53] Moussa Amrani and Pierre-Yves Schobbens. “Formal Analysis of Object-Oriented Mograms”. In: *Proceedings of the 19th Workshop on Formal Techniques for Java-like Programs*. ACM, June 2017. DOI: 10.1145/3103111.3104042. URL: <https://doi.org/10.1145/3103111.3104042>.
- [54] Kyriakos Anastasakis et al. “On challenges of model transformation from UML to Alloy”. In: *Software & Systems Modeling* 9.1 (Dec. 2008), pp. 69–86. DOI: 10.1007/s10270-008-0110-3. URL: <https://doi.org/10.1007/s10270-008-0110-3>.
- [55] Davide Ancona et al. “Towards Runtime Monitoring of Node.js and Its Application to the Internet of Things”. In: *Electronic Proceedings in Theoretical Computer Science* 264 (Feb. 2018), pp. 27–42. DOI: 10.4204/eptcs.264.4. URL: <https://doi.org/10.4204/eptcs.264.4>.
- [56] Pascal André, Christian Attiogbé, and Jean-Marie Mottu. “Combining Techniques to Verify Service-based Components”. In: *Proceedings of the 5th International Conference on Model-Driven Engineering and Software Development*. SCITEPRESS - Science and Technology Publications, 2017. DOI: 10.5220/0006212106450656. URL: <https://doi.org/10.5220/0006212106450656>.

- [57] June Andronick, Bouthaina Chetali, and Christine Paulin-Mohring. “Formal Verification of Security Properties of Smart Card Embedded Source Code”. In: *FM 2005: Formal Methods*. Springer Berlin Heidelberg, 2005, pp. 302–317. DOI: 10.1007/11526841\_21. URL: [https://doi.org/10.1007/2F11526841\\_21](https://doi.org/10.1007/2F11526841_21).
- [58] June Andronick and Quang-Huy Nguyen. “Certifying an embedded remote method invocation protocol”. In: *Proceedings of the 2008 ACM symposium on Applied computing*. ACM, Mar. 2008. DOI: 10.1145/1363686.1363777. URL: <https://doi.org/10.1145/2F1363686.1363777>.
- [59] Krasimir Angelov and Ramona Enache. “Typeful Ontologies with Direct Multilingual Verbalization”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 1–20. DOI: 10.1007/978-3-642-31175-8\_1. URL: [https://doi.org/10.1007/2F978-3-642-31175-8\\_1](https://doi.org/10.1007/2F978-3-642-31175-8_1).
- [60] Thibaud Antignac, David Sands, and Gerardo Schneider. “Data Minimisation: A Language-Based Approach”. In: *ICT Systems Security and Privacy Protection*. Springer International Publishing, 2017, pp. 442–456. DOI: 10.1007/978-3-319-58469-0\_30. URL: [https://doi.org/10.1007/2F978-3-319-58469-0\\_30](https://doi.org/10.1007/2F978-3-319-58469-0_30).
- [61] Krzysztof R. Apt and Ernst-Rüdiger Olderog. “Assessing the Success and Impact of Hoare’s Logic”. In: *Theories of Programming*. ACM, Oct. 2021, pp. 41–76. DOI: 10.1145/3477355.3477359. URL: <https://doi.org/10.1145/2F3477355.3477359>.
- [62] Krzysztof R. Apt and Ernst-Rüdiger Olderog. “Fifty years of Hoare’s logic”. In: *Formal Aspects of Computing* 31.6 (Dec. 2019), pp. 751–807. DOI: 10.1007/s00165-019-00501-3. URL: <https://doi.org/10.1007/2Fs00165-019-00501-3>.
- [63] Krzysztof R. Apt et al. “Verification of object-oriented programs: A transformational approach”. In: *Journal of Computer and System Sciences* 78.3 (May 2012), pp. 823–852. DOI: 10.1016/j.jcss.2011.08.002. URL: <https://doi.org/10.1016/2Fj.jcss.2011.08.002>.
- [64] Mohammad Ardeshtir and Fatemeh Nabavi. “A Logical Framework for the Islamic Law”. In: *New Developments in Legal Reasoning and Logic*. Springer International Publishing, Dec. 2021, pp. 53–81. DOI: 10.1007/978-3-030-70084-3\_3. URL: [https://doi.org/10.1007/2F978-3-030-70084-3\\_3](https://doi.org/10.1007/2F978-3-030-70084-3_3).
- [65] Carlos Areces. “Methods for modalities 3”. In: *Journal of Applied Logic* 4.3 (Sept. 2006), pp. 215–217. DOI: 10.1016/j.jal.2005.06.006. URL: <https://doi.org/10.1016/2Fj.jal.2005.06.006>.
- [66] Carlos Areces and Balder ten Cate. “14 Hybrid logics”. In: *Handbook of Modal Logic*. Elsevier, 2007, pp. 821–868. DOI: 10.1016/s1570-2464(07)80017-6. URL: <https://doi.org/10.1016/2Fs1570-2464%2807%2980017-6>.

- [67] CARLOS ARECES et al. “THE EXPRESSIVE POWER OF MEMORY LOGICS”. In: *The Review of Symbolic Logic* 4.2 (June 2011), pp. 290–318. DOI: 10.1017/s1755020310000389. URL: <https://doi.org/10.1017%2Fs1755020310000389>.
- [68] Carlos Areces et al. “Copy and remove as dynamic operators”. In: *Journal of Applied Non-Classical Logics* 31.3-4 (Aug. 2021), pp. 181–220. DOI: 10.1080/11663081.2021.1964327. URL: <https://doi.org/10.1080%2F11663081.2021.1964327>.
- [69] Carlos Areces et al. *Uncertainty-Based Knowing How Logic*. 2023. DOI: 10.48550/ARXIV.2304.01022. URL: <https://arxiv.org/abs/2304.01022>.
- [70] Nikos Arechiga and Bruce Krogh. “Using verified control envelopes for safe controller design”. In: *2014 American Control Conference*. IEEE, June 2014. DOI: 10.1109/acc.2014.6859307. URL: <https://doi.org/10.1109%2Facc.2014.6859307>.
- [71] Nikos Aréchiga et al. “Numerically-aided Deductive Safety Proof for a Powertrain Control System”. In: *Electronic Notes in Theoretical Computer Science* 317 (Nov. 2015), pp. 19–25. DOI: 10.1016/j.entcs.2015.10.003. URL: <https://doi.org/10.1016%2Fj.entcs.2015.10.003>.
- [72] Hamed Arshad et al. “Attribute-based encryption with enforceable obligations”. In: *Journal of Cryptographic Engineering* 13.3 (Apr. 2023), pp. 343–371. DOI: 10.1007/s13389-023-00317-1. URL: <https://doi.org/10.1007%2Fs13389-023-00317-1>.
- [73] Nicholas Asher and Pierre Zweigenbaum. “Artificial Intelligence and Language”. In: *A Guided Tour of Artificial Intelligence Research*. Springer International Publishing, 2020, pp. 117–145. DOI: 10.1007/978-3-030-06170-8\_4. URL: [https://doi.org/10.1007%2F978-3-030-06170-8\\_4](https://doi.org/10.1007%2F978-3-030-06170-8_4).
- [74] David Aspinall et al. “A program logic for resources”. In: *Theoretical Computer Science* 389.3 (Dec. 2007), pp. 411–445. DOI: 10.1016/j.tcs.2007.09.003. URL: <https://doi.org/10.1016%2Fj.tcs.2007.09.003>.
- [75] Colin Atkinson et al. “Specifying High-Assurance Services”. In: *Computer* 41.8 (Aug. 2008), pp. 64–71. DOI: 10.1109/mc.2008.308. URL: <https://doi.org/10.1109%2Fmc.2008.308>.
- [76] Guillaume Aucher. “Expedition in the Update Universe”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 1–16. DOI: 10.1007/978-3-030-65840-3\_1. URL: [https://doi.org/10.1007%2F978-3-030-65840-3\\_1](https://doi.org/10.1007%2F978-3-030-65840-3_1).
- [77] Guillaume Aucher et al. “Dynamic Context Logic”. In: *Logic, Rationality, and Interaction*. Springer Berlin Heidelberg, 2009, pp. 15–26. DOI: 10.1007/978-3-642-04893-7\_2. URL: [https://doi.org/10.1007%2F978-3-642-04893-7\\_2](https://doi.org/10.1007%2F978-3-642-04893-7_2).
- [78] Nicolas Auger et al. “On the Worst-Case Complexity of TimSort”. en. In: (2018). DOI: 10.4230/LIPICS.ESA.2018.4. URL: <http://drops.dagstuhl.de/opus/volltexte/2018/9467/>.



- [79] Michael Axtmann et al. “In-Place Parallel Super Scalar Samplesort (IPSSSSo)”. en. In: (2017). DOI: 10.4230/LIPICS.ESA.2017.9. URL: <http://drops.dagstuhl.de/opus/volltexte/2017/7854/>.
- [80] Ali Ayad and Claude Marché. “Multi-Prover Verification of Floating-Point Programs”. In: *Automated Reasoning*. Springer Berlin Heidelberg, 2010, pp. 127–141. DOI: 10.1007/978-3-642-14203-1\_11. URL: [https://doi.org/10.1007%2F978-3-642-14203-1\\_11](https://doi.org/10.1007%2F978-3-642-14203-1_11).
- [81] AYESHA SADIQ. “Automatic Inference of Symbolic Permissions for Single-threaded Java Programs”. In: (2019). DOI: 10.26180/5DB106C787D35. URL: [https://bridges.monash.edu/articles/thesis/Automatic\\_Inference\\_of\\_Symbolic\\_Permissions\\_for\\_Single-threaded\\_Java\\_Programs/10025150](https://bridges.monash.edu/articles/thesis/Automatic_Inference_of_Symbolic_Permissions_for_Single-threaded_Java_Programs/10025150).
- [82] Keyvan Azadbakht, Frank S. de Boer, and Erik de Vink. “Deadlock Detection for Actor-Based Coroutines”. In: *Formal Methods*. Springer International Publishing, 2018, pp. 39–54. DOI: 10.1007/978-3-319-95582-7\_3. URL: [https://doi.org/10.1007%2F978-3-319-95582-7\\_3](https://doi.org/10.1007%2F978-3-319-95582-7_3).
- [83] Benjamin Aziz. “Modeling and Analyzing an Industry 4.0 Communication Protocol”. In: *IEEE Internet of Things Journal* 7.10 (Oct. 2020), pp. 10120–10127. DOI: 10.1109/jiot.2020.2999325. URL: <https://doi.org/10.1109%2Fjiot.2020.2999325>.
- [84] Shaun Azzopardi, Christian Colombo, and Gordon Pace. “CLARVA: Model-based Residual Verification of Java Programs”. In: *Proceedings of the 8th International Conference on Model-Driven Engineering and Software Development*. SCITEPRESS - Science and Technology Publications, 2020. DOI: 10.5220/0008966603520359. URL: <https://doi.org/10.5220%2F0008966603520359>.
- [85] Franz Baader and Benjamin Zarri . “Verification of Golog Programs over Description Logic Actions”. In: *Frontiers of Combining Systems*. Springer Berlin Heidelberg, 2013, pp. 181–196. DOI: 10.1007/978-3-642-40885-4\_12. URL: [https://doi.org/10.1007%2F978-3-642-40885-4\\_12](https://doi.org/10.1007%2F978-3-642-40885-4_12).
- [86] Thomas Baar. “A Metamodel-Based Approach for Adding Modularization to KeYmaera’s Input Syntax”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 125–139. DOI: 10.1007/978-3-030-37487-7\_11. URL: [https://doi.org/10.1007%2F978-3-030-37487-7\\_11](https://doi.org/10.1007%2F978-3-030-37487-7_11).
- [87] Thomas Baar. “Correctly defined concrete syntax”. In: *Software & Systems Modeling* 7.4 (July 2008), pp. 383–398. DOI: 10.1007/s10270-008-0086-z. URL: <https://doi.org/10.1007%2Fs10270-008-0086-z>.
- [88] Thomas Baar et al. “Definition and Correct Refinement of Operation Specifications”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2006, pp. 127–144. DOI: 10.1007/11808107\_6. URL: [https://doi.org/10.1007%2F11808107\\_6](https://doi.org/10.1007%2F11808107_6).

- [89] Michael Backes, Cătălin Hrițcu, and Thorsten Tarrach. “Automatically Verifying Typing Constraints for a Data Processing Language”. In: *Certified Programs and Proofs*. Springer Berlin Heidelberg, 2011, pp. 296–313. DOI: 10.1007/978-3-642-25379-9\_22. URL: [https://doi.org/10.1007%2F978-3-642-25379-9\\_22](https://doi.org/10.1007%2F978-3-642-25379-9_22).
- [90] “Background and Motivation”. In: *2007 IEEE Conference on Computer Vision and Pattern Recognition*. IEEE, 2007. DOI: 10.1109/cvpr.2007.382954. URL: <https://doi.org/10.1109%2Fcvpr.2007.382954>.
- [91] Pablo Barceló Baeza. “Querying graph databases”. In: *Proceedings of the 32nd ACM SIGMOD-SIGACT-SIGAI symposium on Principles of database systems*. ACM, June 2013. DOI: 10.1145/2463664.2465216. URL: <https://doi.org/10.1145%2F2463664.2465216>.
- [92] Mehdi Bagherzadeh. “Panini: a concurrent programming model with modular reasoning”. In: *Companion Proceedings of the 2015 ACM SIGPLAN International Conference on Systems, Programming, Languages and Applications: Software for Humanity*. ACM, Oct. 2015. DOI: 10.1145/2814189.2814198. URL: <https://doi.org/10.1145%2F2814189.2814198>.
- [93] Alexander Bainczyk, Bernhard Steffen, and Falk Howar. “Lifelong Learning of Reactive Systems in Practice”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 38–53. DOI: 10.1007/978-3-031-08166-8\_3. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_3](https://doi.org/10.1007%2F978-3-031-08166-8_3).
- [94] Bajić-Bizumić, Biljana. “Animation-Based Service Specification, Verification and Validation”. en. In: (2015). DOI: 10.5075/EPFL-THESIS-6551. URL: <http://infoscience.epfl.ch/record/205767>.
- [95] Alexey Bakhirkin and David Monniaux. “Combining Forward and Backward Abstract Interpretation of Horn Clauses”. In: *Static Analysis*. Springer International Publishing, 2017, pp. 23–45. DOI: 10.1007/978-3-319-66706-5\_2. URL: [https://doi.org/10.1007%2F978-3-319-66706-5\\_2](https://doi.org/10.1007%2F978-3-319-66706-5_2).
- [96] Philippe Balbiani. “Logical approaches to deontic reasoning: From basic questions to dynamic solutions”. In: *International Journal of Intelligent Systems* 23.10 (Oct. 2008), pp. 1021–1045. DOI: 10.1002/int.20305. URL: <https://doi.org/10.1002%2Fint.20305>.
- [97] Philippe Balbiani and Emiliano Lorini. “Ockhamist Propositional Dynamic Logic: A Natural Link between PDL and CTL\*”. In: *Logic, Language, Information, and Computation*. Springer Berlin Heidelberg, 2013, pp. 251–265. DOI: 10.1007/978-3-642-39992-3\_22. URL: [https://doi.org/10.1007%2F978-3-642-39992-3\\_22](https://doi.org/10.1007%2F978-3-642-39992-3_22).
- [98] Mihai Balint. “Automatic inference of abstract type behavior”. In: *Proceedings of the IEEE/ACM international conference on Automated software engineering*. ACM, Sept. 2010. DOI: 10.1145/1858996.1859097. URL: <https://doi.org/10.1145%2F1858996.1859097>.

- [99] Mihai Balint and Marius Minea. “Automatic inference of model fields and their representation”. In: *Proceedings of the 13th Workshop on Formal Techniques for Java-Like Programs*. ACM, July 2011. DOI: 10.1145/2076674.2076683. URL: <https://doi.org/10.1145/2076674.2076683>.
- [100] A. Baltag, B. Coecke, and M. Sadrzadeh. “Epistemic Actions as Resources”. In: *Journal of Logic and Computation* 17.3 (Mar. 2007), pp. 555–585. DOI: 10.1093/logcom/exm015. URL: <https://doi.org/10.1093/logcom/exm015>.
- [101] Alexandru Baltag, Ilaria Canavotto, and Sonja Smets. “Causal Agency and Responsibility: A Refinement of STIT Logic”. In: *Logic in High Definition*. Springer International Publishing, Nov. 2020, pp. 149–176. DOI: 10.1007/978-3-030-53487-5\_8. URL: [https://doi.org/10.1007/978-3-030-53487-5\\_8](https://doi.org/10.1007/978-3-030-53487-5_8).
- [102] Alexandru Baltag, Hans P. van Ditmarsch, and Lawrence S. Moss. “EPISTEMIC LOGIC AND INFORMATION UPDATE”. In: *Philosophy of Information*. Elsevier, 2008, pp. 361–455. DOI: 10.1016/b978-0-444-51726-5.50015-7. URL: <https://doi.org/10.1016/b978-0-444-51726-5.50015-7>.
- [103] Alexandru Baltag, Soroush Rafiee Rad, and Sonja Smets. “Tracking probabilistic truths: a logic for statistical learning”. In: *Synthese* 199.3-4 (Sept. 2021), pp. 9041–9087. DOI: 10.1007/s11229-021-03193-6. URL: <https://doi.org/10.1007/s11229-021-03193-6>.
- [104] Alexandru Baltag and Sonja Smets. “Quantum logic as a dynamic logic”. In: *Synthese* 179.2 (Oct. 2010), pp. 285–306. DOI: 10.1007/s11229-010-9783-6. URL: <https://doi.org/10.1007/s11229-010-9783-6>.
- [105] Alexandru Baltag and Sonja Smets. “The dynamic turn in quantum logic”. In: *Synthese* 186.3 (June 2011), pp. 753–773. DOI: 10.1007/s11229-011-9915-7. URL: <https://doi.org/10.1007/s11229-011-9915-7>.
- [106] Alexandru Baltag et al. “PLQP & Company: Decidable Logics for Quantum Algorithms”. In: *International Journal of Theoretical Physics* 53.10 (Jan. 2014), pp. 3628–3647. DOI: 10.1007/s10773-013-1987-3. URL: <https://doi.org/10.1007/s10773-013-1987-3>.
- [107] Moritz Balz and Michael Goedicke. “Embedding process models in object-oriented program code”. In: *Proceedings of the 1st Workshop on Behaviour Modelling in Model-Driven Architecture*. ACM, June 2009. DOI: 10.1145/1555852.1555859. URL: <https://doi.org/10.1145/1555852.1555859>.
- [108] Anindya Banerjee and David A. Naumann. “A Logical Analysis of Framing for Specifications with Pure Method Calls”. In: *Verified Software: Theories, Tools and Experiments*. Springer International Publishing, 2014, pp. 3–20. DOI: 10.1007/978-3-319-12154-3\_1. URL: [https://doi.org/10.1007/978-3-319-12154-3\\_1](https://doi.org/10.1007/978-3-319-12154-3_1).

- [109] Anindya Banerjee and David A. Naumann. “Local Reasoning for Global Invariants, Part II”. In: *Journal of the ACM* 60.3 (June 2013), pp. 1–73. DOI: 10.1145/2485981. URL: <https://doi.org/10.1145%2F2485981>.
- [110] Anindya Banerjee, David A. Naumann, and Mohammad Nikouei. “A Logical Analysis of Framing for Specifications with Pure Method Calls”. In: *ACM Transactions on Programming Languages and Systems* 40.2 (May 2018), pp. 1–90. DOI: 10.1145/3174801. URL: <https://doi.org/10.1145%2F3174801>.
- [111] Yuyan Bao, Gary T. Leavens, and Gidon Ernst. “Unifying separation logic and region logic to allow interoperability”. In: *Formal Aspects of Computing* 30.3-4 (Aug. 2018), pp. 381–441. DOI: 10.1007/s00165-018-0455-5. URL: <https://doi.org/10.1007%2Fs00165-018-0455-5>.
- [112] Luciano Baresi et al. “A Logic-Based Approach for the Verification of UML Timed Models”. In: *ACM Transactions on Software Engineering and Methodology* 26.2 (Apr. 2017), pp. 1–47. DOI: 10.1145/3106411. URL: <https://doi.org/10.1145%2F3106411>.
- [113] Mike Barnett et al. “Boogie: A Modular Reusable Verifier for Object-Oriented Programs”. In: *Formal Methods for Components and Objects*. Springer Berlin Heidelberg, 2006, pp. 364–387. DOI: 10.1007/11804192\_17. URL: [https://doi.org/10.1007%2F11804192\\_17](https://doi.org/10.1007%2F11804192_17).
- [114] José Bernardo Barros et al. “Assertion-based slicing and slice graphs”. In: *Formal Aspects of Computing* 24.2 (Mar. 2012), pp. 217–248. DOI: 10.1007/s00165-011-0196-1. URL: <https://doi.org/10.1007%2Fs00165-011-0196-1>.
- [115] Gilles Barthe et al. “JACK — A Tool for Validation of Security and Behaviour of Java Applications”. In: *Formal Methods for Components and Objects*. Springer Berlin Heidelberg, 2007, pp. 152–174. DOI: 10.1007/978-3-540-74792-5\_7. URL: [https://doi.org/10.1007%2F978-3-540-74792-5\\_7](https://doi.org/10.1007%2F978-3-540-74792-5_7).
- [116] Davide Basile and Maurice H. ter Beek. “A Clean and Efficient Implementation of Choreography Synthesis for Behavioural Contracts”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2021, pp. 225–238. DOI: 10.1007/978-3-030-78142-2\_14. URL: [https://doi.org/10.1007%2F978-3-030-78142-2\\_14](https://doi.org/10.1007%2F978-3-030-78142-2_14).
- [117] Can Başkent and Pedro Henrique Carrasqueira. “A game theoretical semantics for a logic of formal inconsistency”. In: *Logic Journal of the IGPL* 28.5 (Nov. 2018), pp. 936–952. DOI: 10.1093/jigpal/jzy068. URL: <https://doi.org/10.1093%2Fjigpal%2Fjzy068>.
- [118] Christoph Baumann et al. “Lessons Learned From Microkernel Verification — Specification is the New Bottleneck”. In: *Electronic Proceedings in Theoretical Computer Science* 102 (Nov. 2012), pp. 18–32. DOI: 10.4204/eptcs.102.4. URL: <https://doi.org/10.4204%2Feptcs.102.4>.
- [119] Simon Bäumler et al. “Interactive verification of concurrent systems using symbolic execution”. In: *AI Communications* 23.2-3 (2010), pp. 285–307. DOI: 10.3233/aic-2010-0458. URL: <https://doi.org/10.3233%2Faic-2010-0458>.

- [120] David W. Bearg. “Evaluation Tools and Techniques”. In: *Indoor Air Quality and HVAC Systems*. Routledge, Apr. 2019, pp. 171–198. DOI: 10.1201/9780203751152-9. URL: <https://doi.org/10.1201/9780203751152-9>.
- [121] Arvid Becker et al. “Metric dynamic equilibrium logic”. In: *Journal of Applied Non-Classical Logics* (Aug. 2023), pp. 1–25. DOI: 10.1080/11663081.2023.2244365. URL: <https://doi.org/10.1080/11663081.2023.2244365>.
- [122] Arvid Becker et al. *Metric Temporal Equilibrium Logic over Timed Traces*. 2023. DOI: 10.48550/ARXIV.2304.14778. URL: <https://arxiv.org/abs/2304.14778>.
- [123] B. Beckert and P.H. Schmitt. “Program verification using change information”. In: *First International Conference on Software Engineering and Formal Methods, 2003.Proceedings*. IEEE, 2003. DOI: 10.1109/sefm.2003.1236211. URL: <https://doi.org/10.1109/sefm.2003.1236211>.
- [124] Bernhard Beckert and Daniel Bruns. “Dynamic Logic with Trace Semantics”. In: *Automated Deduction – CADE-24*. Springer Berlin Heidelberg, 2013, pp. 315–329. DOI: 10.1007/978-3-642-38574-2\_22. URL: [https://doi.org/10.1007/978-3-642-38574-2\\_22](https://doi.org/10.1007/978-3-642-38574-2_22).
- [125] Bernhard Beckert and Daniel Bruns. “Dynamic Trace Logic: Definition and Proofs”. In: (2012). DOI: 10.5445/IR/1000028184. URL: <http://digbib.ubka.uni-karlsruhe.de/volltexte/1000028184>.
- [126] Bernhard Beckert, Sarah Grebing, and Florian Böhl. “A Usability Evaluation of Interactive Theorem Provers Using Focus Groups”. In: *Software Engineering and Formal Methods*. Springer International Publishing, 2015, pp. 3–19. DOI: 10.1007/978-3-319-15201-1\_1. URL: [https://doi.org/10.1007/978-3-319-15201-1\\_1](https://doi.org/10.1007/978-3-319-15201-1_1).
- [127] Bernhard Beckert, Sarah Grebing, and Mattias Ulbrich. “An Interaction Concept for Program Verification Systems with Explicit Proof Object”. In: *Hardware and Software: Verification and Testing*. Springer International Publishing, 2017, pp. 163–178. DOI: 10.1007/978-3-319-70389-3\_11. URL: [https://doi.org/10.1007/978-3-319-70389-3\\_11](https://doi.org/10.1007/978-3-319-70389-3_11).
- [128] Bernhard Beckert and Vladimir Klebanov. “A Dynamic Logic for Deductive Verification of Concurrent Programs”. In: *Fifth IEEE International Conference on Software Engineering and Formal Methods (SEFM 2007)*. IEEE, Sept. 2007. DOI: 10.1109/sefm.2007.1. URL: <https://doi.org/10.1109/sefm.2007.1>.
- [129] Bernhard Beckert and Claude Marché, eds. *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2011. DOI: 10.1007/978-3-642-18070-5. URL: <https://doi.org/10.1007/978-3-642-18070-5>.
- [130] Bernhard Beckert and André Platzer. “Dynamic Logic with Non-rigid Functions”. In: *Automated Reasoning*. Springer Berlin Heidelberg, 2006, pp. 266–280. DOI: 10.1007/11814771\_23. URL: [https://doi.org/10.1007/11814771\\_23](https://doi.org/10.1007/11814771_23).

- [131] Bernhard Beckert, Jonas Schiffel, and Matthias Ulbrich. “Smart Contracts: Application Scenarios for Deductive Program Verification”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 293–298. DOI: 10.1007/978-3-030-54994-7\_21. URL: [https://doi.org/10.1007/978-3-030-54994-7\\_21](https://doi.org/10.1007/978-3-030-54994-7_21).
- [132] Bernhard Beckert and Steffen Schlager. “Software Verification with Integrated Data Type Refinement for Integer Arithmetic”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2004, pp. 207–226. DOI: 10.1007/978-3-540-24756-2\_12. URL: [https://doi.org/10.1007/978-3-540-24756-2\\_12](https://doi.org/10.1007/978-3-540-24756-2_12).
- [133] Bernhard Beckert, Steffen Schlager, and Peter H. Schmitt. “An Improved Rule for While Loops in Deductive Program Verification”. In: *Formal Methods and Software Engineering*. Springer Berlin Heidelberg, 2005, pp. 315–329. DOI: 10.1007/11576280\_22. URL: [https://doi.org/10.1007/11576280\\_22](https://doi.org/10.1007/11576280_22).
- [134] Bernhard Beckert et al. “Information Flow in Object-Oriented Software”. In: *Logic-Based Program Synthesis and Transformation*. Springer International Publishing, 2014, pp. 19–37. DOI: 10.1007/978-3-319-14125-1\_2. URL: [https://doi.org/10.1007/978-3-319-14125-1\\_2](https://doi.org/10.1007/978-3-319-14125-1_2).
- [135] Bernhard Beckert et al. “KeYGenU: combining verification-based and capture and replay techniques for regression unit testing”. In: *International Journal of System Assurance Engineering and Management* 2.2 (June 2011), pp. 97–113. DOI: 10.1007/s13198-011-0068-3. URL: <https://doi.org/10.1007/s13198-011-0068-3>.
- [136] Bernhard Beckert et al. “The KeY Approach for the Cryptographic Verification of JAVA Programs: A Case Study”. In: (2012). DOI: 10.5445/IR/1000027497. URL: <http://digbib.ubka.uni-karlsruhe.de/volltexte/1000027497>.
- [137] Bernhard Beckert et al. “The KeY system 1.0 (Deduction Component)”. In: *Automated Deduction – CADE-21*. Springer Berlin Heidelberg, pp. 379–384. DOI: 10.1007/978-3-540-73595-3\_26. URL: [https://doi.org/10.1007/978-3-540-73595-3\\_26](https://doi.org/10.1007/978-3-540-73595-3_26).
- [138] Bernhard Beckert et al. “Towards a Usable and Sustainable Deductive Verification Tool”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Software Engineering*. Springer Nature Switzerland, 2022, pp. 281–300. DOI: 10.1007/978-3-031-19756-7\_16. URL: [https://doi.org/10.1007/978-3-031-19756-7\\_16](https://doi.org/10.1007/978-3-031-19756-7_16).
- [139] Bernhard Beckert et al. “Using Theorem Provers to Increase the Precision of Dependence Analysis for Information Flow Control”. In: *Formal Methods and Software Engineering*. Springer International Publishing, 2018, pp. 284–300. DOI: 10.1007/978-3-030-02450-5\_17. URL: [https://doi.org/10.1007/978-3-030-02450-5\\_17](https://doi.org/10.1007/978-3-030-02450-5_17).

- [140] Ryan Beckett, Michael Greenberg, and David Walker. “Temporal NetKAT”. In: *Proceedings of the 37th ACM SIGPLAN Conference on Programming Language Design and Implementation*. ACM, June 2016. DOI: 10.1145/2908080.2908108. URL: <https://doi.org/10.1145/2908080.2908108>.
- [141] Maurice H. ter Beek, Reiner Hähnle, and Ina Schaefer. “Correctness-by-Construction and Post-hoc Verification: Friends or Foes?” In: *Leveraging Applications of Formal Methods, Verification and Validation: Foundational Techniques*. Springer International Publishing, 2016, pp. 723–729. DOI: 10.1007/978-3-319-47166-2\_51. URL: [https://doi.org/10.1007/978-3-319-47166-2\\_51](https://doi.org/10.1007/978-3-319-47166-2_51).
- [142] Santiago Zanella Béguelin. “Formalisation and Verification of the GlobalPlatform Card Specification Using the B Method”. In: *Construction and Analysis of Safe, Secure, and Interoperable Smart Devices*. Springer Berlin Heidelberg, 2006, pp. 155–173. DOI: 10.1007/11741060\_9. URL: [https://doi.org/10.1007/11741060\\_9](https://doi.org/10.1007/11741060_9).
- [143] Francesco Belardinelli and Andreas Herzig. “Dynamic Logic for Data-aware Systems: Decidability Results”. In: *Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence*. International Joint Conferences on Artificial Intelligence Organization, Aug. 2017. DOI: 10.24963/ijcai.2017/114. URL: <https://doi.org/10.24963/ijcai.2017/114>.
- [144] Francesco Belardinelli et al. *Program Semantics and a Verification Technique for Knowledge-Based Multi-Agent Systems*. 2022. DOI: 10.48550/ARXIV.2206.13841. URL: <https://arxiv.org/abs/2206.13841>.
- [145] V. Belle and G. Lakemeyer. “Multiagent Only Knowing in Dynamic Systems”. In: *Journal of Artificial Intelligence Research* 49 (Feb. 2014), pp. 363–402. DOI: 10.1613/jair.4192. URL: <https://doi.org/10.1613/jair.4192>.
- [146] Vaishak Belle and Gerhard Lakemeyer. “A Semantical Account of Progression in the Presence of Uncertainty”. In: *Proceedings of the AAAI Conference on Artificial Intelligence* 25.1 (Aug. 2011), pp. 165–170. DOI: 10.1609/aaai.v25i1.7858. URL: <https://doi.org/10.1609/aaai.v25i1.7858>.
- [147] Kirstie Bellman. “Model-Based Design, Engineering, and Development: Advancements mean New Opportunities for Space System Development”. In: *AIAA SPACE 2011 Conference & Exposition*. American Institute of Aeronautics and Astronautics, June 2011. DOI: 10.2514/6.2011-7304. URL: <https://doi.org/10.2514/6.2011-7304>.
- [148] Kirstie L. Bellman, Christopher Landauer, and Phyllis R. Nelson. “Managing Variable and Cooperative Time Behavior”. In: *2010 13th IEEE International Symposium on Object/Component/Service-Oriented Real-Time Distributed Computing Workshops*. IEEE, 2010. DOI: 10.1109/isorcw.2010.12. URL: <https://doi.org/10.1109/isorcw.2010.12>.

- [149] Jason Belt et al. “Efficient Symbolic Execution of Value-Based Data Structures for Critical Systems”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 295–309. DOI: 10.1007/978-3-642-28891-3\_29. URL: [https://doi.org/10.1007%2F978-3-642-28891-3\\_29](https://doi.org/10.1007%2F978-3-642-28891-3_29).
- [150] Michael Benedikt, Wenfei Fan, and Gabriel M. Kuper. “Structural Properties of XPath Fragments”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, Dec. 2002, pp. 79–95. DOI: 10.1007/3-540-36285-1\_6. URL: [https://doi.org/10.1007%2F3-540-36285-1\\_6](https://doi.org/10.1007%2F3-540-36285-1_6).
- [151] Mario Benevides, Bruno Lopes, and Edward Hermann Haeusler. “Towards reasoning about Petri nets: A Propositional Dynamic Logic based approach”. In: *Theoretical Computer Science* 744 (Oct. 2018), pp. 22–36. DOI: 10.1016/j.tcs.2018.01.007. URL: <https://doi.org/10.1016%2Fj.tcs.2018.01.007>.
- [152] Mario Roberto Folhadela Benevides and Isaque Macalam Saab Lima. “Dynamic Epistemic Logic with Communication Actions”. In: *Electronic Notes in Theoretical Computer Science* 344 (Aug. 2019), pp. 67–82. DOI: 10.1016/j.entcs.2019.07.005. URL: <https://doi.org/10.1016%2Fj.entcs.2019.07.005>.
- [153] Johan van Benthem. ““One is a lonely number”: logic and communication”. In: *Logic Colloquium '02*. Cambridge University Press, Mar. 2017, pp. 96–129. DOI: 10.1017/9781316755723.006. URL: <https://doi.org/10.1017%2F9781316755723.006>.
- [154] Johan van Benthem. “Computation as Conversation”. In: *New Computational Paradigms*. Springer New York, 2008, pp. 35–58. DOI: 10.1007/978-0-387-68546-5\_3. URL: [https://doi.org/10.1007%2F978-0-387-68546-5\\_3](https://doi.org/10.1007%2F978-0-387-68546-5_3).
- [155] Johan van Benthem. “Dynamic Logic in Natural Language”. In: *Routledge Companion to Philosophy of Language*. Routledge. DOI: 10.4324/9780203206966.ch5\_7. URL: [https://doi.org/10.4324%2F9780203206966.ch5\\_7](https://doi.org/10.4324%2F9780203206966.ch5_7).
- [156] Johan van Benthem. “Epistemic Logic and Epistemology: The State of their Affairs”. In: *Philosophical Studies* 128.1 (Mar. 2006), pp. 49–76. DOI: 10.1007/s11098-005-4052-0. URL: <https://doi.org/10.1007%2Fs11098-005-4052-0>.
- [157] Johan van Benthem. *Logical Dynamics of Information and Interaction*. Cambridge University Press, Sept. 2011. DOI: 10.1017/cbo9780511974533. URL: <https://doi.org/10.1017%2Fcbo9780511974533>.
- [158] Johan van Benthem. “The Logic of Conditionals on Outback Trails”. In: *Logic Journal of the IGPL* (Oct. 2022). DOI: 10.1093/jigpal/jzac064. URL: <https://doi.org/10.1093%2Fjigpal%2Fjzac064>.
- [159] Johan van Benthem, Nick Bezhanishvili, and Sebastian Enqvist. “A Propositional Dynamic Logic for Instantial Neighborhood Semantics”. In: *Studia Logica* 107.4 (Aug. 2018), pp. 719–751. DOI: 10.1007/s11225-018-9825-5. URL: <https://doi.org/10.1007%2Fs11225-018-9825-5>.



- [160] Johan van Benthem and Eric Pacuit. “Connecting Logics of Choice and Change”. In: *Outstanding Contributions to Logic*. Springer International Publishing, 2014, pp. 291–314. DOI: 10.1007/978-3-319-01754-9\_14. URL: [https://doi.org/10.1007%2F978-3-319-01754-9\\_14](https://doi.org/10.1007%2F978-3-319-01754-9_14).
- [161] Christoph Benz Müller and Dale Miller. “Automation of Higher-Order Logic”. In: *Computational Logic*. Elsevier, 2014, pp. 215–254. DOI: 10.1016/b978-0-444-51624-4.50005-8. URL: <https://doi.org/10.1016%2Fb978-0-444-51624-4.50005-8>.
- [162] DANIELA BERARDI et al. “AUTOMATIC SERVICE COMPOSITION BASED ON BEHAVIORAL DESCRIPTIONS”. In: *International Journal of Cooperative Information Systems* 14.04 (Dec. 2005), pp. 333–376. DOI: 10.1142/s0218843005001201. URL: <https://doi.org/10.1142%2Fs0218843005001201>.
- [163] Jort Martinus Bergfeld and Joshua Sack. “Deriving the correctness of quantum protocols in the probabilistic logic for quantum programs”. In: *Soft Computing* 21.6 (Aug. 2015), pp. 1421–1441. DOI: 10.1007/s00500-015-1802-6. URL: <https://doi.org/10.1007%2Fs00500-015-1802-6>.
- [164] Jan A. Bergstra and Alban Ponse. “Evaluation Trees for Proposition Algebra”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2015, pp. 44–61. DOI: 10.1007/978-3-319-23506-6\_6. URL: [https://doi.org/10.1007%2F978-3-319-23506-6\\_6](https://doi.org/10.1007%2F978-3-319-23506-6_6).
- [165] Lennart Beringer and Andrew W. Appel. “Abstraction and subsumption in modular verification of C programs”. In: *Formal Methods in System Design* 58.1-2 (Mar. 2021), pp. 322–345. DOI: 10.1007/s10703-020-00353-1. URL: <https://doi.org/10.1007%2Fs10703-020-00353-1>.
- [166] Lennart Beringer, Martin Hofmann, and Mariela Pavlova. “Certification Using the Mobius Base Logic”. In: *Formal Methods for Components and Objects*. Springer Berlin Heidelberg, 2008, pp. 25–51. DOI: 10.1007/978-3-540-92188-2\_2. URL: [https://doi.org/10.1007%2F978-3-540-92188-2\\_2](https://doi.org/10.1007%2F978-3-540-92188-2_2).
- [167] Nicolas Berthier and Narges Khakpour. *Symbolic Abstract Heaps for Polymorphic Information-flow Guard Inference (Extended Version)*. 2022. DOI: 10.48550/ARXIV.2211.03450. URL: <https://arxiv.org/abs/2211.03450>.
- [168] Gilles Bertrand. “On the dynamics”. In: *Image and Vision Computing* 25.4 (Apr. 2007), pp. 447–454. DOI: 10.1016/j.imavis.2006.04.017. URL: <https://doi.org/10.1016%2Fj.imavis.2006.04.017>.
- [169] Souhaib Besrou, Lukman Bin Ab Rahim, and P. D. D. Dominic. “Assessment and evaluation of requirements elicitation techniques using analysis determination requirements framework”. In: *2014 International Conference on Computer and Information Sciences (ICCOINS)*. IEEE, June 2014. DOI: 10.1109/iccoins.2014.6868446. URL: <https://doi.org/10.1109%2Ficcoins.2014.6868446>.

- [170] Souhaib Besrour, Lukman Bin Ab Rahim, and P.D.D. Dominic. “Exploratory Study to Assess and Evaluate Requirement Specification Techniques Using Analysis Determination Requirements Framework”. In: *Research Journal of Applied Sciences, Engineering and Technology* 9.3 (Jan. 2015), pp. 165–171. DOI: 10.19026/rjaset.9.1391. URL: <https://doi.org/10.19026%2Frjaset.9.1391>.
- [171] Lorenzo Bettini and Ferruccio Damiani. “Generic traits for the Java platform”. In: *Proceedings of the 2014 International Conference on Principles and Practices of Programming on the Java platform: Virtual machines, Languages, and Tools*. ACM, Sept. 2014. DOI: 10.1145/2647508.2647518. URL: <https://doi.org/10.1145%2F2647508.2647518>.
- [172] Lorenzo Bettini and Ferruccio Damiani. “Pure trait-based programming on the Java platform”. In: *Proceedings of the 2013 International Conference on Principles and Practices of Programming on the Java Platform: Virtual Machines, Languages, and Tools*. ACM, Sept. 2013. DOI: 10.1145/2500828.2500835. URL: <https://doi.org/10.1145%2F2500828.2500835>.
- [173] Lorenzo Bettini and Ferruccio Damiani. “Xtraitj : Traits for the Java platform”. In: *Journal of Systems and Software* 131 (Sept. 2017), pp. 419–441. DOI: 10.1016/j.jss.2016.07.035. URL: <https://doi.org/10.1016%2Fj.jss.2016.07.035>.
- [174] Dirk Beyer and Sudeep Kanav. “An Interface Theory for Program Verification”. In: *Leveraging Applications of Formal Methods, Verification and Validation: Verification Principles*. Springer International Publishing, 2020, pp. 168–186. DOI: 10.1007/978-3-030-61362-4\_9. URL: [https://doi.org/10.1007%2F978-3-030-61362-4\\_9](https://doi.org/10.1007%2F978-3-030-61362-4_9).
- [175] Dirk Beyer, Martin Spiessl, and Sven Umbricht. “Cooperation Between Automatic and Interactive Software Verifiers”. In: *Software Engineering and Formal Methods*. Springer International Publishing, 2022, pp. 111–128. DOI: 10.1007/978-3-031-17108-6\_7. URL: [https://doi.org/10.1007%2F978-3-031-17108-6\\_7](https://doi.org/10.1007%2F978-3-031-17108-6_7).
- [176] Nick Bezhanishvili and Wiebe van der Hoek. “Structures for Epistemic Logic”. In: *Outstanding Contributions to Logic*. Springer International Publishing, 2014, pp. 339–380. DOI: 10.1007/978-3-319-06025-5\_12. URL: [https://doi.org/10.1007%2F978-3-319-06025-5\\_12](https://doi.org/10.1007%2F978-3-319-06025-5_12).
- [177] Mohamed Tahar Bhiri et al. “UML/OCL and Refinement”. In: *2011 18th IEEE International Conference and Workshops on Engineering of Computer-Based Systems*. IEEE, Apr. 2011. DOI: 10.1109/ecbs.2011.42. URL: <https://doi.org/10.1109%2Fecbs.2011.42>.
- [178] Jinting Bian et al. “Integrating ADTs in KeY and Their Application to History-Based Reasoning”. In: *Formal Methods*. Springer International Publishing, 2021, pp. 255–272. DOI: 10.1007/978-3-030-90870-6\_14. URL: [https://doi.org/10.1007%2F978-3-030-90870-6\\_14](https://doi.org/10.1007%2F978-3-030-90870-6_14).

- [179] MARTA BÍLKOVÁ et al. “THE LOGIC OF RESOURCES AND CAPABILITIES”. In: *The Review of Symbolic Logic* 11.2 (May 2018), pp. 371–410. DOI: 10.1017/s175502031700034x. URL: <https://doi.org/10.1017%2Fs175502031700034x>.
- [180] A. Binemann-Zdanowicz et al. “Quality Assurance in the Design of Web Information Systems”. In: *Fifth International Conference on Quality Software (QSIC’05)*. IEEE. DOI: 10.1109/qsic.2005.51. URL: <https://doi.org/10.1109%2Fqsic.2005.51>.
- [181] Simon Bischof et al. “Low-deterministic security for low-nondeterministic programs<sup>1</sup>”. In: *Journal of Computer Security* 26.3 (Apr. 2018), pp. 335–366. DOI: 10.3233/jcs-17984. URL: <https://doi.org/10.3233%2Fjcs-17984>.
- [182] Andrzej Blikle. “An Experiment with Denotational Semantics”. In: *SN Computer Science* 1.1 (Aug. 2019). DOI: 10.1007/s42979-019-0013-0. URL: <https://doi.org/10.1007%2Fs42979-019-0013-0>.
- [183] Andrzej Blikle. “AN EXPERIMENT WITH DENOTATIONAL SEMANTICS (a working version) ”An Experiment With Denotational Semantics” by Andrzej Blikle has been licensed under a Creative Commons: Attribution -NonCommercial -NoDerivatives 4.0 International. For details see: <https://creativecommons.org/licenses/by-nc-nd/4.0/legalcode>”. en. In: (2019). DOI: 10.13140/RG.2.2.31272.42249. URL: <http://rgdoi.net/10.13140/RG.2.2.31272.42249>.
- [184] Andrzej Blikle and Piotr Chrzastowski-Wachtel. “A DENOTATIONAL ENGINEERING OF PROGRAMMING LANGUAGES to make software systems reliable and user manuals clear, complete and unambiguous. A book in statu nascendi”. en. In: (2018). DOI: 10.13140/RG.2.2.27499.39201/3. URL: <http://rgdoi.net/10.13140/RG.2.2.27499.39201/3>.
- [185] Simon Bludze, Ludovic Henrio, and Eric Madelaine. “Verification of Concurrent Design Patterns with Data”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 161–181. DOI: 10.1007/978-3-030-22397-7\_10. URL: [https://doi.org/10.1007%2F978-3-030-22397-7\\_10](https://doi.org/10.1007%2F978-3-030-22397-7_10).
- [186] Stefan Blom, Joseph Kiniiry, and Marieke Huisman. “How Do Developers Use APIs? A Case Study in Concurrency”. In: *2013 18th International Conference on Engineering of Complex Computer Systems*. IEEE, July 2013. DOI: 10.1109/iceccs.2013.39. URL: <https://doi.org/10.1109%2Ficeccs.2013.39>.
- [187] François Bobot et al. “Preserving User Proofs across Specification Changes”. In: *Verified Software: Theories, Tools, Experiments*. Springer Berlin Heidelberg, 2014, pp. 191–201. DOI: 10.1007/978-3-642-54108-7\_10. URL: [https://doi.org/10.1007%2F978-3-642-54108-7\\_10](https://doi.org/10.1007%2F978-3-642-54108-7_10).
- [188] Alexander Bochman. *A Logical Theory of Causality*. The MIT Press, 2021. DOI: 10.7551/mitpress/12387.001.0001. URL: <https://doi.org/10.7551%2Fmitpress%2F12387.001.0001>.

- [189] Alexander Bochman and Dov M. Gabbay. “Sequential Dynamic Logic”. In: *Journal of Logic, Language and Information* 21.3 (Nov. 2011), pp. 279–298. DOI: 10.1007/s10849-011-9152-y. URL: <https://doi.org/10.1007%2Fs10849-011-9152-y>.
- [190] Ivan Bocić, Tefvik Bultan, and Nicolás Rosner. “Inductive verification of data model invariants in web applications using first-order logic”. In: *Automated Software Engineering* 26.2 (Dec. 2018), pp. 379–416. DOI: 10.1007/s10515-018-0249-2. URL: <https://doi.org/10.1007%2Fs10515-018-0249-2>.
- [191] Stefan Bodenmüller, Gerhard Schellhorn, and Wolfgang Reif. “Verification of Crashsafe Caching in a Virtual File System Switch”. In: *Formal Aspects of Computing* 34.1 (Mar. 2022), pp. 1–33. DOI: 10.1145/3523737. URL: <https://doi.org/10.1145%2F3523737>.
- [192] Frank de Boer and Stijn de Gouw. “Reasoning About Active Objects: A Sound and Complete Assertional Proof Method”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 173–192. DOI: 10.1007/978-3-031-08166-8\_9. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_9](https://doi.org/10.1007%2F978-3-031-08166-8_9).
- [193] Frank S. de Boer. “A Sound and Complete Shared-Variable Concurrency Model for Multi-threaded Java Programs”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2007, pp. 252–268. DOI: 10.1007/978-3-540-72952-5\_16. URL: [https://doi.org/10.1007%2F978-3-540-72952-5\\_16](https://doi.org/10.1007%2F978-3-540-72952-5_16).
- [194] Frank S. de Boer and Marcello Bonsangue. “On the Nature of Symbolic Execution”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 64–80. DOI: 10.1007/978-3-030-30942-8\_6. URL: [https://doi.org/10.1007%2F978-3-030-30942-8\\_6](https://doi.org/10.1007%2F978-3-030-30942-8_6).
- [195] Frank S. de Boer and Marcello Bonsangue. “Symbolic execution formally explained”. In: *Formal Aspects of Computing* 33.4-5 (Aug. 2021), pp. 617–636. DOI: 10.1007/s00165-020-00527-y. URL: <https://doi.org/10.1007%2Fs00165-020-00527-y>.
- [196] Frank S. de Boer and Stijn de Gouw. “Being and Change: Reasoning About Invariance”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2015, pp. 191–204. DOI: 10.1007/978-3-319-23506-6\_13. URL: [https://doi.org/10.1007%2F978-3-319-23506-6\\_13](https://doi.org/10.1007%2F978-3-319-23506-6_13).
- [197] Frank S. de Boer and Stijn de Gouw. “Combining Monitoring with Run-Time Assertion Checking”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 217–262. DOI: 10.1007/978-3-319-07317-0\_6. URL: [https://doi.org/10.1007%2F978-3-319-07317-0\\_6](https://doi.org/10.1007%2F978-3-319-07317-0_6).
- [198] Frank S. de Boer et al. “SymPaths: Symbolic Execution Meets Partial Order Reduction”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 313–338. DOI: 10.1007/978-3-030-64354-6\_13. URL: [https://doi.org/10.1007%2F978-3-030-64354-6\\_13](https://doi.org/10.1007%2F978-3-030-64354-6_13).

- [199] Martin de Boer et al. “Formal Specification and Verification of JDK’s Identity Hash Map Implementation”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2022, pp. 45–62. DOI: 10.1007/978-3-031-07727-2\_4. URL: [https://doi.org/10.1007/978-3-031-07727-2\\_4](https://doi.org/10.1007/978-3-031-07727-2_4).
- [200] Martin de Boer et al. “Formal Specification and Verification of JDK’s Identity Hash Map Implementation”. In: *Formal Aspects of Computing* (May 2023). DOI: 10.1145/3594729. URL: <https://doi.org/10.1145/3594729>.
- [201] Jan Boerman, Marieke Huisman, and Sebastiaan Joosten. “Reasoning About JML: Differences Between KeY and OpenJML”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2018, pp. 30–46. DOI: 10.1007/978-3-319-98938-9\_3. URL: [https://doi.org/10.1007/978-3-319-98938-9\\_3](https://doi.org/10.1007/978-3-319-98938-9_3).
- [202] Thomas Bogholm et al. “Schedulability Analysis Abstractions for Safety Critical Java”. In: *2012 IEEE 15th International Symposium on Object/Component/Service-Oriented Real-Time Distributed Computing*. IEEE, Apr. 2012. DOI: 10.1109/isorc.2012.18. URL: <https://doi.org/10.1109/isorc.2012.18>.
- [203] Thomas Bøgholm et al. “Towards harnessing theories through tool support for hard real-time Java programming”. In: *Innovations in Systems and Software Engineering* 9.1 (June 2012), pp. 17–28. DOI: 10.1007/s11334-012-0185-4. URL: <https://doi.org/10.1007/s11334-012-0185-4>.
- [204] Florian Böhl, Simon Greiner, and Patrik Scheidecker. “Proving Correctness and Security of Two-Party Computation Implemented in Java in Presence of a Semi-honest Sender”. In: *Cryptology and Network Security*. Springer International Publishing, 2014, pp. 175–190. DOI: 10.1007/978-3-319-12280-9\_12. URL: [https://doi.org/10.1007/978-3-319-12280-9\\_12](https://doi.org/10.1007/978-3-319-12280-9_12).
- [205] Rose Bohrer and André Platzer. “Refining Constructive Hybrid Games”. en. In: Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2020. DOI: 10.4230/LIPICS.FSCD.2020.14. URL: <https://drops.dagstuhl.de/opus/volltexte/2020/12336/>.
- [206] Eerke A. Boiten, John Derrick, and Graeme Smith, eds. *Integrated Formal Methods*. Springer Berlin Heidelberg, 2004. DOI: 10.1007/b96106. URL: <https://doi.org/10.1007/b96106>.
- [207] Mahmoud Bokhari and Markus Wagner. “Improving Test Coverage of Formal Verification Systems via Beam Search”. In: *Proceedings of the Companion Publication of the 2015 Annual Conference on Genetic and Evolutionary Computation*. ACM, July 2015. DOI: 10.1145/2739482.2764670. URL: <https://doi.org/10.1145/2739482.2764670>.
- [208] Stefanie Bolle. “Feature-orientiertes Framing für die Verifikation von Software-Produktlinien: Masterarbeit”. de. In: (2017). DOI: 10.24355/DBBS.084-201711280920. URL: [https://leopard.tu-braunschweig.de/receive/dbbs\\_mods\\_00065342](https://leopard.tu-braunschweig.de/receive/dbbs_mods_00065342).

- [209] Borzoo Bonakdarpour, Cesar Sanchez, and Gerardo Schneider. “Monitoring Hyperproperties by Combining Static Analysis and Runtime Verification”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Verification*. Springer International Publishing, 2018, pp. 8–27. DOI: 10.1007/978-3-030-03421-4\_2. URL: [https://doi.org/10.1007%2F978-3-030-03421-4\\_2](https://doi.org/10.1007%2F978-3-030-03421-4_2).
- [210] Silvia Bonfanti, Angelo Gargantini, and Atif Mashkoor. “Design and validation of a C code generator from Abstract State Machines specifications”. In: *Journal of Software: Evolution and Process* 32.2 (Nov. 2019). DOI: 10.1002/smr.2205. URL: <https://doi.org/10.1002%2Fsmr.2205>.
- [211] Silvia Bonfanti, Angelo Gargantini, and Atif Mashkoor. “Generation of C Unit Tests from Abstract State Machines Specifications”. In: *2018 IEEE International Conference on Software Testing, Verification and Validation Workshops (ICSTW)*. IEEE, Apr. 2018. DOI: 10.1109/icstw.2018.00049. URL: <https://doi.org/10.1109%2Ficstw.2018.00049>.
- [212] Adilson Luiz Bonifacio and Wellington Aparecido Della Mura. “Automatically running experiments on checking multi-party contracts”. In: *Artificial Intelligence and Law* 29.3 (Sept. 2020), pp. 287–310. DOI: 10.1007/s10506-020-09276-y. URL: <https://doi.org/10.1007%2Fs10506-020-09276-y>.
- [213] R. H. Bordini et al. “Property-based Slicing for Agent Verification”. In: *Journal of Logic and Computation* 19.6 (June 2009), pp. 1385–1425. DOI: 10.1093/logcom/exp029. URL: <https://doi.org/10.1093%2Flogcom%2Fexp029>.
- [214] Tabea Bordis et al. “Correctness-by-Construction”. In: *ACM SIGAda Ada Letters* 42.2 (Apr. 2023), pp. 75–78. DOI: 10.1145/3591335.3591343. URL: <https://doi.org/10.1145%2F3591335.3591343>.
- [215] Tabea Bordis et al. “Re-CorC-ing KeY: Correct-by-Construction Software Development Based on KeY”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 80–104. DOI: 10.1007/978-3-031-08166-8\_5. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_5](https://doi.org/10.1007%2F978-3-031-08166-8_5).
- [216] Tabea Bordis et al. “Variational correctness-by-construction”. In: *Proceedings of the 14th International Working Conference on Variability Modelling of Software-Intensive Systems*. ACM, Feb. 2020. DOI: 10.1145/3377024.3377038. URL: <https://doi.org/10.1145%2F3377024.3377038>.
- [217] Marian Borek et al. “Security requirements formalized with OCL in a model-driven approach”. In: *2013 3rd International Workshop on Model-Driven Requirements Engineering (MoDRE)*. IEEE, July 2013. DOI: 10.1109/modre.2013.6597265. URL: <https://doi.org/10.1109%2Fmodre.2013.6597265>.

- [218] S. Borgo. “Modal Operators with Adaptable Semantics for Multi-agent Systems”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2005, pp. 186–197. DOI: 10.1007/11558590\_20. URL: [https://doi.org/10.1007%2F11558590\\_20](https://doi.org/10.1007%2F11558590_20).
- [219] Thorsten Bormer et al. “The COST IC0701 Verification Competition 2011”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2012, pp. 3–21. DOI: 10.1007/978-3-642-31762-0\_2. URL: [https://doi.org/10.1007%2F978-3-642-31762-0\\_2](https://doi.org/10.1007%2F978-3-642-31762-0_2).
- [220] Petra van den Bos and Marieke Huisman. “The Integration of Testing and Program Verification”. In: *Lecture Notes in Computer Science*. Springer Nature Switzerland, 2022, pp. 524–538. DOI: 10.1007/978-3-031-15629-8\_28. URL: [https://doi.org/10.1007%2F978-3-031-15629-8\\_28](https://doi.org/10.1007%2F978-3-031-15629-8_28).
- [221] Dragan Bošnački et al. “Towards Modular Verification of Threaded Concurrent Executable Code Generated from DSL Models”. In: *Formal Aspects of Component Software*. Springer International Publishing, 2016, pp. 141–160. DOI: 10.1007/978-3-319-28934-2\_8. URL: [https://doi.org/10.1007%2F978-3-319-28934-2\\_8](https://doi.org/10.1007%2F978-3-319-28934-2_8).
- [222] Joseph Boudou, Andreas Herzig, and Nicolas Troquard. “Resource Separation in Dynamic Logic of Propositional Assignments”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 155–170. DOI: 10.1007/978-3-030-38808-9\_10. URL: [https://doi.org/10.1007%2F978-3-030-38808-9\\_10](https://doi.org/10.1007%2F978-3-030-38808-9_10).
- [223] Joseph Boudou, Andreas Herzig, and Nicolas Troquard. “Resource separation in dynamic logic of propositional assignments”. In: *Journal of Logical and Algebraic Methods in Programming* 121 (June 2021), p. 100683. DOI: 10.1016/j.jlamp.2021.100683. URL: <https://doi.org/10.1016%2Fj.jlamp.2021.100683>.
- [224] Joseph Boudou and Emiliano Lorini. “Decidability and Expressivity of Ockhamist Propositional Dynamic Logics”. In: *Logics in Artificial Intelligence*. Springer International Publishing, 2016, pp. 144–158. DOI: 10.1007/978-3-319-48758-8\_10. URL: [https://doi.org/10.1007%2F978-3-319-48758-8\\_10](https://doi.org/10.1007%2F978-3-319-48758-8_10).
- [225] Lydie du Bousquet and Michel Lévy. “Proof Process Evaluation with Mutation Analysis”. In: *Tests and Proofs*. Springer Berlin Heidelberg, 2010, pp. 55–60. DOI: 10.1007/978-3-642-13977-2\_6. URL: [https://doi.org/10.1007%2F978-3-642-13977-2\\_6](https://doi.org/10.1007%2F978-3-642-13977-2_6).
- [226] Lydie du Bousquet et al. “Reusing a JML Specification Dedicated to Verification for Testing, and Vice-Versa: Case Studies”. In: *Journal of Automated Reasoning* 45.4 (June 2009), pp. 415–435. DOI: 10.1007/s10817-009-9132-y. URL: <https://doi.org/10.1007%2Fs10817-009-9132-y>.
- [227] Laura Bozzelli, Hans van Ditmarsch, and Sophie Pinchinat. “The complexity of one-agent refinement modal logic”. In: *Theoretical Computer Science* 603 (Oct. 2015), pp. 58–83. DOI: 10.1016/j.tcs.2015.07.015. URL: <https://doi.org/10.1016%2Fj.tcs.2015.07.015>.

- [228] Laura Bozzelli et al. “Refinement modal logic”. In: *Information and Computation* 239 (Dec. 2014), pp. 303–339. DOI: 10.1016/j.ic.2014.07.013. URL: <https://doi.org/10.1016%2Fj.ic.2014.07.013>.
- [229] Julian Bradfield and Igor Walukiewicz. “The mu-calculus and Model Checking”. In: *Handbook of Model Checking*. Springer International Publishing, 2018, pp. 871–919. DOI: 10.1007/978-3-319-10575-8\_26. URL: [https://doi.org/10.1007%2F978-3-319-10575-8\\_26](https://doi.org/10.1007%2F978-3-319-10575-8_26).
- [230] Ronen Brafman, Giuseppe De Giacomo, and Fabio Patrizi. “LTLf/LDLf Non-Markovian Rewards”. In: *Proceedings of the AAAI Conference on Artificial Intelligence* 32.1 (Apr. 2018). DOI: 10.1609/aaai.v32i1.11572. URL: <https://doi.org/10.1609%2Faaai.v32i1.11572>.
- [231] Ronen I. Brafman and Giuseppe De Giacomo. “Planning for LTLf /LDLf Goals in Non-Markovian Fully Observable Nondeterministic Domains”. In: *Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence*. International Joint Conferences on Artificial Intelligence Organization, Aug. 2019. DOI: 10.24963/ijcai.2019/222. URL: <https://doi.org/10.24963%2Fijcai.2019%2F222>.
- [232] Thomas Braibant, Jacques-Henri Jourdan, and David Monniaux. “Implementing and Reasoning About Hash-consed Data Structures in Coq”. In: *Journal of Automated Reasoning* 53.3 (June 2014), pp. 271–304. DOI: 10.1007/s10817-014-9306-0. URL: <https://doi.org/10.1007%2Fs10817-014-9306-0>.
- [233] Adrian Brasoveanu. “The grammar of quantification and the fine structure of interpretation contexts”. In: *Synthese* 190.15 (June 2012), pp. 3001–3051. DOI: 10.1007/s11229-012-0118-7. URL: <https://doi.org/10.1007%2Fs11229-012-0118-7>.
- [234] Claudio Fuentes Bravo and Patricio Fuentes Bravo. “Molecular Logic: Brief Introduction and Some Philosophical Considerations”. In: *Molecular Logic and Computational Synthetic Biology*. Springer International Publishing, 2019, pp. 1–17. DOI: 10.1007/978-3-030-19432-1\_1. URL: [https://doi.org/10.1007%2F978-3-030-19432-1\\_1](https://doi.org/10.1007%2F978-3-030-19432-1_1).
- [235] Joachim Breitner. “Visual Theorem Proving with the Incredible Proof Machine”. In: *Interactive Theorem Proving*. Springer International Publishing, 2016, pp. 123–139. DOI: 10.1007/978-3-319-43144-4\_8. URL: [https://doi.org/10.1007%2F978-3-319-43144-4\\_8](https://doi.org/10.1007%2F978-3-319-43144-4_8).
- [236] Jon Hael Brenas, Rachid Echahed, and Martin Strecker. “C2PDLS: A Combination of Combinatory and Converse PDL with Substitutions”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/gwcz. URL: <https://doi.org/10.29007%2Fgwcz>.
- [237] Peter T. Breuer and Simon J. Pickin. “Soundness and Completeness of the NRB Verification Logic”. In: *Software Engineering and Formal Methods*. Springer International Publishing, 2014, pp. 389–404. DOI: 10.1007/978-3-319-05032-4\_28. URL: [https://doi.org/10.1007%2F978-3-319-05032-4\\_28](https://doi.org/10.1007%2F978-3-319-05032-4_28).
- [238] Chris Brink, Katarina Britz, and Renate A. Schmidt. “Peirce algebras”. In: *Formal Aspects of Computing* 6.3 (May 1994), pp. 339–358. DOI: 10.1007/bf01215410. URL: <https://doi.org/10.1007%2Fbf01215410>.



- [239] Katarina Britz, Thomas Meyer, and Ivan Varzinczak. “Preferential Reasoning for Modal Logics”. In: *Electronic Notes in Theoretical Computer Science* 278 (Nov. 2011), pp. 55–69. DOI: 10.1016/j.entcs.2011.10.006. URL: <https://doi.org/10.1016%2Fj.entcs.2011.10.006>.
- [240] Marc Brockschmidt et al. “Automated Detection of Non-termination and NullPointerExceptions for Java Bytecode”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2012, pp. 123–141. DOI: 10.1007/978-3-642-31762-0\_9. URL: [https://doi.org/10.1007%2F978-3-642-31762-0\\_9](https://doi.org/10.1007%2F978-3-642-31762-0_9).
- [241] Jan Broersen. “A Complete STIT Logic for Knowledge and Action, and Some of Its Applications”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2009, pp. 47–59. DOI: 10.1007/978-3-540-93920-7\_4. URL: [https://doi.org/10.1007%2F978-3-540-93920-7\\_4](https://doi.org/10.1007%2F978-3-540-93920-7_4).
- [242] Susan Windisch Brown et al. “Semantic Representations for NLP Using VerbNet and the Generative Lexicon”. In: *Frontiers in Artificial Intelligence* 5 (Apr. 2022). DOI: 10.3389/frai.2022.821697. URL: <https://doi.org/10.3389%2Ffrai.2022.821697>.
- [243] “Browning on Inquiry Into inquiry, Part I”. In: *Transactions of the Charles S. Peirce Society* 45.1 (2009), p. 27. DOI: 10.2979/tra.2009.45.1.27. URL: <https://doi.org/10.2979%2Ftra.2009.45.1.27>.
- [244] Achim D. Brucker, Jürgen Doser, and Burkhart Wolff. “An MDA Framework Supporting OCL”. en. In: *Electronic Communications of the EASST* (2007), Volume 5: OCL for (Meta-)Models in Multiple Application Domains 2006. DOI: 10.14279/TUJ.ECEASST.5.45. URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/45>.
- [245] Achim D. Brucker and Burkhart Wolff. “An Extensible Encoding of Object-oriented Data Models in hol”. In: *Journal of Automated Reasoning* 41.3-4 (Nov. 2008), pp. 219–249. DOI: 10.1007/s10817-008-9108-3. URL: <https://doi.org/10.1007%2Fs10817-008-9108-3>.
- [246] Achim D. Brucker and Burkhart Wolff. “Semantics, calculi, and analysis for object-oriented specifications”. In: *Acta Informatica* 46.4 (Mar. 2009), pp. 255–284. DOI: 10.1007/s00236-009-0093-8. URL: <https://doi.org/10.1007%2Fs00236-009-0093-8>.
- [247] Roberto Bruni, Carla Ferreira, and Anne Kersten Kauer. “First-Order Dynamic Logic for Compensable Processes”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 104–121. DOI: 10.1007/978-3-642-30829-1\_8. URL: [https://doi.org/10.1007%2F978-3-642-30829-1\\_8](https://doi.org/10.1007%2F978-3-642-30829-1_8).
- [248] Daniel Bruns. “Deductive Verification of Concurrent Programs”. In: (2015). DOI: 10.5445/IR/1000045641. URL: <http://digbib.ubka.uni-karlsruhe.de/volltexte/1000045641>.
- [249] Daniel Bruns, Vladimir Klebanov, and Ina Schaefer. “Verification of Software Product Lines with Delta-Oriented Slicing”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2011, pp. 61–75. DOI: 10.1007/978-3-642-18070-5\_5. URL: [https://doi.org/10.1007%2F978-3-642-18070-5\\_5](https://doi.org/10.1007%2F978-3-642-18070-5_5).

- [250] Daniel Bruns, Wojciech Mostowski, and Mattias Ulbrich. “Implementation-level verification of algorithms with KeY”. In: *International Journal on Software Tools for Technology Transfer* 17.6 (Nov. 2013), pp. 729–744. DOI: 10.1007/s10009-013-0293-y. URL: <https://doi.org/10.1007/2Fs10009-013-0293-y>.
- [251] Richard Bubel and Reiner Hähnle. “Integration of informal and formal development of object-oriented safety-critical software”. In: *International Journal on Software Tools for Technology Transfer* 7.3 (Dec. 2004), pp. 197–211. DOI: 10.1007/s10009-004-0166-5. URL: <https://doi.org/10.1007/2Fs10009-004-0166-5>.
- [252] Richard Bubel, Reiner Hähnle, and Ulrich Geilmann. “A Formalisation of Java Strings for Program Specification and Verification”. In: *Software Engineering and Formal Methods*. Springer Berlin Heidelberg, 2011, pp. 90–105. DOI: 10.1007/978-3-642-24690-6\_8. URL: [https://doi.org/10.1007/2F978-3-642-24690-6\\_8](https://doi.org/10.1007/2F978-3-642-24690-6_8).
- [253] Richard Bubel, Reiner Hähnle, and Ran Ji. “Interleaving Symbolic Execution and Partial Evaluation”. In: *Formal Methods for Components and Objects*. Springer Berlin Heidelberg, 2010, pp. 125–146. DOI: 10.1007/978-3-642-17071-3\_7. URL: [https://doi.org/10.1007/2F978-3-642-17071-3\\_7](https://doi.org/10.1007/2F978-3-642-17071-3_7).
- [254] Richard Bubel, Reiner Hähnle, and Asmae Heydari Tabar. “A Program Logic for Dependence Analysis”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 83–100. DOI: 10.1007/978-3-030-34968-4\_5. URL: [https://doi.org/10.1007/2F978-3-030-34968-4\\_5](https://doi.org/10.1007/2F978-3-030-34968-4_5).
- [255] Richard Bubel, Reiner Hähnle, and Benjamin Weiß. “Abstract Interpretation of Symbolic Execution with Explicit State Updates”. In: *Formal Methods for Components and Objects*. Springer Berlin Heidelberg, 2009, pp. 247–277. DOI: 10.1007/978-3-642-04167-9\_13. URL: [https://doi.org/10.1007/2F978-3-642-04167-9\\_13](https://doi.org/10.1007/2F978-3-642-04167-9_13).
- [256] Richard Bubel, Antonio Flores Montoya, and Reiner Hähnle. “Analysis of Executable Software Models”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 1–25. DOI: 10.1007/978-3-319-07317-0\_1. URL: [https://doi.org/10.1007/2F978-3-319-07317-0\\_1](https://doi.org/10.1007/2F978-3-319-07317-0_1).
- [257] Richard Bubel, Andreas Roth, and Philipp Rümmer. “Ensuring the Correctness of Lightweight Tactics for JavaCard Dynamic Logic”. In: *Electronic Notes in Theoretical Computer Science* 199 (Feb. 2008), pp. 107–128. DOI: 10.1016/j.entcs.2007.11.015. URL: <https://doi.org/10.1016/2Fj.entcs.2007.11.015>.
- [258] Richard Bubel et al. “A Dynamic Logic with Traces and Coinduction”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2015, pp. 307–322. DOI: 10.1007/978-3-319-24312-2\_21. URL: [https://doi.org/10.1007/2F978-3-319-24312-2\\_21](https://doi.org/10.1007/2F978-3-319-24312-2_21).
- [259] Richard Bubel et al. *Towards Trace-based Deductive Verification (Tech Report)*. 2022. DOI: 10.48550/ARXIV.2211.09487. URL: <https://arxiv.org/abs/2211.09487>.

- [260] Richard Bubel et al. “Trace-based Deductive Verification”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/vdfd. URL: <https://doi.org/10.29007%2Fvdfd>.
- [261] Marko Kleine Büning and Carsten Sinz. “Automatic Modularization of Large Programs for Bounded Model Checking”. In: *Formal Methods and Software Engineering*. Springer International Publishing, 2019, pp. 186–202. DOI: 10.1007/978-3-030-32409-4\_12. URL: [https://doi.org/10.1007%2F978-3-030-32409-4\\_12](https://doi.org/10.1007%2F978-3-030-32409-4_12).
- [262] Lilian Burdy et al. “An overview of JML tools and applications”. In: *International Journal on Software Tools for Technology Transfer* 7.3 (Dec. 2004), pp. 212–232. DOI: 10.1007/s10009-004-0167-4. URL: <https://doi.org/10.1007%2Fs10009-004-0167-4>.
- [263] David A. Burke and Kristofer Johannisson. “Translating Formal Software Specifications to Natural Language”. In: *Logical Aspects of Computational Linguistics*. Springer Berlin Heidelberg, 2005, pp. 51–66. DOI: 10.1007/11422532\_4. URL: [https://doi.org/10.1007%2F11422532\\_4](https://doi.org/10.1007%2F11422532_4).
- [264] A. Burrieza, E. Muñoz-Velasco, and M. Ojeda-Aciego. “A Propositional Dynamic Logic Approach for Order of Magnitude Reasoning”. In: *Advances in Artificial Intelligence – IBERAMIA 2008*. Springer Berlin Heidelberg, pp. 11–20. DOI: 10.1007/978-3-540-88309-8\_2. URL: [https://doi.org/10.1007%2F978-3-540-88309-8\\_2](https://doi.org/10.1007%2F978-3-540-88309-8_2).
- [265] Alfredo Burrieza, Emilio Muñoz-Velasco, and Manuel Ojeda-Aciego. “Closeness and Distance Relations in Order of Magnitude Qualitative Reasoning via PDL”. In: *Current Topics in Artificial Intelligence*. Springer Berlin Heidelberg, 2010, pp. 71–80. DOI: 10.1007/978-3-642-14264-2\_8. URL: [https://doi.org/10.1007%2F978-3-642-14264-2\\_8](https://doi.org/10.1007%2F978-3-642-14264-2_8).
- [266] Pedro Cabalar, Martín Diéguez, and Torsten Schaub. “Towards Dynamic Answer Set Programming over Finite Traces”. In: *Logic Programming and Nonmonotonic Reasoning*. Springer International Publishing, 2019, pp. 148–162. DOI: 10.1007/978-3-030-20528-7\_12. URL: [https://doi.org/10.1007%2F978-3-030-20528-7\\_12](https://doi.org/10.1007%2F978-3-030-20528-7_12).
- [267] J. Cabot, R. Clarisó, and D. Riera. “On the verification of UML/OCL class diagrams using constraint programming”. In: *Journal of Systems and Software* 93 (July 2014), pp. 1–23. DOI: 10.1016/j.jss.2014.03.023. URL: <https://doi.org/10.1016%2Fj.jss.2014.03.023>.
- [268] Jordi Cabot. “From Declarative to Imperative UML/OCL Operation Specifications”. In: *Conceptual Modeling - ER 2007*. Springer Berlin Heidelberg, 2007, pp. 198–213. DOI: 10.1007/978-3-540-75563-0\_15. URL: [https://doi.org/10.1007%2F978-3-540-75563-0\\_15](https://doi.org/10.1007%2F978-3-540-75563-0_15).
- [269] Jordi Cabot, Raquel Pau, and Ruth Raventós. “From UML/OCL to SBVR specifications: A challenging transformation”. In: *Information Systems* 35.4 (June 2010), pp. 417–440. DOI: 10.1016/j.is.2008.12.002. URL: <https://doi.org/10.1016%2Fj.is.2008.12.002>.

- [270] Jordi Cabot and Ernest Teniente. “Constraint Support in MDA Tools: A Survey”. In: *Model Driven Architecture – Foundations and Applications*. Springer Berlin Heidelberg, 2006, pp. 256–267. DOI: 10.1007/11787044\_20. URL: [https://doi.org/10.1007%2F11787044\\_20](https://doi.org/10.1007%2F11787044_20).
- [271] Jordi Cabot and Ernest Teniente. “Incremental integrity checking of UML/OCL conceptual schemas”. In: *Journal of Systems and Software* 82.9 (Sept. 2009), pp. 1459–1478. DOI: 10.1016/j.jss.2009.03.009. URL: <https://doi.org/10.1016%2Fj.jss.2009.03.009>.
- [272] Ilaria Canavotto and Eric Pacuit. “Choice-Driven Counterfactuals”. In: *Journal of Philosophical Logic* 51.2 (Oct. 2021), pp. 297–345. DOI: 10.1007/s10992-021-09629-1. URL: <https://doi.org/10.1007%2Fs10992-021-09629-1>.
- [273] Feng Cao et al. “A Contradiction Separation Dynamic Deduction Algorithm Based on Optimized Proof Search”. In: *International Journal of Computational Intelligence Systems* 12.2 (2019), p. 1245. DOI: 10.2991/ijcis.d.191022.002. URL: <https://doi.org/10.2991%2Fijcis.d.191022.002>.
- [274] Rui Cao and Pavel Naumov. “Budget-Constrained Dynamics in Multiagent Systems”. In: *Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence*. International Joint Conferences on Artificial Intelligence Organization, Aug. 2017. DOI: 10.24963/ijcai.2017/127. URL: <https://doi.org/10.24963%2Fijcai.2017%2F127>.
- [275] Jean-Lou De Carufel and Jules Desharnais. “Abstract representation theorems for demonic refinement algebras”. In: *The Journal of Logic and Algebraic Programming* 79.8 (Nov. 2010), pp. 740–767. DOI: 10.1016/j.jlap.2010.07.014. URL: <https://doi.org/10.1016%2Fj.jlap.2010.07.014>.
- [276] Gustavo Carvalho and Igor Meira. “Validating, verifying and testing timed data-flow reactive systems in Coq from controlled natural-language requirements”. In: *Science of Computer Programming* 201 (Jan. 2021), p. 102537. DOI: 10.1016/j.scico.2020.102537. URL: <https://doi.org/10.1016%2Fj.scico.2020.102537>.
- [277] Joan Casas-Roma, Antonia Huertas, and M. Elena Rodriguez. “The Logic of Imagination Acts: A Formal System for the Dynamics of Imaginary Worlds”. In: *Erkenntnis* (June 2019). DOI: 10.1007/s10670-019-00136-z. URL: <https://doi.org/10.1007%2Fs10670-019-00136-z>.
- [278] Rodrigo Castaño et al. “On Verifying Resource Contracts using Code Contracts”. In: *Electronic Proceedings in Theoretical Computer Science* 139 (Jan. 2014), pp. 1–15. DOI: 10.4204/eptcs.139.1. URL: <https://doi.org/10.4204%2Feptcs.139.1>.
- [279] Pablo F. Castro and Piotr Kulicki. “Deontic Logics Based on Boolean Algebra”. In: *Outstanding Contributions to Logic*. Springer Netherlands, Oct. 2013, pp. 85–117. DOI: 10.1007/978-94-007-7046-1\_5. URL: [https://doi.org/10.1007%2F978-94-007-7046-1\\_5](https://doi.org/10.1007%2F978-94-007-7046-1_5).

- [280] Pablo F. Castro and T.S.E. Maibaum. “Deontic action logic, atomic boolean algebras and fault-tolerance”. In: *Journal of Applied Logic* 7.4 (Dec. 2009), pp. 441–466. DOI: 10.1016/j.jal.2009.02.001. URL: <https://doi.org/10.1016%2Fj.jal.2009.02.001>.
- [281] Pablo F. Castro and Thomas S. E. Maibaum. “Automated Reasoning over Deontic Action Logics with Finite Vocabularies”. In: *Electronic Proceedings in Theoretical Computer Science* 139 (Jan. 2014), pp. 16–30. DOI: 10.4204/eptcs.139.2. URL: <https://doi.org/10.4204%2Feptcs.139.2>.
- [282] Matteo Cavaliere and Radu Mardare. “Partial Knowledge in Membrane Systems: A Logical Approach”. In: *Membrane Computing*. Springer Berlin Heidelberg, 2006, pp. 279–297. DOI: 10.1007/11963516\_18. URL: [https://doi.org/10.1007%2F11963516\\_18](https://doi.org/10.1007%2F11963516_18).
- [283] Razvan Certezeanu et al. “Quicksort Revisited”. In: *Theory and Practice of Formal Methods*. Springer International Publishing, 2016, pp. 407–426. DOI: 10.1007/978-3-319-30734-3\_27. URL: [https://doi.org/10.1007%2F978-3-319-30734-3\\_27](https://doi.org/10.1007%2F978-3-319-30734-3_27).
- [284] Sourav Chakraborty et al. *On simple expectations and observations of intelligent agents: A complexity study*. 2023. DOI: 10.48550/ARXIV.2306.02769. URL: <https://arxiv.org/abs/2306.02769>.
- [285] Supratik Chakraborty and Jorge A. Navas, eds. *Verified Software. Theories, Tools, and Experiments*. Springer International Publishing, 2020. DOI: 10.1007/978-3-030-41600-3. URL: <https://doi.org/10.1007%2F978-3-030-41600-3>.
- [286] Patrice Chalin. “Are the Logical Foundations of Verifying Compiler Prototypes Matching user Expectations?” In: *Formal Aspects of Computing* 19.2 (June 2007), pp. 139–158. DOI: 10.1007/s00165-006-0016-1. URL: <https://doi.org/10.1007%2Fs00165-006-0016-1>.
- [287] Patrice Chalin. “JML Support for Primitive Arbitrary Precision Numeric Types: Definition and Semantics.” In: *The Journal of Object Technology* 3.6 (2004), p. 57. DOI: 10.5381/jot.2004.3.6.a3. URL: <https://doi.org/10.5381%2Fjot.2004.3.6.a3>.
- [288] Patrice Chalin, Perry R. James, and George Karabotsos. “JML4: Towards an Industrial Grade IVE for Java and Next Generation Research Platform for JML”. In: *Verified Software: Theories, Tools, Experiments*. Springer Berlin Heidelberg, pp. 70–83. DOI: 10.1007/978-3-540-87873-5\_9. URL: [https://doi.org/10.1007%2F978-3-540-87873-5\\_9](https://doi.org/10.1007%2F978-3-540-87873-5_9).
- [289] Patrice Chalin et al. “Beyond Assertions: Advanced Specification and Verification with JML and ESC/Java2”. In: *Formal Methods for Components and Objects*. Springer Berlin Heidelberg, 2006, pp. 342–363. DOI: 10.1007/11804192\_16. URL: [https://doi.org/10.1007%2F11804192\\_16](https://doi.org/10.1007%2F11804192_16).

- [290] Patrice Chalin et al. “Towards an industrial grade IVE for Java and next generation research platform for JML”. In: *International Journal on Software Tools for Technology Transfer* 12.6 (June 2010), pp. 429–446. DOI: 10.1007/s10009-010-0164-8. URL: <https://doi.org/10.1007%2Fs10009-010-0164-8>.
- [291] Liang Chang et al. “Dynamic Logic for the Semantic Web”. In: *Intelligent Information Processing VI*. Springer Berlin Heidelberg, 2012, pp. 137–146. DOI: 10.1007/978-3-642-32891-6\_19. URL: [https://doi.org/10.1007%2F978-3-642-32891-6\\_19](https://doi.org/10.1007%2F978-3-642-32891-6_19).
- [292] Arthur Charguéraud. “Characteristic formulae for the verification of imperative programs”. In: *ACM SIGPLAN Notices* 46.9 (Sept. 2011), pp. 418–430. DOI: 10.1145/2034574.2034828. URL: <https://doi.org/10.1145%2F2034574.2034828>.
- [293] Fahima Cheikh, Giuseppe De Giacomo, and Massimo Mecella. “Automatic web services composition in trustaware communities”. In: *Proceedings of the 3rd ACM workshop on Secure web services*. ACM, Nov. 2006. DOI: 10.1145/1180367.1180376. URL: <https://doi.org/10.1145%2F1180367.1180376>.
- [294] Taolue Chen, Yanjing Wang, and Jaco van de Pol. “PDL over Accelerated Labeled Transition Systems”. In: *2008 2nd IFIP/IEEE International Symposium on Theoretical Aspects of Software Engineering*. IEEE, June 2008. DOI: 10.1109/tase.2008.42. URL: <https://doi.org/10.1109%2Ftase.2008.42>.
- [295] Xiaohong Chen and Grigore Rosu. “Matching -Logic”. In: *2019 34th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS)*. IEEE, June 2019. DOI: 10.1109/lics.2019.8785675. URL: <https://doi.org/10.1109%2Flics.2019.8785675>.
- [296] Xiaohong Chen and Grigore Roşu. “ $\mathbb{K}$ —A Semantic Framework for Programming Languages and Formal Analysis”. In: *Engineering Trustworthy Software Systems*. Springer International Publishing, 2020, pp. 122–158. DOI: 10.1007/978-3-030-55089-9\_4. URL: [https://doi.org/10.1007%2F978-3-030-55089-9\\_4](https://doi.org/10.1007%2F978-3-030-55089-9_4).
- [297] Xiaohong Chen and Grigore Roşu. “A Language-Independent Program Verification Framework”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Verification*. Springer International Publishing, 2018, pp. 92–102. DOI: 10.1007/978-3-030-03421-4\_7. URL: [https://doi.org/10.1007%2F978-3-030-03421-4\\_7](https://doi.org/10.1007%2F978-3-030-03421-4_7).
- [298] Yifeng Chen and J. W. Sanders. “Compositional Reasoning for Pointer Structures”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2006, pp. 115–139. DOI: 10.1007/11783596\_10. URL: [https://doi.org/10.1007%2F11783596\\_10](https://doi.org/10.1007%2F11783596_10).
- [299] James Cheney. “A dependent nominal type theory”. In: *Logical Methods in Computer Science* Volume 8, Issue 1 (Feb. 2012). DOI: 10.2168/lmcs-8(1:8)2012. URL: <https://doi.org/10.2168%2Flmcs-8%281%3A8%292012>.

- [300] James Cheney and Christian Urban. “Nominal logic programming”. In: *ACM Transactions on Programming Languages and Systems* 30.5 (Aug. 2008), pp. 1–47. DOI: 10.1145/1387673.1387675. URL: <https://doi.org/10.1145/1387673.1387675>.
- [301] Haitao Cheng et al. “Dynamic spatio-temporal logic based on RCC-8”. In: *Concurrency and Computation: Practice and Experience* 33.22 (July 2020). DOI: 10.1002/cpe.5900. URL: <https://doi.org/10.1002/cpe.5900>.
- [302] Michele Chiari, Dino Mandrioli, and Matteo Pradella. “A First-Order Complete Temporal Logic for Structured Context-Free Languages”. In: *Logical Methods in Computer Science* Volume 18, Issue 3 (July 2022). DOI: 10.46298/lmcs-18(3:11)2022. URL: [https://doi.org/10.46298/lmcs-18\(3:11\)2022](https://doi.org/10.46298/lmcs-18(3:11)2022).
- [303] Jesús Mauricio Chimento, Wolfgang Ahrendt, and Gerardo Schneider. “Testing meets static and runtime verification”. In: *Proceedings of the 6th Conference on Formal Methods in Software Engineering*. ACM, June 2018. DOI: 10.1145/3193992.3194000. URL: <https://doi.org/10.1145/3193992.3194000>.
- [304] Jesús Mauricio Chimento et al. “StaRVOOrS : A Tool for Combined Static and Runtime Verification of Java”. In: *Runtime Verification*. Springer International Publishing, 2015, pp. 297–305. DOI: 10.1007/978-3-319-23820-3\_21. URL: [https://doi.org/10.1007/978-3-319-23820-3\\_21](https://doi.org/10.1007/978-3-319-23820-3_21).
- [305] Joanna Dobroslawa Chimiak-Opoka et al. “Requirements Analysis for an Integrated OCL Development Environment”. en. In: *Electronic Communications of the EASST* (2010), Volume 24: The Pragmatics of OCL and Other Textual Specification Languages 2009. DOI: 10.14279/TUJ.ECEASST.24.327. URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/327>.
- [306] Janice Chin and David Pearce. “Finding Bugs with Specification-Based Testing is Easy!” In: *The Art, Science, and Engineering of Programming* 5.3 (Feb. 2021). DOI: 10.22152/programming-journal.org/2021/5/13. URL: <https://doi.org/10.22152/programming-journal.org/2021/5/13>.
- [307] Yonghee Cho. *Exploring Technology Forecasting and Its Implications for Strategic Technology Planning*. Tech. rep. Jan. 2000. DOI: 10.15760/etd.6108. URL: <https://doi.org/10.15760/etd.6108>.
- [308] Laurence Cholvy, Christophe Garion, and Claire Saurel. “Ability in a Multi-agent Context: A Model in the Situation Calculus”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2006, pp. 23–36. DOI: 10.1007/11750734\_2. URL: [https://doi.org/10.1007/11750734\\_2](https://doi.org/10.1007/11750734_2).
- [309] Stephen Chong et al. “Quantitative Robustness Analysis of Sensor Attacks on Cyber-Physical Systems”. In: *Proceedings of the 26th ACM International Conference on Hybrid Systems: Computation and Control*. ACM, May 2023. DOI: 10.1145/3575870.3587118. URL: <https://doi.org/10.1145/3575870.3587118>.

- [310] Maria Christakis, Peter Müller, and Valentin Wüstholtz. “Collaborative Verification and Testing with Explicit Assumptions”. In: *FM 2012: Formal Methods*. Springer Berlin Heidelberg, 2012, pp. 132–146. DOI: 10.1007/978-3-642-32759-9\_13. URL: [https://doi.org/10.1007/978-3-642-32759-9\\_13](https://doi.org/10.1007/978-3-642-32759-9_13).
- [311] Zoé Christoff and Jens Ulrik Hansen. “A logic for diffusion in social networks”. In: *Journal of Applied Logic* 13.1 (Mar. 2015), pp. 48–77. DOI: 10.1016/j.jal.2014.11.011. URL: <https://doi.org/10.1016/j.jal.2014.11.011>.
- [312] Koen Claessen and Hans Svensson. “Finding Counter Examples in Induction Proofs”. In: *Tests and Proofs*. Springer Berlin Heidelberg, pp. 48–65. DOI: 10.1007/978-3-540-79124-9\_5. URL: [https://doi.org/10.1007/978-3-540-79124-9\\_5](https://doi.org/10.1007/978-3-540-79124-9_5).
- [313] Manuel Clavel, Marina Egea, and Miguel Angel García De Dios. “Checking Unsatisfiability for OCL Constraints”. en. In: *Electronic Communications of the EASST* (2010), Volume 24: The Pragmatics of OCL and Other Textual Specification Languages 2009. DOI: 10.14279/TUJ.ECEASST.24.334. URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/334>.
- [314] ROBIN COCKETT and ERNIE MANES. “Boolean and classical restriction categories”. In: *Mathematical Structures in Computer Science* 19.2 (Apr. 2009), pp. 357–416. DOI: 10.1017/s0960129509007543. URL: <https://doi.org/10.1017/s0960129509007543>.
- [315] Bob Coecke. “An Alternative Gospel of Structure: Order, Composition, Processes”. In: *Quantum Physics and Linguistics*. Oxford University Press, Feb. 2013, pp. 1–21. DOI: 10.1093/acprof:oso/9780199646296.003.0001. URL: <https://doi.org/10.1093/acprof:oso/9780199646296.003.0001>.
- [316] Michael Cohen, Wen Tang, and Yanjing Wang. “De Re Updates”. In: *Electronic Proceedings in Theoretical Computer Science* 335 (June 2021), pp. 103–117. DOI: 10.4204/eptcs.335.9. URL: <https://doi.org/10.4204/eptcs.335.9>.
- [317] Philip R. Cohen and Lucian Galescu. *A Planning-Based Explainable Collaborative Dialogue System*. 2023. DOI: 10.48550/ARXIV.2302.09646. URL: <https://arxiv.org/abs/2302.09646>.
- [318] David R. Cok. “Improved usability and performance of SMT solvers for debugging specifications”. In: *International Journal on Software Tools for Technology Transfer* 12.6 (Feb. 2010), pp. 467–481. DOI: 10.1007/s10009-010-0138-x. URL: <https://doi.org/10.1007/s10009-010-0138-x>.
- [319] David R. Cok. “Java Automated Deductive Verification in Practice: Lessons from Industrial Proof-Based Projects”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2018, pp. 176–193. DOI: 10.1007/978-3-030-03427-6\_16. URL: [https://doi.org/10.1007/978-3-030-03427-6\\_16](https://doi.org/10.1007/978-3-030-03427-6_16).



- [320] David R. Cok. “JML and OpenJML for Java 16”. In: *Proceedings of the 23rd ACM International Workshop on Formal Techniques for Java-like Programs*. ACM, July 2021. DOI: 10.1145/3464971.3468417. URL: <https://doi.org/10.1145/3464971.3468417>.
- [321] David R. Cok. “OpenJML: JML for Java 7 by Extending OpenJDK”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2011, pp. 472–479. DOI: 10.1007/978-3-642-20398-5\_35. URL: [https://doi.org/10.1007/978-3-642-20398-5\\_35](https://doi.org/10.1007/978-3-642-20398-5_35).
- [322] David R. Cok. “Reasoning with specifications containing method calls and model fields.” In: *The Journal of Object Technology* 4.8 (2005), p. 77. DOI: 10.5381/jot.2005.4.8.a4. URL: <https://doi.org/10.5381/2Fjot.2005.4.8.a4>.
- [323] David R. Cok and Scott C. Johnson. “SPEEDY: An Eclipse-based IDE for invariant inference”. In: *Electronic Proceedings in Theoretical Computer Science* 149 (Apr. 2014), pp. 44–57. DOI: 10.4204/eptcs.149.5. URL: <https://doi.org/10.4204/2Feptcs.149.5>.
- [324] David R. Cok and K. Rustan M. Leino. “Specifying the Boundary Between Unverified and Verified Code”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 105–128. DOI: 10.1007/978-3-031-08166-8\_6. URL: [https://doi.org/10.1007/978-3-031-08166-8\\_6](https://doi.org/10.1007/978-3-031-08166-8_6).
- [325] M. Collinson, K. McDonald, and D. Pym. “A substructural logic for layered graphs”. In: *Journal of Logic and Computation* 24.4 (Feb. 2014), pp. 953–988. DOI: 10.1093/logcom/exu002. URL: <https://doi.org/10.1093/2Flogcom%2Fexu002>.
- [326] Matthew Collinson, Kevin McDonald, and David Pym. “Layered graph logic as an assertion language for access control policy models”. In: *Journal of Logic and Computation* 27.1 (June 2015), pp. 41–80. DOI: 10.1093/logcom/exv020. URL: <https://doi.org/10.1093/2Flogcom%2Fexv020>.
- [327] “Contents”. In: *Alzheimer’s & Dementia* 4.4S\_Part\_1 (July 2008). DOI: 10.1016/s1552-5260(08)02677-0. URL: <https://doi.org/10.1016/2Fs1552-5260%2808%2902677-0>.
- [328] Diana Costa. *4DL: a four-valued Dynamic logic and its proof-theory*. 2022. DOI: 10.48550/ARXIV.2203.17179. URL: <https://arxiv.org/abs/2203.17179>.
- [329] Umberto Souza da Costa et al. “Specification and Runtime Verification of Java Card Programs”. In: *Electronic Notes in Theoretical Computer Science* 240 (July 2009), pp. 61–78. DOI: 10.1016/j.entcs.2009.05.045. URL: <https://doi.org/10.1016/2Fj.entcs.2009.05.045>.
- [330] Dolors Costal et al. “Improving the definition of general constraints in UML”. In: *Software & Systems Modeling* 7.4 (Jan. 2008), pp. 469–486. DOI: 10.1007/s10270-007-0078-4. URL: <https://doi.org/10.1007/2Fs10270-007-0078-4>.

- [331] Juan Manuel Crespo and César Kunz. “A Machine-Checked Framework for Relational Separation Logic”. In: *Software Engineering and Formal Methods*. Springer Berlin Heidelberg, 2011, pp. 122–137. DOI: 10.1007/978-3-642-24690-6\_10. URL: [https://doi.org/10.1007%2F978-3-642-24690-6\\_10](https://doi.org/10.1007%2F978-3-642-24690-6_10).
- [332] N. Criado. “Using norms to control open multi-agent systems”. In: *AI Communications* 26.3 (2013), pp. 317–318. DOI: 10.3233/aic-130560. URL: <https://doi.org/10.3233%2Faic-130560>.
- [333] N. Criado, E. Argente, and V. Botti. “Open issues for normative multi-agent systems”. In: *AI Communications* 24.3 (2011), pp. 233–264. DOI: 10.3233/aic-2011-0502. URL: <https://doi.org/10.3233%2Faic-2011-0502>.
- [334] Daniela da Cruz, Maria João Frade, and Jorge Sousa Pinto. “Verification conditions for single-assignment programs”. In: *Proceedings of the 27th Annual ACM Symposium on Applied Computing*. ACM, Mar. 2012. DOI: 10.1145/2245276.2231977. URL: <https://doi.org/10.1145%2F2245276.2231977>.
- [335] Bruno Cuervo Parrino et al. “TacoFlow: optimizing SAT program verification using dataflow analysis”. In: *Software & Systems Modeling* 14.1 (Feb. 2014), pp. 45–63. DOI: 10.1007/s10270-014-0401-9. URL: <https://doi.org/10.1007%2Fs10270-014-0401-9>.
- [336] Janusz Czelakowski. “Deontology of Compound Actions”. In: *Studia Logica* 108.1 (Oct. 2018), pp. 5–47. DOI: 10.1007/s11225-018-9834-4. URL: <https://doi.org/10.1007%2Fs11225-018-9834-4>.
- [337] I. D. “The Agent Oriented Multi Flow Graphs Specification Model”. In: *Multi-Agent Systems - Modeling, Interactions, Simulations and Case Studies*. InTech, Apr. 2011. DOI: 10.5772/15824. URL: <https://doi.org/10.5772%2F15824>.
- [338] Sylvain Dailier et al. “Instrumenting a weakest precondition calculus for counterexample generation”. In: *Journal of Logical and Algebraic Methods in Programming* 99 (Oct. 2018), pp. 97–113. DOI: 10.1016/j.jlamp.2018.05.003. URL: <https://doi.org/10.1016%2Fj.jlamp.2018.05.003>.
- [339] Mohammadsadegh Dalvandi, Michael Butler, and Abdolbaghi Reza-zadeh. “Derivation of algorithmic control structures in Event-B refinement”. In: *Science of Computer Programming* 148 (Nov. 2017), pp. 49–65. DOI: 10.1016/j.scico.2017.05.010. URL: <https://doi.org/10.1016%2Fj.scico.2017.05.010>.
- [340] Ferruccio Damiani, Reiner Hähnle, and Michael Lienhardt. “Abstraction Refinement for the Analysis of Software Product Lines”. In: *Tests and Proofs*. Springer International Publishing, 2017, pp. 3–20. DOI: 10.1007/978-3-319-61467-0\_1. URL: [https://doi.org/10.1007%2F978-3-319-61467-0\\_1](https://doi.org/10.1007%2F978-3-319-61467-0_1).

- [341] Ferruccio Damiani et al. “A transformational proof system for delta-oriented programming”. In: *Proceedings of the 16th International Software Product Line Conference - Volume 2*. ACM, Sept. 2012. DOI: 10.1145/2364412.2364422. URL: <https://doi.org/10.1145/2364412.2364422>.
- [342] Ferruccio Damiani et al. “Verifying traits”. In: *Proceedings of the 13th Workshop on Formal Techniques for Java-Like Programs*. ACM, July 2011. DOI: 10.1145/2076674.2076682. URL: <https://doi.org/10.1145/2076674.2076682>.
- [343] Ferruccio Damiani et al. “Verifying traits: an incremental proof system for fine-grained reuse”. In: *Formal Aspects of Computing* 26.4 (July 2014), pp. 761–793. DOI: 10.1007/s00165-013-0278-3. URL: <https://doi.org/10.1007/s00165-013-0278-3>.
- [344] Werner Damm et al. “Automating Verification of Cooperation, Control, and Design in Traffic Applications”. In: *Formal Methods and Hybrid Real-Time Systems*. Springer Berlin Heidelberg, pp. 115–169. DOI: 10.1007/978-3-540-75221-9\_6. URL: [https://doi.org/10.1007/978-3-540-75221-9\\_6](https://doi.org/10.1007/978-3-540-75221-9_6).
- [345] Ádám Darvas, Reiner Hähnle, and David Sands. “A Theorem Proving Approach to Analysis of Secure Information Flow”. In: *Security in Pervasive Computing*. Springer Berlin Heidelberg, 2005, pp. 193–209. DOI: 10.1007/978-3-540-32004-3\_20. URL: [https://doi.org/10.1007/978-3-540-32004-3\\_20](https://doi.org/10.1007/978-3-540-32004-3_20).
- [346] Doratossadat Dastgheib and Hadi Farahani. *Doxastic Lukasiewicz Logic with Public Announcement*. 2023. DOI: 10.48550/ARXIV.2304.08077. URL: <https://arxiv.org/abs/2304.08077>.
- [347] Anupam Datta et al. “Protocol Composition Logic (PCL)”. In: *Electronic Notes in Theoretical Computer Science* 172 (Apr. 2007), pp. 311–358. DOI: 10.1016/j.entcs.2007.02.012. URL: <https://doi.org/10.1016/j.entcs.2007.02.012>.
- [348] Johann C. Dauer, Bernd Finkbeiner, and Sebastian Schirmer. “Monitoring with Verified Guarantees”. In: *Runtime Verification*. Springer International Publishing, 2021, pp. 62–80. DOI: 10.1007/978-3-030-88494-9\_4. URL: [https://doi.org/10.1007/978-3-030-88494-9\\_4](https://doi.org/10.1007/978-3-030-88494-9_4).
- [349] Christian Dax, Felix Klaedtke, and Martin Lange. “On regular temporal logics with past”. In: *Acta Informatica* 47.4 (May 2010), pp. 251–277. DOI: 10.1007/s00236-010-0118-3. URL: <https://doi.org/10.1007/s00236-010-0118-3>.
- [350] Ana De Almeida Borges et al. “The Second Order Traffic Fine: Temporal Reasoning in European Transport Regulations”. en. In: (2019). DOI: 10.4230/LIPICS.TIME.2019.6. URL: <http://drops.dagstuhl.de/opus/volltexte/2019/11364/>.

- [351] Alexandre Delteil, Laure Bourgois, and Francois Levy. “A Formalism for Active and Informative Web Services”. In: *Second International Conference on Internet and Web Applications and Services (ICIW’07)*. IEEE, May 2007. DOI: 10.1109/iciw.2007.4. URL: <https://doi.org/10.1109%2Ficiw.2007.4>.
- [352] Serge Demeyer et al. “Formal Verification of Developer Tests: A Research Agenda Inspired by Mutation Testing”. In: *Leveraging Applications of Formal Methods, Verification and Validation: Engineering Principles*. Springer International Publishing, 2020, pp. 9–24. DOI: 10.1007/978-3-030-61470-6\_2. URL: [https://doi.org/10.1007%2F978-3-030-61470-6\\_2](https://doi.org/10.1007%2F978-3-030-61470-6_2).
- [353] Robert Demolombe. “Causality in the Context of Multiple Agents”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 1–15. DOI: 10.1007/978-3-642-31570-1\_1. URL: [https://doi.org/10.1007%2F978-3-642-31570-1\\_1](https://doi.org/10.1007%2F978-3-642-31570-1_1).
- [354] Robert Demolombe and Vincent Louis. “Speech Acts with Institutional Effects in Agent Societies”. In: *Deontic Logic and Artificial Normative Systems*. Springer Berlin Heidelberg, 2006, pp. 101–114. DOI: 10.1007/11786849\_10. URL: [https://doi.org/10.1007%2F11786849\\_10](https://doi.org/10.1007%2F11786849_10).
- [355] Stéphane Demri and Morgan Deters. “Separation logics and modalities: a survey”. In: *Journal of Applied Non-Classical Logics* 25.1 (Jan. 2015), pp. 50–99. DOI: 10.1080/11663081.2015.1018801. URL: <https://doi.org/10.1080%2F11663081.2015.1018801>.
- [356] Stéphane Demri and Paul Gastin. “Specification and Verification using Temporal Logics”. In: *Modern Applications of Automata Theory*. Co-Published with Indian Institute of Science (IISc), Bangalore, India, July 2012, pp. 457–493. DOI: 10.1142/9789814271059\_0015. URL: [https://doi.org/10.1142%2F9789814271059\\_0015](https://doi.org/10.1142%2F9789814271059_0015).
- [357] Xianghua Deng, Robby, and John Hatcliff. “Towards A Case-Optimal Symbolic Execution Algorithm for Analyzing Strong Properties of Object-Oriented Programs”. In: *Fifth IEEE International Conference on Software Engineering and Formal Methods (SEFM 2007)*. IEEE, Sept. 2007. DOI: 10.1109/sefm.2007.43. URL: <https://doi.org/10.1109%2Fsefm.2007.43>.
- [358] Greg Dennis, Kuat Yessenov, and Daniel Jackson. “Bounded Verification of Voting Software”. In: *Verified Software: Theories, Tools, Experiments*. Springer Berlin Heidelberg, pp. 130–145. DOI: 10.1007/978-3-540-87873-5\_13. URL: [https://doi.org/10.1007%2F978-3-540-87873-5\\_13](https://doi.org/10.1007%2F978-3-540-87873-5_13).
- [359] Nachum Dershowitz. “Let’s be honest”. In: *Communications of the ACM* 64.5 (Apr. 2021), pp. 37–41. DOI: 10.1145/3431281. URL: <https://doi.org/10.1145%2F3431281>.
- [360] Nisha Desai and Martin Gogolla. “Developing Comprehensive Postconditions Through a Model Transformation Chain.” In: *The Journal of Object Technology* 18.3 (2019), 5:1. DOI: 10.5381/jot.2019.18.3.a5. URL: <https://doi.org/10.5381%2Fjot.2019.18.3.a5>.

- [361] Jules Desharnais, Bernhard Möller, and Fairouz Tchier. “Kleene under a modal demonic star”. In: *The Journal of Logic and Algebraic Programming* 66.2 (Feb. 2006), pp. 127–160. DOI: 10.1016/j.jlap.2005.04.006. URL: <https://doi.org/10.1016%2Fj.jlap.2005.04.006>.
- [362] David Detlefs, Greg Nelson, and James B. Saxe. “Simplify: a theorem prover for program checking”. In: *Journal of the ACM* 52.3 (May 2005), pp. 365–473. DOI: 10.1145/1066100.1066102. URL: <https://doi.org/10.1145%2F1066100.1066102>.
- [363] Kaya Deuser and Pavel Naumov. “Strategic Knowledge Acquisition”. In: *ACM Transactions on Computational Logic* 22.3 (June 2021), pp. 1–18. DOI: 10.1145/3459993. URL: <https://doi.org/10.1145%2F3459993>.
- [364] Gergely Dévai. “Embedding a Proof System in Haskell”. In: *Central European Functional Programming School*. Springer Berlin Heidelberg, 2010, pp. 354–371. DOI: 10.1007/978-3-642-17685-2\_10. URL: [https://doi.org/10.1007%2F978-3-642-17685-2\\_10](https://doi.org/10.1007%2F978-3-642-17685-2_10).
- [365] Martín Diéguez. “Temporal Answer Set Programming”. en. In: (2012). DOI: 10.4230/LIPICS.ICLP.2012.445. URL: <http://drops.dagstuhl.de/opus/volltexte/2012/3644/>.
- [366] Stefan Dillmann and Reiner Hähnle. “Automated Planning of ETCS Tracks”. In: *Reliability, Safety, and Security of Railway Systems. Modelling, Analysis, Verification, and Certification*. Springer International Publishing, 2019, pp. 79–90. DOI: 10.1007/978-3-030-18744-6\_5. URL: [https://doi.org/10.1007%2F978-3-030-18744-6\\_5](https://doi.org/10.1007%2F978-3-030-18744-6_5).
- [367] Crystal Chang Din, Richard Bubel, and Reiner Hähnle. “KeY-ABS: A Deductive Verification Tool for the Concurrent Modelling Language ABS”. In: *Automated Deduction - CADE-25*. Springer International Publishing, 2015, pp. 517–526. DOI: 10.1007/978-3-319-21401-6\_35. URL: [https://doi.org/10.1007%2F978-3-319-21401-6\\_35](https://doi.org/10.1007%2F978-3-319-21401-6_35).
- [368] Crystal Chang Din, Johan Dovland, and Olaf Owe. “Compositional Reasoning about Shared Futures”. In: *Software Engineering and Formal Methods*. Springer Berlin Heidelberg, 2012, pp. 94–108. DOI: 10.1007/978-3-642-33826-7\_7. URL: [https://doi.org/10.1007%2F978-3-642-33826-7\\_7](https://doi.org/10.1007%2F978-3-642-33826-7_7).
- [369] Crystal Chang Din, Rudolf Schlatte, and Tzu-Chun Chen. “Program Verification for Exception Handling on Active Objects Using Futures”. In: *Software Engineering and Formal Methods*. Springer International Publishing, 2018, pp. 73–88. DOI: 10.1007/978-3-319-92970-5\_5. URL: [https://doi.org/10.1007%2F978-3-319-92970-5\\_5](https://doi.org/10.1007%2F978-3-319-92970-5_5).
- [370] Crystal Chang Din et al. “Locally Abstract, Globally Concrete Semantics of Concurrent Programming Languages”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2017, pp. 22–43. DOI: 10.1007/978-3-319-66902-1\_2. URL: [https://doi.org/10.1007%2F978-3-319-66902-1\\_2](https://doi.org/10.1007%2F978-3-319-66902-1_2).

- [371] H. van Ditmarsch and R. Verbrugge. “The rules of the game are changing: Scientific impact factors and publication strategies among logicians”. In: *Journal of Logic and Computation* 21.2 (Jan. 2011), pp. 121–132. DOI: 10.1093/logcom/exr001. URL: <https://doi.org/10.1093/2Flogcom%2Fexr001>.
- [372] H. P. van Ditmarsch, W. van der Hoek, and B. P. Kooi. “Dynamic epistemic logic with assignment”. In: *Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems*. ACM, July 2005. DOI: 10.1145/1082473.1082495. URL: <https://doi.org/10.1145%2F1082473.1082495>.
- [373] Hans van Ditmarsch and Jie Fan. “Propositional quantification in logics of contingency”. In: *Journal of Applied Non-Classical Logics* 26.1 (Jan. 2016), pp. 81–102. DOI: 10.1080/11663081.2016.1184931. URL: <https://doi.org/10.1080%2F11663081.2016.1184931>.
- [374] Hans van Ditmarsch, Malvin Gattinger, and Rahim Ramezani. “Everyone Knows That Everyone Knows: Gossip Protocols for Super Experts”. In: *Studia Logica* 111.3 (Jan. 2023), pp. 453–499. DOI: 10.1007/s11225-022-10032-3. URL: <https://doi.org/10.1007%2Fs11225-022-10032-3>.
- [375] Jose Divasón and Ana Romero. “Using Krakatoa for Teaching Formal Verification of Java Programs”. In: *Formal Methods Teaching*. Springer International Publishing, 2019, pp. 37–51. DOI: 10.1007/978-3-030-32441-4\_3. URL: [https://doi.org/10.1007%2F978-3-030-32441-4\\_3](https://doi.org/10.1007%2F978-3-030-32441-4_3).
- [376] Jürgen Dix and Michael Fisher. “Where logic and agents meet”. In: *Annals of Mathematics and Artificial Intelligence* 61.1 (Jan. 2011), pp. 15–28. DOI: 10.1007/s10472-010-9223-9. URL: <https://doi.org/10.1007%2Fs10472-010-9223-9>.
- [377] Quoc Huy Do, Richard Bubel, and Reiner Hähnle. “Automatic detection and demonstrator generation for information flow leaks in object-oriented programs”. In: *Computers & Security* 67 (June 2017), pp. 335–349. DOI: 10.1016/j.cose.2016.12.002. URL: <https://doi.org/10.1016%2Fj.cose.2016.12.002>.
- [378] Quoc Huy Do, Richard Bubel, and Reiner Hähnle. “Exploit Generation for Information Flow Leaks in Object-Oriented Programs”. In: *ICT Systems Security and Privacy Protection*. Springer International Publishing, 2015, pp. 401–415. DOI: 10.1007/978-3-319-18467-8\_27. URL: [https://doi.org/10.1007%2F978-3-319-18467-8\\_27](https://doi.org/10.1007%2F978-3-319-18467-8_27).
- [379] Quoc Huy Do, Eduard Kamburjan, and Nathan Wasser. “Towards Fully Automatic Logic-Based Information Flow Analysis: An Electronic-Voting Case Study”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2016, pp. 97–115. DOI: 10.1007/978-3-662-49635-0\_6. URL: [https://doi.org/10.1007%2F978-3-662-49635-0\\_6](https://doi.org/10.1007%2F978-3-662-49635-0_6).

- [380] Robert Dockins, Andrew W. Appel, and Aquinas Hobor. “Multimodal Separation Logic for Reasoning About Operational Semantics”. In: *Electronic Notes in Theoretical Computer Science* 218 (Oct. 2008), pp. 5–20. DOI: 10.1016/j.entcs.2008.10.002. URL: <https://doi.org/10.1016%2Fj.entcs.2008.10.002>.
- [381] Christian Doczkal and Joachim Bard. “Completeness and decidability of converse PDL in the constructive type theory of Coq”. In: *Proceedings of the 7th ACM SIGPLAN International Conference on Certified Programs and Proofs*. ACM, Jan. 2018. DOI: 10.1145/3167088. URL: <https://doi.org/10.1145%2F3167088>.
- [382] Alastair F. Donaldson et al. “Software Verification Using k-Induction”. In: *Static Analysis*. Springer Berlin Heidelberg, 2011, pp. 351–368. DOI: 10.1007/978-3-642-23702-7\_26. URL: [https://doi.org/10.1007%2F978-3-642-23702-7\\_26](https://doi.org/10.1007%2F978-3-642-23702-7_26).
- [383] Pablo Donato, Pierre-Yves Strub, and Benjamin Werner. “A drag-and-drop proof tactic”. In: *Proceedings of the 11th ACM SIGPLAN International Conference on Certified Programs and Proofs*. ACM, Jan. 2022. DOI: 10.1145/3497775.3503692. URL: <https://doi.org/10.1145%2F3497775.3503692>.
- [384] Huimin Dong, Norbert Gratzl, and Olivier Roy. “Open Reading and Free Choice Permission: A Perspective in Substructural Logics”. In: *Dynamics, Uncertainty and Reasoning*. Springer Singapore, 2019, pp. 81–115. DOI: 10.1007/978-981-13-7791-4\_5. URL: [https://doi.org/10.1007%2F978-981-13-7791-4\\_5](https://doi.org/10.1007%2F978-981-13-7791-4_5).
- [385] Huimin Dong and Olivier Roy. “Dynamic Logic of Legal Competences”. In: *Journal of Logic, Language and Information* 30.4 (Sept. 2021), pp. 701–724. DOI: 10.1007/s10849-021-09340-z. URL: <https://doi.org/10.1007%2Fs10849-021-09340-z>.
- [386] Felix Dörre and Vladimir Klebanov. “Pseudo-Random Number Generator Verification: A Case Study”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2016, pp. 61–72. DOI: 10.1007/978-3-319-29613-5\_4. URL: [https://doi.org/10.1007%2F978-3-319-29613-5\\_4](https://doi.org/10.1007%2F978-3-319-29613-5_4).
- [387] Sylvie Doutre, Andreas Herzig, and Laurent Perrussel. “Abstract Argumentation in Dynamic Logic: Representation, Reasoning and Change”. In: *Dynamics, Uncertainty and Reasoning*. Springer Singapore, 2019, pp. 153–185. DOI: 10.1007/978-981-13-7791-4\_8. URL: [https://doi.org/10.1007%2F978-981-13-7791-4\\_8](https://doi.org/10.1007%2F978-981-13-7791-4_8).
- [388] Sylvie Doutre, Faustine Maffre, and Peter McBurney. “A Dynamic Logic Framework for Abstract Argumentation: Adding and Removing Arguments”. In: *Advances in Artificial Intelligence: From Theory to Practice*. Springer International Publishing, 2017, pp. 295–305. DOI: 10.1007/978-3-319-60045-1\_32. URL: [https://doi.org/10.1007%2F978-3-319-60045-1\\_32](https://doi.org/10.1007%2F978-3-319-60045-1_32).

- [389] Johan Dovland, Einar Broch Johnsen, and Olaf Owe. “Observable Behavior of Dynamic Systems: Component Reasoning for Concurrent Objects”. In: *Electronic Notes in Theoretical Computer Science* 203.3 (May 2008), pp. 19–34. DOI: 10.1016/j.entcs.2008.04.084. URL: <https://doi.org/10.1016%2Fj.entcs.2008.04.084>.
- [390] Johan Dovland et al. “Incremental Reasoning for Multiple Inheritance”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2009, pp. 215–230. DOI: 10.1007/978-3-642-00255-7\_15. URL: [https://doi.org/10.1007%2F978-3-642-00255-7\\_15](https://doi.org/10.1007%2F978-3-642-00255-7_15).
- [391] Johan Dovland et al. “Lazy Behavioral Subtyping”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, pp. 52–67. DOI: 10.1007/978-3-540-68237-0\_6. URL: [https://doi.org/10.1007%2F978-3-540-68237-0\\_6](https://doi.org/10.1007%2F978-3-540-68237-0_6).
- [392] Nagat Drawel et al. “Formal verification of group and propagated trust in multi-agent systems”. In: *Autonomous Agents and Multi-Agent Systems* 36.1 (Mar. 2022). DOI: 10.1007/s10458-021-09542-6. URL: <https://doi.org/10.1007%2Fs10458-021-09542-6>.
- [393] Claire Dross and Johannes Kanig. “Making Proofs of Floating-Point Programs Accessible to Regular Developers”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2022, pp. 7–24. DOI: 10.1007/978-3-030-95561-8\_2. URL: [https://doi.org/10.1007%2F978-3-030-95561-8\\_2](https://doi.org/10.1007%2F978-3-030-95561-8_2).
- [394] Manfred Droste and George Rahonis. “Weighted Linear Dynamic Logic”. In: *Electronic Proceedings in Theoretical Computer Science* 226 (Sept. 2016), pp. 149–163. DOI: 10.4204/eptcs.226.11. URL: <https://doi.org/10.4204%2Feptcs.226.11>.
- [395] Zhenhua Duan et al. “Model Checking MSVL Programs Based on Dynamic Symbolic Execution”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2015, pp. 521–533. DOI: 10.1007/978-3-319-21398-9\_41. URL: [https://doi.org/10.1007%2F978-3-319-21398-9\\_41](https://doi.org/10.1007%2F978-3-319-21398-9_41).
- [396] L. Duboc et al. “Safer marine and offshore software with formal-verification-based guidelines”. In: *11th International Conference on System Safety and Cyber-Security (SSCS 2016)*. Institution of Engineering and Technology, 2016. DOI: 10.1049/cp.2016.0850. URL: <https://doi.org/10.1049%2Fcp.2016.0850>.
- [397] Jean-François Dufourd. “Pointer Program Derivation Using Coq: Graphs and Schorr-Waite Algorithm”. In: *Formal Methods and Software Engineering*. Springer International Publishing, 2014, pp. 139–154. DOI: 10.1007/978-3-319-11737-9\_10. URL: [https://doi.org/10.1007%2F978-3-319-11737-9\\_10](https://doi.org/10.1007%2F978-3-319-11737-9_10).
- [398] Andriy Dunets, Gerhard Schellhorn, and Wolfgang Reif. “Automated Flaw Detection in Algebraic Specifications”. In: *Journal of Automated Reasoning* 45.4 (Jan. 2010), pp. 359–395. DOI: 10.1007/s10817-010-9166-1. URL: <https://doi.org/10.1007%2Fs10817-010-9166-1>.



- [399] Andriy Dunets, Gerhard Schellhorn, and Wolfgang Reif. “Bounded Relational Analysis of Free Data Types”. In: *Tests and Proofs*. Springer Berlin Heidelberg, pp. 99–115. DOI: 10.1007/978-3-540-79124-9\_8. URL: [https://doi.org/10.1007%2F978-3-540-79124-9\\_8](https://doi.org/10.1007%2F978-3-540-79124-9_8).
- [400] Barbara Dunin-Keplicz, Anh Nguyen, and Andrzej Szalas. “A layered rule-based architecture for approximate knowledge fusion?”. In: *Computer Science and Information Systems* 7.3 (2010), pp. 617–642. DOI: 10.2298/csis100209015d. URL: <https://doi.org/10.2298%2Fcsis100209015d>.
- [401] Barbara Dunin-Keplicz, Linh Anh Nguyen, and Andrzej Szalas. “Fusing Approximate Knowledge from Distributed Sources”. In: *Studies in Computational Intelligence*. Springer Berlin Heidelberg, 2009, pp. 75–86. DOI: 10.1007/978-3-642-03214-1\_8. URL: [https://doi.org/10.1007%2F978-3-642-03214-1\\_8](https://doi.org/10.1007%2F978-3-642-03214-1_8).
- [402] Barbara Dunin-Keplicz, Linh Anh Nguyen, and Andrzej Szalas. “Horn-TeamLog: A Horn Fragment of TeamLog with PTime Data Complexity”. In: *Computational Collective Intelligence. Technologies and Applications*. Springer Berlin Heidelberg, 2013, pp. 143–153. DOI: 10.1007/978-3-642-40495-5\_15. URL: [https://doi.org/10.1007%2F978-3-642-40495-5\\_15](https://doi.org/10.1007%2F978-3-642-40495-5_15).
- [403] Barbara Dunin-Keplicz, Alina Strachocka, and Rineke Verbrugge. “Deliberation Dialogues during Multi-agent Planning”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2011, pp. 170–181. DOI: 10.1007/978-3-642-21916-0\_20. URL: [https://doi.org/10.1007%2F978-3-642-21916-0\\_20](https://doi.org/10.1007%2F978-3-642-21916-0_20).
- [404] Barbara Dunin-Keplicz and Andrzej Szalas. “Agents in Approximate Environments”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 141–163. DOI: 10.1007/978-3-642-29326-9\_8. URL: [https://doi.org/10.1007%2F978-3-642-29326-9\\_8](https://doi.org/10.1007%2F978-3-642-29326-9_8).
- [405] Jan van Eijck and Simona Orzan. “Epistemic Verification of Anonymity”. In: *Electronic Notes in Theoretical Computer Science* 168 (Feb. 2007), pp. 159–174. DOI: 10.1016/j.entcs.2006.08.026. URL: <https://doi.org/10.1016%2Fj.entcs.2006.08.026>.
- [406] Jan van Eijck and Floor Sietsma. “Multi-agent Belief Revision with Linked Preferences”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2010, pp. 174–189. DOI: 10.1007/978-3-642-15164-4\_9. URL: [https://doi.org/10.1007%2F978-3-642-15164-4\\_9](https://doi.org/10.1007%2F978-3-642-15164-4_9).
- [407] Jan van Eijck and Martin Stokhof. “The gamut of dynamic logics”. In: *Handbook of the History of Logic*. Elsevier, 2006, pp. 499–600. DOI: 10.1016/S1874-5857(06)80033-6. URL: <https://doi.org/10.1016%2FS1874-5857%2806%2980033-6>.
- [408] Cindy Eisner and Dana Fisman. “Functional Specification of Hardware via Temporal Logic”. In: *Handbook of Model Checking*. Springer International Publishing, 2018, pp. 795–829. DOI: 10.1007/978-3-319-10575-8\_24. URL: [https://doi.org/10.1007%2F978-3-319-10575-8\\_24](https://doi.org/10.1007%2F978-3-319-10575-8_24).

- [409] Cindy Eisner and Dana Fisman. “Structural Contradictions”. In: *Hardware and Software: Verification and Testing*. Springer Berlin Heidelberg, 2009, pp. 164–178. DOI: 10.1007/978-3-642-01702-5\_17. URL: [https://doi.org/10.1007%2F978-3-642-01702-5\\_17](https://doi.org/10.1007%2F978-3-642-01702-5_17).
- [410] Peter van Emde Boas. “The Convenience of Tilings”. In: *complexity, logic, and recursion theory*. CRC Press, May 2019, pp. 331–363. DOI: 10.1201/9780429187490-12. URL: <https://doi.org/10.1201%2F9780429187490-12>.
- [411] Ulle Endriss and Eric Pacuit. “Modal Logics of Negotiation and Preference”. In: *Logics in Artificial Intelligence*. Springer Berlin Heidelberg, 2006, pp. 138–150. DOI: 10.1007/11853886\_13. URL: [https://doi.org/10.1007%2F11853886\\_13](https://doi.org/10.1007%2F11853886_13).
- [412] Christian Engel. “Deductive Verification of Safety-Critical Java Programs”. en. In: (2009). DOI: 10.5445/IR/1000014087. URL: <https://publikationen.bibliothek.kit.edu/1000014087>.
- [413] Christian Engel and Reiner Hähnle. “Generating Unit Tests from Formal Proofs”. In: *Tests and Proofs*. Springer Berlin Heidelberg, pp. 169–188. DOI: 10.1007/978-3-540-73770-4\_10. URL: [https://doi.org/10.1007%2F978-3-540-73770-4\\_10](https://doi.org/10.1007%2F978-3-540-73770-4_10).
- [414] Sebastian Enqvist. “Flat modal fixpoint logics with the converse modality”. In: *Journal of Logic and Computation* 28.6 (June 2018), pp. 1065–1097. DOI: 10.1093/logcom/exy016. URL: <https://doi.org/10.1093%2Flogcom%2Fexy016>.
- [415] Clotilde Erard, Alain Giorgetti, and Jérôme Ricciardi. “Towards random and enumerative testing for OCaml and WhyML properties”. In: *Software Quality Journal* 30.1 (Feb. 2022), pp. 253–279. DOI: 10.1007/s11219-021-09572-z. URL: <https://doi.org/10.1007%2Fs11219-021-09572-z>.
- [416] Madalina Erascu and Tudor Jebelean. “A Calculus for Imperative Programs: Formalization and Implementation”. In: *2009 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*. IEEE, Sept. 2009. DOI: 10.1109/synasc.2009.42. URL: <https://doi.org/10.1109%2Fsynasc.2009.42>.
- [417] Madalina Erascu and Tudor Jebelean. “Soundness of a Logic-Based Verification Method for Imperative Loops”. In: *2012 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*. IEEE, Sept. 2012. DOI: 10.1109/synasc.2012.63. URL: <https://doi.org/10.1109%2Fsynasc.2012.63>.
- [418] Johannes Eriksson, Masoumeh Parsa, and Ralph-Johan Back. “Proofs and Refutations in Invariant-Based Programming”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 189–204. DOI: 10.1007/978-3-319-10181-1\_12. URL: [https://doi.org/10.1007%2F978-3-319-10181-1\\_12](https://doi.org/10.1007%2F978-3-319-10181-1_12).
- [419] Gidon Ernst, Gerhard Schellhorn, and Wolfgang Reif. “Verification of B

- trees by integration of shape analysis and interactive theorem proving”. In: *Software & Systems Modeling* 14.1 (Mar. 2013), pp. 27–44. DOI: 10.1007/s10270-013-0320-1. URL: <https://doi.org/10.1007/2Fs10270-013-0320-1>.
- [420] Gidon Ernst et al. “Modular Refinement for Submachines of ASMs”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2014, pp. 188–203. DOI: 10.1007/978-3-662-43652-3\_16. URL: [https://doi.org/10.1007/2F978-3-662-43652-3\\_16](https://doi.org/10.1007/2F978-3-662-43652-3_16).
- [421] Gidon Ernst et al. “Modular, crash-safe refinement for ASMs with submachines”. In: *Science of Computer Programming* 131 (Dec. 2016), pp. 3–21. DOI: 10.1016/j.scico.2016.04.009. URL: <https://doi.org/10.1016/2Fj.scico.2016.04.009>.
- [422] Gidon Ernst et al. “VerifyThis – Verification Competition with a Human Factor”. In: *Tools and Algorithms for the Construction and Analysis of Systems*. Springer International Publishing, 2019, pp. 176–195. DOI: 10.1007/978-3-030-17502-3\_12. URL: [https://doi.org/10.1007/2F978-3-030-17502-3\\_12](https://doi.org/10.1007/2F978-3-030-17502-3_12).
- [423] Johannes Faber. “Verification Architectures: Compositional Reasoning for Real-Time Systems”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2010, pp. 136–151. DOI: 10.1007/978-3-642-16265-7\_11. URL: [https://doi.org/10.1007/2F978-3-642-16265-7\\_11](https://doi.org/10.1007/2F978-3-642-16265-7_11).
- [424] David Faitelson and Shmuel Tyszberowicz. “Data refinement based testing”. In: *International Journal of System Assurance Engineering and Management* 2.2 (June 2011), pp. 144–154. DOI: 10.1007/s13198-011-0060-y. URL: <https://doi.org/10.1007/2Fs13198-011-0060-y>.
- [425] Tuan-Fang Fan and Churn-Jung Liau. “Possibilistic Reasoning About Actions in Agent Systems”. In: *2018 IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC)*. IEEE, July 2018. DOI: 10.1109/compsac.2018.00120. URL: <https://doi.org/10.1109/2Fcompsac.2018.00120>.
- [426] Liliana Favre. “A Rigorous Framework for Model-Driven Development”. In: *Advances in Database Research*. IGI Global, 2006, pp. 1–27. DOI: 10.4018/978-1-59140-935-9.ch001. URL: <https://doi.org/10.4018/2F978-1-59140-935-9.ch001>.
- [427] Liliana Maria Favre. “Formalization of MOF-Based Metamodels”. In: *Advances in Computer and Electrical Engineering*. IGI Global, 2010, pp. 49–79. DOI: 10.4018/978-1-61520-649-0.ch004. URL: <https://doi.org/10.4018/2F978-1-61520-649-0.ch004>.
- [428] Lifia Yola Febrianti et al. “DEVELOPMENT OF HEUTADIGITAL LEARNING MODEL IN INDONESIAN WEB-BASED LEARNING”. In: *7th International Conference on Sustainable Information Engineering and Technology 2022*. ACM, Nov. 2022. DOI: 10.1145/3568231.3568270. URL: <https://doi.org/10.1145/2F3568231.3568270>.

- [429] Ingo Feinerer and Gernot Salzer. “A comparison of tools for teaching formal software verification”. In: *Formal Aspects of Computing* 21.3 (May 2009), pp. 293–301. DOI: 10.1007/s00165-008-0084-5. URL: <https://doi.org/10.1007%2Fs00165-008-0084-5>.
- [430] Ingo Feinerer and Gernot Salzer. “Automated Tools for Teaching Formal Software Verification”. In: *Electronic Workshops in Computing*. BCS Learning & Development, Dec. 2006. DOI: 10.14236/ewic/tfm2006.4. URL: <https://doi.org/10.14236%2Fewic%2Ftfm2006.4>.
- [431] Ingo Felscher. “The Compositional Method and Regular Reachability”. In: *Electronic Notes in Theoretical Computer Science* 223 (Dec. 2008), pp. 103–117. DOI: 10.1016/j.entcs.2008.12.034. URL: <https://doi.org/10.1016%2Fj.entcs.2008.12.034>.
- [432] INGO FELSCHER and WOLFGANG THOMAS. “COMPOSITIONALITY AND REACHABILITY WITH CONDITIONS ON PATH LENGTHS”. In: *International Journal of Foundations of Computer Science* 20.05 (Oct. 2009), pp. 851–868. DOI: 10.1142/s0129054109006929. URL: <https://doi.org/10.1142%2Fs0129054109006929>.
- [433] T.M. Ferguson. “A computational interpretation of conceptivism”. In: *Journal of Applied Non-Classical Logics* 24.4 (Oct. 2014), pp. 333–367. DOI: 10.1080/11663081.2014.980116. URL: <https://doi.org/10.1080%2F11663081.2014.980116>.
- [434] TIM FERNANDO. “Regular relations for temporal propositions”. In: *Natural Language Engineering* 17.2 (Mar. 2011), pp. 163–184. DOI: 10.1017/s135132491100009x. URL: <https://doi.org/10.1017%2Fs135132491100009x>.
- [435] Tim Fernando. “Temporal Representations with and without Points”. In: *Studies in Computational Intelligence*. Springer International Publishing, Oct. 2019, pp. 45–66. DOI: 10.1007/978-3-030-30077-7\_3. URL: [https://doi.org/10.1007%2F978-3-030-30077-7\\_3](https://doi.org/10.1007%2F978-3-030-30077-7_3).
- [436] Angelo Ferrando. “The early bird catches the worm: First verify, then monitor!” In: *Science of Computer Programming* 172 (Mar. 2019), pp. 160–179. DOI: 10.1016/j.scico.2018.11.008. URL: <https://doi.org/10.1016%2Fj.scico.2018.11.008>.
- [437] Raul Fervari. “The Impact of Including Model Update Operators in Modal Logics”. In: *Pristine Perspectives on Logic, Language, and Computation*. Springer Berlin Heidelberg, 2014, pp. 91–108. DOI: 10.1007/978-3-662-44116-9\_7. URL: [https://doi.org/10.1007%2F978-3-662-44116-9\\_7](https://doi.org/10.1007%2F978-3-662-44116-9_7).
- [438] Guillaume Feuillade and Andreas Herzig. “A Dynamic View of Active Integrity Constraints”. In: *Logics in Artificial Intelligence*. Springer International Publishing, 2014, pp. 486–499. DOI: 10.1007/978-3-319-11558-0\_34. URL: [https://doi.org/10.1007%2F978-3-319-11558-0\\_34](https://doi.org/10.1007%2F978-3-319-11558-0_34).
- [439] Guillaume Feuillade, Andreas Herzig, and Christos Rantsoudis. “A Dynamic Logic Account of Active Integrity Constraints”. In: *Fundamenta Informaticae* 169.3 (Oct. 2019), pp. 179–210. DOI: 10.3233/fi-2019-1843. URL: <https://doi.org/10.3233%2Ffi-2019-1843>.

- [440] Diego Figueira, Santiago Figueira, and Edwin Pin. “PDL on Steroids: on Expressive Extensions of PDL with Intersection and Converse”. In: *2023 38th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS)*. IEEE, June 2023. DOI: 10.1109/lics56636.2023.10175813. URL: <https://doi.org/10.1109%2Flics56636.2023.10175813>.
- [441] Jean-Christophe Filliâtre. “Deductive software verification”. In: *International Journal on Software Tools for Technology Transfer* 13.5 (Aug. 2011), pp. 397–403. DOI: 10.1007/s10009-011-0211-0. URL: <https://doi.org/10.1007%2Fs10009-011-0211-0>.
- [442] Jean-Christophe Filliâtre and Andrei Paskevich. “Abstraction and Generativity in Why3”. In: *Leveraging Applications of Formal Methods, Verification and Validation: Verification Principles*. Springer International Publishing, 2020, pp. 122–142. DOI: 10.1007/978-3-030-61362-4\_7. URL: [https://doi.org/10.1007%2F978-3-030-61362-4\\_7](https://doi.org/10.1007%2F978-3-030-61362-4_7).
- [443] Denis Firsov and Aaron Stump. “Generic derivation of induction for impredicative encodings in Cedille”. In: *Proceedings of the 7th ACM SIGPLAN International Conference on Certified Programs and Proofs*. ACM, Jan. 2018. DOI: 10.1145/3167087. URL: <https://doi.org/10.1145%2F3167087>.
- [444] Andrew Gavin Fish, Ali Hamie, and John Howse. “Visual Specification Patterns”. en. In: *Electronic Communications of the EASST* (2011), Volume 31: Visual Formalisms for Patterns 2010. DOI: 10.14279/TUJ.ECEASST.31.575. URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/575>.
- [445] Michael Fisher et al. “COMPUTATIONAL LOGICS AND AGENTS: A ROAD MAP OF CURRENT TECHNOLOGIES AND FUTURE TRENDS”. In: *Computational Intelligence* 23.1 (Feb. 2007), pp. 61–91. DOI: 10.1111/j.1467-8640.2007.00295.x. URL: <https://doi.org/10.1111%2Fj.1467-8640.2007.00295.x>.
- [446] Melvin Fitting. “Reasoning About Games”. In: *Studia Logica* 99.1-3 (Aug. 2011), pp. 143–169. DOI: 10.1007/s11225-011-9358-7. URL: <https://doi.org/10.1007%2Fs11225-011-9358-7>.
- [447] John Fitzgerald, Jeremy Bryans, and Richard Payne. “A Formal Model-Based Approach to Engineering Systems-of-Systems”. In: *IFIP Advances in Information and Communication Technology*. Springer Berlin Heidelberg, 2012, pp. 53–62. DOI: 10.1007/978-3-642-32775-9\_6. URL: [https://doi.org/10.1007%2F978-3-642-32775-9\\_6](https://doi.org/10.1007%2F978-3-642-32775-9_6).
- [448] G. H. L. Fletcher et al. “Similarity and bisimilarity notions appropriate for characterizing indistinguishability in fragments of the calculus of relations”. In: *Journal of Logic and Computation* 25.3 (Mar. 2014), pp. 549–580. DOI: 10.1093/logcom/exu018. URL: <https://doi.org/10.1093%2Flogcom%2Fexu018>.
- [449] George H. L. Fletcher et al. “Relative expressive power of navigational querying on graphs”. In: *Proceedings of the 14th International Conference on Database Theory*. ACM, Mar. 2011. DOI: 10.1145/1938551.1938578. URL: <https://doi.org/10.1145%2F1938551.1938578>.

- [450] George H. L. Fletcher et al. “The Impact of Transitive Closure on the Boolean Expressiveness of Navigational Query Languages on Graphs”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 124–143. DOI: 10.1007/978-3-642-28472-4\_8. URL: [https://doi.org/10.1007%2F978-3-642-28472-4\\_8](https://doi.org/10.1007%2F978-3-642-28472-4_8).
- [451] George H. L. Fletcher et al. “The impact of transitive closure on the expressiveness of navigational query languages on unlabeled graphs”. In: *Annals of Mathematics and Artificial Intelligence* 73.1-2 (Apr. 2013), pp. 167–203. DOI: 10.1007/s10472-013-9346-x. URL: <https://doi.org/10.1007%2Fs10472-013-9346-x>.
- [452] Chris Fox. “Obligations and Permissions”. In: *Language and Linguistics Compass* 6.9 (Sept. 2012), pp. 593–610. DOI: 10.1002/lnc3.352. URL: <https://doi.org/10.1002%2Flnc3.352>.
- [453] Maria João Frade and Jorge Sousa Pinto. “A verified VCGen based on dynamic logic: An exercise in meta-verification with Why3”. In: *Journal of Logical and Algebraic Methods in Programming* 133 (June 2023), p. 100871. DOI: 10.1016/j.jlamp.2023.100871. URL: <https://doi.org/10.1016%2Fj.jlamp.2023.100871>.
- [454] Maria João Frade and Jorge Sousa Pinto. “Verification conditions for source-level imperative programs”. In: *Computer Science Review* 5.3 (Aug. 2011), pp. 252–277. DOI: 10.1016/j.cosrev.2011.02.002. URL: <https://doi.org/10.1016%2Fj.cosrev.2011.02.002>.
- [455] Sabine Frittella et al. “A proof-theoretic semantic analysis of dynamic epistemic logic”. In: *Journal of Logic and Computation* 26.6 (Nov. 2014), pp. 1961–2015. DOI: 10.1093/logcom/exu063. URL: <https://doi.org/10.1093%2Flogcom%2Fexu063>.
- [456] Chunlei Fu et al. “An approach to translating OCL invariants into OWL 2 DL axioms for checking inconsistency”. In: *Automated Software Engineering* 24.2 (Feb. 2017), pp. 295–339. DOI: 10.1007/s10515-017-0210-9. URL: <https://doi.org/10.1007%2Fs10515-017-0210-9>.
- [457] Nathan Fulton et al. “KeYmaera X: An Axiomatic Tactical Theorem Prover for Hybrid Systems”. In: *Automated Deduction - CADE-25*. Springer International Publishing, 2015, pp. 527–538. DOI: 10.1007/978-3-319-21401-6\_36. URL: [https://doi.org/10.1007%2F978-3-319-21401-6\\_36](https://doi.org/10.1007%2F978-3-319-21401-6_36).
- [458] Carlo A. Furia et al. “AutoProof: auto-active functional verification of object-oriented programs”. In: *International Journal on Software Tools for Technology Transfer* 19.6 (Apr. 2016), pp. 697–716. DOI: 10.1007/s10009-016-0419-0. URL: <https://doi.org/10.1007%2Fs10009-016-0419-0>.
- [459] Jaymon Furniss. *Proving False in Object-Oriented Verification Programs by Exploiting Non-Termination*. 2022. DOI: 10.48550/ARXIV.2212.02605. URL: <https://arxiv.org/abs/2212.02605>.
- [460] Hitoshi Furusawa and Georg Struth. “Concurrent Dynamic Algebra”. In: *ACM Transactions on Computational Logic* 16.4 (Aug. 2015), pp. 1–38. DOI: 10.1145/2785967. URL: <https://doi.org/10.1145%2F2785967>.

- [461] Gregor Gabrysiak et al. “Consistent stakeholder modifications of formal models via a natural language representation”. In: *2013 1st International Workshop on Natural Language Analysis in Software Engineering (NaturaLiSE)*. IEEE, May 2013. DOI: 10.1109/naturalise.2013.6611714. URL: <https://doi.org/10.1109%2Fnaturalise.2013.6611714>.
- [462] Rustam Galimullin. “Coalition and Relativised Group Announcement Logic”. In: *Journal of Logic, Language and Information* 30.3 (Jan. 2021), pp. 451–489. DOI: 10.1007/s10849-020-09327-2. URL: <https://doi.org/10.1007%2Fs10849-020-09327-2>.
- [463] Antony Galton. “Outline of a Formal Theory of Processes and Events, and Why GIScience Needs One”. In: *Spatial Information Theory*. Springer International Publishing, 2015, pp. 3–22. DOI: 10.1007/978-3-319-23374-1\_1. URL: [https://doi.org/10.1007%2F978-3-319-23374-1\\_1](https://doi.org/10.1007%2F978-3-319-23374-1_1).
- [464] Artur S. d’Avila Garcez, Luis C. Lamb, and Dov M. Gabbay. “Connectionist modal logic: Representing modalities in neural networks”. In: *Theoretical Computer Science* 371.1-2 (Feb. 2007), pp. 34–53. DOI: 10.1016/j.tcs.2006.10.023. URL: <https://doi.org/10.1016%2Fj.tcs.2006.10.023>.
- [465] Remi Garcia and Paolo Modesti. “An IDE for the Design, Verification and Implementation of Security Protocols”. In: *2017 IEEE International Symposium on Software Reliability Engineering Workshops (ISSREW)*. IEEE, Oct. 2017. DOI: 10.1109/issrew.2017.69. URL: <https://doi.org/10.1109%2Fissrew.2017.69>.
- [466] William B. Gardner, Alicia Gumtie, and John D. Carter. “Supporting Selective Formalism in CSP with Process-Specific Storage”. In: *2015 IEEE 17th International Conference on High Performance Computing and Communications, 2015 IEEE 7th International Symposium on Cyberspace Safety and Security, and 2015 IEEE 12th International Conference on Embedded Software and Systems*. IEEE, Aug. 2015. DOI: 10.1109/hpcc-css-icess.2015.265. URL: <https://doi.org/10.1109%2Fhpcc-css-icess.2015.265>.
- [467] Olivier Gasquet, Valentin Goranko, and François Schwarzentruher. “Big Brother Logic: visual-epistemic reasoning in stationary multi-agent systems”. In: *Autonomous Agents and Multi-Agent Systems* 30.5 (July 2015), pp. 793–825. DOI: 10.1007/s10458-015-9306-4. URL: <https://doi.org/10.1007%2Fs10458-015-9306-4>.
- [468] Holger Gast. “Reasoning about memory layouts”. In: *Formal Methods in System Design* 37.2-3 (Sept. 2010), pp. 141–170. DOI: 10.1007/s10703-010-0098-5. URL: <https://doi.org/10.1007%2Fs10703-010-0098-5>.
- [469] Benoit Gaudou et al. “How to Do Social Simulation in Logic: Modelling the Segregation Game in a Dynamic Logic of Assignments”. In: *Multi-Agent-Based Simulation XII*. Springer Berlin Heidelberg, 2012, pp. 59–73. DOI: 10.1007/978-3-642-28400-7\_5. URL: [https://doi.org/10.1007%2F978-3-642-28400-7\\_5](https://doi.org/10.1007%2F978-3-642-28400-7_5).

- [470] Tobias Gedell. “Embedding Static Analysis into Tableaux and Sequent Based Frameworks”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2005, pp. 108–122. DOI: 10.1007/11554554\_10. URL: [https://doi.org/10.1007%2F11554554\\_10](https://doi.org/10.1007%2F11554554_10).
- [471] Tobias Gedell and Reiner Hähnle. “Automating Verification of Loops by Parallelization”. In: *Logic for Programming, Artificial Intelligence, and Reasoning*. Springer Berlin Heidelberg, 2006, pp. 332–346. DOI: 10.1007/11916277\_23. URL: [https://doi.org/10.1007%2F11916277\\_23](https://doi.org/10.1007%2F11916277_23).
- [472] Tobias Gedell and Reiner Hähnle. “Verification by Parallelization of Parametric Code”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2007, pp. 138–159. DOI: 10.1007/978-3-540-75939-3\_10. URL: [https://doi.org/10.1007%2F978-3-540-75939-3\\_10](https://doi.org/10.1007%2F978-3-540-75939-3_10).
- [473] Rosella Gennari. “Mathematical Logic: Foundations for Information Science by Wei Li, Birkhäuser, Berlin, 2010. Hardcover, ISBN-978-3-7643-9976-4.” In: *Theory and Practice of Logic Programming* 11.6 (Oct. 2011), pp. 989–992. DOI: 10.1017/s147106841100055x. URL: <https://doi.org/10.1017%2Fs147106841100055x>.
- [474] Geri Georg et al. “An aspect-oriented methodology for designing secure applications”. In: *Information and Software Technology* 51.5 (May 2009), pp. 846–864. DOI: 10.1016/j.infsof.2008.05.004. URL: <https://doi.org/10.1016%2Fj.infsof.2008.05.004>.
- [475] Ali Gharaei et al. “Systems Engineering Approach to Identify Requirements for Digital Twins Development”. In: *IFIP Advances in Information and Communication Technology*. Springer International Publishing, 2020, pp. 82–90. DOI: 10.1007/978-3-030-57993-7\_10. URL: [https://doi.org/10.1007%2F978-3-030-57993-7\\_10](https://doi.org/10.1007%2F978-3-030-57993-7_10).
- [476] Aboubakr Achraf El Ghazi et al. “JKelloy: A Proof Assistant for Relational Specifications of Java Programs”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 173–187. DOI: 10.1007/978-3-319-06200-6\_13. URL: [https://doi.org/10.1007%2F978-3-319-06200-6\\_13](https://doi.org/10.1007%2F978-3-319-06200-6_13).
- [477] Cristian Gherghina and Cristina David. “A Specification Logic for Exceptions and Beyond”. In: *Automated Technology for Verification and Analysis*. Springer Berlin Heidelberg, 2010, pp. 173–187. DOI: 10.1007/978-3-642-15643-4\_14. URL: [https://doi.org/10.1007%2F978-3-642-15643-4\\_14](https://doi.org/10.1007%2F978-3-642-15643-4_14).
- [478] Silvio Ghilardi, Maria João Gouveia, and Luigi Santocanale. “Fixed-point Elimination in the Intuitionistic Propositional Calculus”. In: *ACM Transactions on Computational Logic* 21.1 (Sept. 2019), pp. 1–37. DOI: 10.1145/3359669. URL: <https://doi.org/10.1145%2F3359669>.
- [479] Sujata Ghosh, R. Ramanujam, and Sunil Simon. “Playing Extensive Form Games in Parallel”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2010, pp. 153–170. DOI: 10.1007/978-3-642-14977-1\_13. URL: [https://doi.org/10.1007%2F978-3-642-14977-1\\_13](https://doi.org/10.1007%2F978-3-642-14977-1_13).



- [480] Elena Giachino et al. “Statically and Dynamically Verifiable SLA Metrics”. In: *Theory and Practice of Formal Methods*. Springer International Publishing, 2016, pp. 211–225. DOI: 10.1007/978-3-319-30734-3\_15. URL: [https://doi.org/10.1007%2F978-3-319-30734-3\\_15](https://doi.org/10.1007%2F978-3-319-30734-3_15).
- [481] Giuseppe De Giacomo and Marco Favorito. “Compositional Approach to Translate LTLf/LDLf into Deterministic Finite Automata”. In: *Proceedings of the International Conference on Automated Planning and Scheduling* 31 (May 2021), pp. 122–130. DOI: 10.1609/icaps.v31i1.15954. URL: <https://doi.org/10.1609%2Ficaps.v31i1.15954>.
- [482] Giuseppe De Giacomo, Yves Lespérance, and Eugenia Ternovska. “El-Golog: A High-Level Programming Language with Memory of the Execution History”. In: *Proceedings of the AAAI Conference on Artificial Intelligence* 34.03 (Apr. 2020), pp. 2806–2813. DOI: 10.1609/aaai.v34i03.5669. URL: <https://doi.org/10.1609%2Faaai.v34i03.5669>.
- [483] Giuseppe De Giacomo et al. “AutomaticWorkflows Composition of Mobile Services”. In: *IEEE International Conference on Web Services (ICWS 2007)*. IEEE, July 2007. DOI: 10.1109/icws.2007.55. URL: <https://doi.org/10.1109%2Ficws.2007.55>.
- [484] Giuseppe De Giacomo et al. “Monitoring Business Metaconstraints Based on LTL and LDL for Finite Traces”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 1–17. DOI: 10.1007/978-3-319-10172-9\_1. URL: [https://doi.org/10.1007%2F978-3-319-10172-9\\_1](https://doi.org/10.1007%2F978-3-319-10172-9_1).
- [485] Giuseppe De Giacomo et al. “Monitoring Constraints and Metaconstraints with Temporal Logics on Finite Traces”. In: *ACM Transactions on Software Engineering and Methodology* 31.4 (July 2022), pp. 1–44. DOI: 10.1145/3506799. URL: <https://doi.org/10.1145%2F3506799>.
- [486] Martin Giese and Rogardt Heldal. “From Informal to Formal Specifications in UML”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2004, pp. 197–211. DOI: 10.1007/978-3-540-30187-5\_15. URL: [https://doi.org/10.1007%2F978-3-540-30187-5\\_15](https://doi.org/10.1007%2F978-3-540-30187-5_15).
- [487] Martin Giese and Daniel Larsson. “Simplifying Transformations of OCL Constraints”. In: *Model Driven Engineering Languages and Systems*. Springer Berlin Heidelberg, 2005, pp. 309–323. DOI: 10.1007/11557432\_23. URL: [https://doi.org/10.1007%2F11557432\\_23](https://doi.org/10.1007%2F11557432_23).
- [488] Jürgen Giesl et al. “Improving Automatic Complexity Analysis of Integer Programs”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 193–228. DOI: 10.1007/978-3-031-08166-8\_10. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_10](https://doi.org/10.1007%2F978-3-031-08166-8_10).
- [489] Xavier Gillard, Pierre Schaus, and Yves Deville. “SolverCheck: Declarative Testing of Constraints”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 565–582. DOI: 10.1007/978-3-030-30048-7\_33. URL: [https://doi.org/10.1007%2F978-3-030-30048-7\\_33](https://doi.org/10.1007%2F978-3-030-30048-7_33).

- [490] Laura Giordano, Alberto Martelli, and Daniele Theseider Dupré. “Temporal deontic action logic for the verification of compliance to norms in ASP”. In: *Proceedings of the Fourteenth International Conference on Artificial Intelligence and Law*. ACM, June 2013. DOI: 10.1145/2514601.2514608. URL: <https://doi.org/10.1145/2514601.2514608>.
- [491] LAURA GIORDANO et al. “Business process verification with constraint temporal answer set programming”. In: *Theory and Practice of Logic Programming* 13.4-5 (July 2013), pp. 641–655. DOI: 10.1017/s1471068413000409. URL: <https://doi.org/10.1017/2Fs1471068413000409>.
- [492] Mathieu Giorgino and Martin Strecker. “Correctness of Pointer Manipulating Algorithms Illustrated by a Verified BDD Construction”. In: *FM 2012: Formal Methods*. Springer Berlin Heidelberg, 2012, pp. 202–216. DOI: 10.1007/978-3-642-32759-9\_18. URL: [https://doi.org/10.1007/2F978-3-642-32759-9\\_18](https://doi.org/10.1007/2F978-3-642-32759-9_18).
- [493] Mathieu Giorgino et al. “Verification of the Schorr-Waite Algorithm – From Trees to Graphs”. In: *Logic-Based Program Synthesis and Transformation*. Springer Berlin Heidelberg, 2011, pp. 67–83. DOI: 10.1007/978-3-642-20551-4\_5. URL: [https://doi.org/10.1007/2F978-3-642-20551-4\\_5](https://doi.org/10.1007/2F978-3-642-20551-4_5).
- [494] Christoph Gladisch. “Could We Have Chosen a Better Loop Invariant or Method Contract?”. In: *Tests and Proofs*. Springer Berlin Heidelberg, 2009, pp. 74–89. DOI: 10.1007/978-3-642-02949-3\_7. URL: [https://doi.org/10.1007/2F978-3-642-02949-3\\_7](https://doi.org/10.1007/2F978-3-642-02949-3_7).
- [495] Christoph Gladisch. “Verification-Based Test Case Generation for Full Feasible Branch Coverage”. In: *2008 Sixth IEEE International Conference on Software Engineering and Formal Methods*. IEEE, 2008. DOI: 10.1109/sefm.2008.22. URL: <https://doi.org/10.1109/2Fsefm.2008.22>.
- [496] Christoph Gladisch and Shmuel Tyszberowicz. “Specifying linked data structures in JML for combining formal verification and testing”. In: *Science of Computer Programming* 107-108 (Sept. 2015), pp. 19–40. DOI: 10.1016/j.scico.2015.02.005. URL: <https://doi.org/10.1016/2Fj.scico.2015.02.005>.
- [497] Christoph Gladisch et al. “Generating Regression Unit Tests Using a Combination of Verification and Capture & Replay”. In: *Tests and Proofs*. Springer Berlin Heidelberg, 2010, pp. 61–76. DOI: 10.1007/978-3-642-13977-2\_7. URL: [https://doi.org/10.1007/2F978-3-642-13977-2\\_7](https://doi.org/10.1007/2F978-3-642-13977-2_7).
- [498] Christoph D. Gladisch. “Model generation for quantified formulas with application to test data generation”. In: *International Journal on Software Tools for Technology Transfer* 14.4 (Mar. 2012), pp. 439–459. DOI: 10.1007/s10009-012-0227-0. URL: <https://doi.org/10.1007/2Fs10009-012-0227-0>.

- [499] Christoph D. Gladisch. “Satisfiability Solving and Model Generation for Quantified First-Order Logic Formulas”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2011, pp. 76–91. DOI: 10.1007/978-3-642-18070-5\_6. URL: [https://doi.org/10.1007%2F978-3-642-18070-5\\_6](https://doi.org/10.1007%2F978-3-642-18070-5_6).
- [500] Mario Gleirscher, Jaco van de Pol, and Jim Woodcock. “A manifesto for applicable formal methods”. In: *Software and Systems Modeling* (Aug. 2023). DOI: 10.1007/s10270-023-01124-2. URL: <https://doi.org/10.1007%2Fs10270-023-01124-2>.
- [501] Bernhard Gleiss, Laura Kovács, and Jakob Rath. “Subsumption Demodulation in First-Order Theorem Proving”. In: *Automated Reasoning*. Springer International Publishing, 2020, pp. 297–315. DOI: 10.1007/978-3-030-51074-9\_17. URL: [https://doi.org/10.1007%2F978-3-030-51074-9\\_17](https://doi.org/10.1007%2F978-3-030-51074-9_17).
- [502] Martin Gogolla, Lars Hamann, and Mirco Kuhlmann. “Proving and Visualizing OCL Invariant Independence by Automatically Generated Test Cases”. In: *Tests and Proofs*. Springer Berlin Heidelberg, 2010, pp. 38–54. DOI: 10.1007/978-3-642-13977-2\_5. URL: [https://doi.org/10.1007%2F978-3-642-13977-2\\_5](https://doi.org/10.1007%2F978-3-642-13977-2_5).
- [503] Martin Gogolla, Mirco Kuhlmann, and Lars Hamann. “Consistency, Independence and Consequences in UML and OCL Models”. In: *Tests and Proofs*. Springer Berlin Heidelberg, 2009, pp. 90–104. DOI: 10.1007/978-3-642-02949-3\_8. URL: [https://doi.org/10.1007%2F978-3-642-02949-3\\_8](https://doi.org/10.1007%2F978-3-642-02949-3_8).
- [504] Robert Goldblatt. “Equivalent Beliefs in Dynamic Doxastic Logic”. In: *Outstanding Contributions to Logic*. Springer Netherlands, Oct. 2013, pp. 179–207. DOI: 10.1007/978-94-007-7046-1\_9. URL: [https://doi.org/10.1007%2F978-94-007-7046-1\\_9](https://doi.org/10.1007%2F978-94-007-7046-1_9).
- [505] Robert Goldblatt and Tomasz Kowalski. “The Power of a Propositional Constant”. In: *Journal of Philosophical Logic* 43.1 (Dec. 2012), pp. 133–152. DOI: 10.1007/s10992-012-9256-0. URL: <https://doi.org/10.1007%2Fs10992-012-9256-0>.
- [506] Stefan Göller and Markus Lohrey. “Infinite State Model-Checking of Propositional Dynamic Logics”. In: *Computer Science Logic*. Springer Berlin Heidelberg, 2006, pp. 349–364. DOI: 10.1007/11874683\_23. URL: [https://doi.org/10.1007%2F11874683\\_23](https://doi.org/10.1007%2F11874683_23).
- [507] Stefan Göller, Markus Lohrey, and Carsten Lutz. “PDL with Intersection and Converse Is 2EXP-Complete”. In: *Foundations of Software Science and Computational Structures*. Springer Berlin Heidelberg, pp. 198–212. DOI: 10.1007/978-3-540-71389-0\_15. URL: [https://doi.org/10.1007%2F978-3-540-71389-0\\_15](https://doi.org/10.1007%2F978-3-540-71389-0_15).
- [508] Leandro Gomes, Alexandre Madeira, and Luis Soares Barbosa. “A semantics and a logic for Fuzzy Arden Syntax”. In: *Soft Computing* 25.9 (Feb. 2021), pp. 6789–6805. DOI: 10.1007/s00500-021-05593-9. URL: <https://doi.org/10.1007%2Fs00500-021-05593-9>.

- [509] Carlos A. González and Jordi Cabot. “Formal verification of static software models in MDE: A systematic review”. In: *Information and Software Technology* 56.8 (Aug. 2014), pp. 821–838. DOI: 10.1016/j.infsof.2014.03.003. URL: <https://doi.org/10.1016%2Fj.infsof.2014.03.003>.
- [510] Kiran Gopinathan, Mayank Keoliya, and Ilya Sergey. “Mostly Automated Proof Repair for Verified Libraries”. In: *Proceedings of the ACM on Programming Languages* 7.PLDI (June 2023), pp. 25–49. DOI: 10.1145/3591221. URL: <https://doi.org/10.1145%2F3591221>.
- [511] Colin S. Gordon. “Modal assertions for actor correctness”. In: *Proceedings of the 9th ACM SIGPLAN International Workshop on Programming Based on Actors, Agents, and Decentralized Control*. ACM, Oct. 2019. DOI: 10.1145/3358499.3361221. URL: <https://doi.org/10.1145%2F3358499.3361221>.
- [512] Rajeev Goré and Linh Anh Nguyen. “A Tableau Calculus with Automaton-Labelled Formulae for Regular Grammar Logics”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2005, pp. 138–152. DOI: 10.1007/11554554\_12. URL: [https://doi.org/10.1007%2F11554554\\_12](https://doi.org/10.1007%2F11554554_12).
- [513] Rajeev Goré and Linh Anh Nguyen. “Analytic Cut-Free Tableaux for Regular Modal Logics of Agent Beliefs”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2008, pp. 268–287. DOI: 10.1007/978-3-540-88833-8\_15. URL: [https://doi.org/10.1007%2F978-3-540-88833-8\\_15](https://doi.org/10.1007%2F978-3-540-88833-8_15).
- [514] E. Goris. “Looping Caterpillars”. In: *20th Annual IEEE Symposium on Logic in Computer Science (LICS’ 05)*. IEEE, 2005. DOI: 10.1109/lics.2005.24. URL: <https://doi.org/10.1109%2Flics.2005.24>.
- [515] Marion Gottschalk and Mathias Uslar. “Supporting the Development of Smart Cities using a Use Case Methodology”. In: *Proceedings of the 24th International Conference on World Wide Web*. ACM, May 2015. DOI: 10.1145/2740908.2743907. URL: <https://doi.org/10.1145%2F2740908.2743907>.
- [516] Stijn de Gouw et al. “Integrating deductive verification and symbolic execution for abstract object creation in dynamic logic”. In: *Software & Systems Modeling* 15.4 (Dec. 2014), pp. 1117–1140. DOI: 10.1007/s10270-014-0446-9. URL: <https://doi.org/10.1007%2Fs10270-014-0446-9>.
- [517] Stijn de Gouw et al. “OpenJDK’s Java.utils.Collection.sort() Is Broken: The Good, the Bad and the Worst Case”. In: *Computer Aided Verification*. Springer International Publishing, 2015, pp. 273–289. DOI: 10.1007/978-3-319-21690-4\_16. URL: [https://doi.org/10.1007%2F978-3-319-21690-4\\_16](https://doi.org/10.1007%2F978-3-319-21690-4_16).
- [518] Stijn de Gouw et al. “Verifying OpenJDK’s Sort Method for Generic Collections”. In: *Journal of Automated Reasoning* 62.1 (Aug. 2017), pp. 93–126. DOI: 10.1007/s10817-017-9426-4. URL: <https://doi.org/10.1007%2Fs10817-017-9426-4>.

- [519] Stijn de Gouw et al. “Weak Arithmetic Completeness of Object-Oriented First-Order Assertion Networks”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2013, pp. 207–219. DOI: 10.1007/978-3-642-35843-2\_19. URL: [https://doi.org/10.1007%2F978-3-642-35843-2\\_19](https://doi.org/10.1007%2F978-3-642-35843-2_19).
- [520] Jürgen Graf. “Information Flow Control with System Dependence Graphs - Improving Modularity, Scalability and Precision for Object Oriented Languages”. en. In: (2016). DOI: 10.5445/IR/1000068211. URL: <https://publikationen.bibliothek.kit.edu/1000068211>.
- [521] H. Grandy, K. Stenzel, and W. Reif. “Object oriented verification kernels for secure Java applications”. In: *Third IEEE International Conference on Software Engineering and Formal Methods (SEFM’05)*. IEEE, 2005. DOI: 10.1109/sefm.2005.28. URL: <https://doi.org/10.1109%2Fsefm.2005.28>.
- [522] Holger Grandy et al. “Verification of Mondex Electronic Purses with KIV: From a Security Protocol to Verified Code”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, pp. 165–180. DOI: 10.1007/978-3-540-68237-0\_13. URL: [https://doi.org/10.1007%2F978-3-540-68237-0\\_13](https://doi.org/10.1007%2F978-3-540-68237-0_13).
- [523] John Grant et al. “Manipulating Games by Sharing Information”. In: *Studia Logica* 102.2 (Feb. 2014), pp. 267–295. DOI: 10.1007/s11225-014-9544-5. URL: <https://doi.org/10.1007%2Fs11225-014-9544-5>.
- [524] Sarah Grebing, Jonas Klamroth, and Mattias Ulbrich. “Seamless Interactive Program Verification”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 68–86. DOI: 10.1007/978-3-030-41600-3\_6. URL: [https://doi.org/10.1007%2F978-3-030-41600-3\\_6](https://doi.org/10.1007%2F978-3-030-41600-3_6).
- [525] Giuseppe Greco and Alessandra Palmigiano. “Linear Logic Properly Displayed”. In: *ACM Transactions on Computational Logic* 24.2 (Jan. 2023), pp. 1–56. DOI: 10.1145/3570919. URL: <https://doi.org/10.1145%2F3570919>.
- [526] Simon Greiner. “A Framework for Non-Interference in Component-Based Systems”. en. In: (2018). DOI: 10.5445/IR/1000082042. URL: <https://publikationen.bibliothek.kit.edu/1000082042>.
- [527] Simon Greiner, Martin Mohr, and Bernhard Beckert. “Modular Verification of Information Flow Security in Component-Based Systems”. In: *Software Engineering and Formal Methods*. Springer International Publishing, 2017, pp. 300–315. DOI: 10.1007/978-3-319-66197-1\_19. URL: [https://doi.org/10.1007%2F978-3-319-66197-1\\_19](https://doi.org/10.1007%2F978-3-319-66197-1_19).
- [528] Simon Greiner, Peter Munk, and Arne Nordmann. “Compositionality of Component Fault Trees”. In: *Model-Based Safety and Assessment*. Springer International Publishing, 2019, pp. 125–140. DOI: 10.1007/978-3-030-32872-6\_9. URL: [https://doi.org/10.1007%2F978-3-030-32872-6\\_9](https://doi.org/10.1007%2F978-3-030-32872-6_9).

- [529] Erick Grilo and Bruno Lopes. “ReLo: a Dynamic Logic to Reason About Reo Circuits”. In: *Electronic Proceedings in Theoretical Computer Science* 376 (Mar. 2023), pp. 16–33. DOI: 10.4204/eptcs.376.4. URL: <https://doi.org/10.4204%2Feptcs.376.4>.
- [530] Davide Grossi, Frank Dignum, and John-Jules Ch. Meyer. “A formal road from institutional norms to organizational structures”. In: *Proceedings of the 6th international joint conference on Autonomous agents and multiagent systems*. ACM, May 2007. DOI: 10.1145/1329125.1329234. URL: <https://doi.org/10.1145%2F1329125.1329234>.
- [531] Davide Grossi, Emiliano Lorini, and François Schwarzentrubler. “The Ceteris Paribus Structure of Logics of Game Forms (Extended Abstract)”. In: *Proceedings of the Twenty-Sixth International Joint Conference on Artificial Intelligence*. International Joint Conferences on Artificial Intelligence Organization, Aug. 2017. DOI: 10.24963/ijcai.2017/710. URL: <https://doi.org/10.24963%2Fijcai.2017%2F710>.
- [532] Davide Grossi et al. “Foundations of organizational structures in multi-agent systems”. In: *Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems*. ACM, July 2005. DOI: 10.1145/1082473.1082578. URL: <https://doi.org/10.1145%2F1082473.1082578>.
- [533] Yilan Gu and Mikhail Soutchanski. “A description logic based situation calculus”. In: *Annals of Mathematics and Artificial Intelligence* 58.1-2 (Feb. 2010), pp. 3–83. DOI: 10.1007/s10472-010-9176-z. URL: <https://doi.org/10.1007%2Fs10472-010-9176-z>.
- [534] Dilian Gurov, Reiner Hähnle, and Eduard Kamburjan. “Who Carries the Burden of Modularity?” In: *Leveraging Applications of Formal Methods, Verification and Validation: Verification Principles*. Springer International Publishing, 2020, pp. 3–21. DOI: 10.1007/978-3-030-61362-4\_1. URL: [https://doi.org/10.1007%2F978-3-030-61362-4\\_1](https://doi.org/10.1007%2F978-3-030-61362-4_1).
- [535] Dilian Gurov, Christian Lidström, and Philipp Rümmer. “Alice in Wineland: A Fairy Tale with Contracts”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 229–242. DOI: 10.1007/978-3-031-08166-8\_11. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_11](https://doi.org/10.1007%2F978-3-031-08166-8_11).
- [536] Christian Haack et al. “Permission-Based Separation Logic for Multithreaded Java Programs”. In: *Logical Methods in Computer Science* Volume 11, Issue 1 (Feb. 2015). DOI: 10.2168/lmcs-11(1:2)2015. URL: <https://doi.org/10.2168%2Flmcs-11%281%3A2%292015>.
- [537] Susana Hahn. “Automata Techniques for Temporal Answer Set Programming”. In: *Electronic Proceedings in Theoretical Computer Science* 345 (Sept. 2021), pp. 258–266. DOI: 10.4204/eptcs.345.42. URL: <https://doi.org/10.4204%2Feptcs.345.42>.
- [538] Reiner Hähnle. “Dijkstra’s Legacy on Program Verification”. In: *Edsger Wybe Dijkstra*. ACM, July 2022, pp. 105–140. DOI: 10.1145/3544585.3544593. URL: <https://doi.org/10.1145%2F3544585.3544593>.

- [539] Reiner Hähnle and Marieke Huisman. “Deductive Software Verification: From Pen-and-Paper Proofs to Industrial Tools”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 345–373. DOI: 10.1007/978-3-319-91908-9\_18. URL: [https://doi.org/10.1007%2F978-3-319-91908-9\\_18](https://doi.org/10.1007%2F978-3-319-91908-9_18).
- [540] Reiner Hähnle and Wojciech Mostowski. “Verification of Safety Properties in the Presence of Transactions”. In: *Construction and Analysis of Safe, Secure, and Interoperable Smart Devices*. Springer Berlin Heidelberg, 2005, pp. 151–171. DOI: 10.1007/978-3-540-30569-9\_8. URL: [https://doi.org/10.1007%2F978-3-540-30569-9\\_8](https://doi.org/10.1007%2F978-3-540-30569-9_8).
- [541] Reiner Hähnle and Ina Schaefer. “A Liskov Principle for Delta-Oriented Programming”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Technologies for Mastering Change*. Springer Berlin Heidelberg, 2012, pp. 32–46. DOI: 10.1007/978-3-642-34026-0\_4. URL: [https://doi.org/10.1007%2F978-3-642-34026-0\\_4](https://doi.org/10.1007%2F978-3-642-34026-0_4).
- [542] Reiner Hähnle, Ina Schaefer, and Richard Bubel. “Reuse in Software Verification by Abstract Method Calls”. In: *Automated Deduction – CADE-24*. Springer Berlin Heidelberg, 2013, pp. 300–314. DOI: 10.1007/978-3-642-38574-2\_21. URL: [https://doi.org/10.1007%2F978-3-642-38574-2\\_21](https://doi.org/10.1007%2F978-3-642-38574-2_21).
- [543] Reiner Hähnle and Bernhard Steffen. “Constraint-Based Behavioral Consistency of Evolving Software Systems”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2018, pp. 205–218. DOI: 10.1007/978-3-319-96562-8\_8. URL: [https://doi.org/10.1007%2F978-3-319-96562-8\\_8](https://doi.org/10.1007%2F978-3-319-96562-8_8).
- [544] Reiner Hähnle, Nathan Wasser, and Richard Bubel. “Array Abstraction with Symbolic Pivots”. In: *Theory and Practice of Formal Methods*. Springer International Publishing, 2016, pp. 104–121. DOI: 10.1007/978-3-319-30734-3\_9. URL: [https://doi.org/10.1007%2F978-3-319-30734-3\\_9](https://doi.org/10.1007%2F978-3-319-30734-3_9).
- [545] Reiner Hähnle et al. “A visual interactive debugger based on symbolic execution”. In: *Proceedings of the IEEE/ACM international conference on Automated software engineering*. ACM, Sept. 2010. DOI: 10.1145/1858996.1859022. URL: <https://doi.org/10.1145%2F1858996.1859022>.
- [546] Reiner Hähnle et al. “Integration of a Security Type System into a Program Logic”. In: *Trustworthy Global Computing*. Springer Berlin Heidelberg, pp. 116–131. DOI: 10.1007/978-3-540-75336-0\_8. URL: [https://doi.org/10.1007%2F978-3-540-75336-0\\_8](https://doi.org/10.1007%2F978-3-540-75336-0_8).
- [547] Reiner Hähnle et al. “Integration of a security type system into a program logic”. In: *Theoretical Computer Science* 402.2-3 (Aug. 2008), pp. 172–189. DOI: 10.1016/j.tcs.2008.04.033. URL: <https://doi.org/10.1016%2Fj.tcs.2008.04.033>.

- [548] Reiner Hähnle et al. “Safer Parallelization”. In: *Leveraging Applications of Formal Methods, Verification and Validation: Engineering Principles*. Springer International Publishing, 2020, pp. 117–137. DOI: 10.1007/978-3-030-61470-6\_8. URL: [https://doi.org/10.1007%2F978-3-030-61470-6\\_8](https://doi.org/10.1007%2F978-3-030-61470-6_8).
- [549] Mustafa Al-Hajjaji et al. “Tool demo: testing configurable systems with FeatureIDE”. In: *Proceedings of the 2016 ACM SIGPLAN International Conference on Generative Programming: Concepts and Experiences*. ACM, Oct. 2016. DOI: 10.1145/2993236.2993254. URL: <https://doi.org/10.1145%2F2993236.2993254>.
- [550] Sylvain Hallé, Jason Vallet, and Raphaël Tremblay-Lessard. “On piggyback runtime monitoring of object-oriented programs”. In: *International Journal on Software Tools for Technology Transfer* 17.2 (June 2014), pp. 125–142. DOI: 10.1007/s10009-014-0326-1. URL: <https://doi.org/10.1007%2Fs10009-014-0326-1>.
- [551] Helle Hvid Hansen, Clemens Kupke, and Raul Andres Leal. “Strong Completeness for Iteration-Free Coalgebraic Dynamic Logics”. In: *Advanced Information Systems Engineering*. Springer Berlin Heidelberg, 2014, pp. 281–295. DOI: 10.1007/978-3-662-44602-7\_22. URL: [https://doi.org/10.1007%2F978-3-662-44602-7\\_22](https://doi.org/10.1007%2F978-3-662-44602-7_22).
- [552] Helle Hvid Hansen et al. “Parity Games and Automata for Game Logic”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2018, pp. 115–132. DOI: 10.1007/978-3-319-73579-5\_8. URL: [https://doi.org/10.1007%2F978-3-319-73579-5\\_8](https://doi.org/10.1007%2F978-3-319-73579-5_8).
- [553] Ryo Hatano and Katsuhiko Sano. “Constructive Dynamic Logic of Relation Changers”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 137–154. DOI: 10.1007/978-3-030-65840-3\_9. URL: [https://doi.org/10.1007%2F978-3-030-65840-3\\_9](https://doi.org/10.1007%2F978-3-030-65840-3_9).
- [554] Ryo Hatano, Katsuhiko Sano, and Satoshi Tojo. “Linear Algebraic Semantics for Multi-agent Communication”. In: *Proceedings of the International Conference on Agents and Artificial Intelligence*. SCITEPRESS - Science, 2015. DOI: 10.5220/0005219001740181. URL: <https://doi.org/10.5220%2F0005219001740181>.
- [555] John Hatcliff et al. “Behavioral interface specification languages”. In: *ACM Computing Surveys* 44.3 (June 2012), pp. 1–58. DOI: 10.1145/2187671.2187678. URL: <https://doi.org/10.1145%2F2187671.2187678>.
- [556] Robert Heinrich et al. “Dynamic Access Control in Industry 4.0 Systems”. In: *Digital Transformation*. Springer Berlin Heidelberg, 2023, pp. 143–170. DOI: 10.1007/978-3-662-65004-2\_6. URL: [https://doi.org/10.1007%2F978-3-662-65004-2\\_6](https://doi.org/10.1007%2F978-3-662-65004-2_6).
- [557] Lauri Hella and Antti Kuusisto. “Existential second-order logic and modal logic with quantified accessibility relations”. In: *Information and Computation* 247 (Apr. 2016), pp. 217–234. DOI: 10.1016/j.ic.2016.01.003. URL: <https://doi.org/10.1016%2Fj.ic.2016.01.003>.



- [558] Lauri Hella and Antti Kuusisto. “Monadic  $\text{mml:math xmlns:mml=}$ ”<http://www.w3.org/1998/Math/MathML>  $\text{altimg=}$ ”`si1.gif`”  $\text{overflow=}$ ”`scroll`”  $\text{mml:msubsupmml:mi mathvariant=}$ ”`normal`” $\{upSigma\}$ . In: *Electronic Notes in Theoretical Computer Science* 262 (May 2010), pp. 173–188. DOI: 10.1016/j.entcs.2010.04.013. URL: <https://doi.org/10.1016%2Fj.entcs.2010.04.013>.
- [559] Rolf Hennicker and Alexander Knapp. “Specification of systems with parameterised events: An institution-independent approach”. In: *Journal of Logical and Algebraic Methods in Programming* 128 (Aug. 2022), p. 100791. DOI: 10.1016/j.jlamp.2022.100791. URL: <https://doi.org/10.1016%2Fj.jlamp.2022.100791>.
- [560] Rolf Hennicker, Alexander Knapp, and Alexandre Madeira. “Hybrid dynamic logic institutions for event/data-based systems”. In: *Formal Aspects of Computing* 33.6 (Dec. 2021), pp. 1209–1248. DOI: 10.1007/s00165-021-00550-7. URL: <https://doi.org/10.1007%2Fs00165-021-00550-7>.
- [561] Rolf Hennicker and Alexandre Madeira. “Observational Semantics for Dynamic Logic with Binders”. In: *Recent Trends in Algebraic Development Techniques*. Springer International Publishing, 2017, pp. 135–152. DOI: 10.1007/978-3-319-72044-9\_10. URL: [https://doi.org/10.1007%2F978-3-319-72044-9\\_10](https://doi.org/10.1007%2F978-3-319-72044-9_10).
- [562] Martin Hentschel, Richard Bubel, and Reiner Hähnle. “The Symbolic Execution Debugger (SED): a platform for interactive symbolic execution, debugging, verification and more”. In: *International Journal on Software Tools for Technology Transfer* 21.5 (Mar. 2018), pp. 485–513. DOI: 10.1007/s10009-018-0490-9. URL: <https://doi.org/10.1007%2Fs10009-018-0490-9>.
- [563] Martin Hentschel, Reiner Hähnle, and Richard Bubel. “Can Formal Methods Improve the Efficiency of Code Reviews?” In: *Lecture Notes in Computer Science*. Springer International Publishing, 2016, pp. 3–19. DOI: 10.1007/978-3-319-33693-0\_1. URL: [https://doi.org/10.1007%2F978-3-319-33693-0\\_1](https://doi.org/10.1007%2F978-3-319-33693-0_1).
- [564] Martin Hentschel, Reiner Hähnle, and Richard Bubel. “Visualizing Unbounded Symbolic Execution”. In: *Tests and Proofs*. Springer International Publishing, 2014, pp. 82–98. DOI: 10.1007/978-3-319-09099-3\_7. URL: [https://doi.org/10.1007%2F978-3-319-09099-3\\_7](https://doi.org/10.1007%2F978-3-319-09099-3_7).
- [565] Martin Henz and Aquinas Hobor. “Teaching Experience: Logic and Formal Methods with Coq”. In: *Certified Programs and Proofs*. Springer Berlin Heidelberg, 2011, pp. 199–215. DOI: 10.1007/978-3-642-25379-9\_16. URL: [https://doi.org/10.1007%2F978-3-642-25379-9\\_16](https://doi.org/10.1007%2F978-3-642-25379-9_16).
- [566] Thomas A. Henzinger, Thibaud Hottelier, and Laura Kovács. “Valigator: A Verification Tool with Bound and Invariant Generation”. In: *Logic for Programming, Artificial Intelligence, and Reasoning*. Springer Berlin Heidelberg, 2008, pp. 333–342. DOI: 10.1007/978-3-540-89439-1\_24. URL: [https://doi.org/10.1007%2F978-3-540-89439-1\\_24](https://doi.org/10.1007%2F978-3-540-89439-1_24).

- [567] Mihai Herda, Shmuel Tyszberowicz, and Bernhard Beckert. “Using Dependence Graphs to Assist Verification and Testing of Information-Flow Properties”. In: *Tests and Proofs*. Springer International Publishing, 2018, pp. 83–102. DOI: 10.1007/978-3-319-92994-1\_5. URL: [https://doi.org/10.1007/978-3-319-92994-1\\_5](https://doi.org/10.1007/978-3-319-92994-1_5).
- [568] Mihai Herda et al. “Verification-based test case generation for information-flow properties”. In: *Proceedings of the 34th ACM/SIGAPP Symposium on Applied Computing*. ACM, Apr. 2019. DOI: 10.1145/3297280.3297500. URL: <https://doi.org/10.1145/3297280.3297500>.
- [569] Andreas Herzig and Emiliano Lorini. “A Dynamic Logic of Agency I: STIT, Capabilities and Powers”. In: *Journal of Logic, Language and Information* 19.1 (Oct. 2009), pp. 89–121. DOI: 10.1007/s10849-009-9105-x. URL: <https://doi.org/10.1007/s10849-009-9105-x>.
- [570] Andreas Herzig, Pilar Pozos-Parra, and François Schwarzentruher. “Belief Merging in Dynamic Logic of Propositional Assignments”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 381–398. DOI: 10.1007/978-3-319-04939-7\_19. URL: [https://doi.org/10.1007/978-3-319-04939-7\\_19](https://doi.org/10.1007/978-3-319-04939-7_19).
- [571] Andreas Herzig and Ivan Varzinczak. “Metatheory of actions: Beyond consistency”. In: *Artificial Intelligence* 171.16-17 (Nov. 2007), pp. 951–984. DOI: 10.1016/j.artint.2007.04.013. URL: <https://doi.org/10.1016/j.artint.2007.04.013>.
- [572] Marcel Hiel, Hans Weigand, and Willem-Jan Van Den Heuvel. “An Adaptive Service-Oriented Architecture”. In: *Enterprise Interoperability III*. Springer London, 2008, pp. 197–208. DOI: 10.1007/978-1-84800-221-0\_16. URL: [https://doi.org/10.1007/978-1-84800-221-0\\_16](https://doi.org/10.1007/978-1-84800-221-0_16).
- [573] Hans-Dieter A. Hiep et al. “Verifying OpenJDK’s LinkedList using KeY”. In: *Tools and Algorithms for the Construction and Analysis of Systems*. Springer International Publishing, 2020, pp. 217–234. DOI: 10.1007/978-3-030-45237-7\_13. URL: [https://doi.org/10.1007/978-3-030-45237-7\\_13](https://doi.org/10.1007/978-3-030-45237-7_13).
- [574] Hans-Dieter A. Hiep et al. “Verifying OpenJDK’s LinkedList using KeY (extended paper)”. In: *International Journal on Software Tools for Technology Transfer* 24.5 (Oct. 2022), pp. 783–802. DOI: 10.1007/s10009-022-00679-7. URL: <https://doi.org/10.1007/s10009-022-00679-7>.
- [575] Brian Hill and Francesca Poggioli. “A Contraction-free and Cut-free Sequent Calculus for Propositional Dynamic Logic”. In: *Studia Logica* 94.1 (Jan. 2010), pp. 47–72. DOI: 10.1007/s11225-010-9224-z. URL: <https://doi.org/10.1007/s11225-010-9224-z>.
- [576] Koen V. Hindriks and John-Jules Ch. Meyer. “Agent Logics as Program Logics: Grounding KARO”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, pp. 404–418. DOI: 10.1007/978-3-540-69912-5\_30. URL: [https://doi.org/10.1007/978-3-540-69912-5\\_30](https://doi.org/10.1007/978-3-540-69912-5_30).

- [577] Wataru Hino et al. “Healthiness from Duality”. In: *Proceedings of the 31st Annual ACM/IEEE Symposium on Logic in Computer Science*. ACM, July 2016. DOI: 10.1145/2933575.2935319. URL: <https://doi.org/10.1145/2933575.2935319>.
- [578] Shui-Ming Ho and Kung-Kiu Lau. “Charaterising Object-Based Frameworks in First-Order Predicate Logic”. In: *Series on Component-Based Software Development*. WORLD SCIENTIFIC, Nov. 2006, pp. 239–270. DOI: 10.1142/9789812772831\_0008. URL: [https://doi.org/10.1142/9789812772831\\_0008](https://doi.org/10.1142/9789812772831_0008).
- [579] W. Van der Hoek, D. Walther, and M. Wooldridge. “Reasoning About the Transfer of Control”. In: *Journal of Artificial Intelligence Research* 37 (Mar. 2010), pp. 437–477. DOI: 10.1613/jair.2901. URL: <https://doi.org/10.1613/jair.2901>.
- [580] Wiebe van der Hoek, Wojciech Jamroga, and Michael Wooldridge. “A logic for strategic reasoning”. In: *Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems*. ACM, July 2005. DOI: 10.1145/1082473.1082497. URL: <https://doi.org/10.1145/1082473.1082497>.
- [581] Wiebe van der Hoek, Wojciech Jamroga, and Michael Wooldridge. “Towards a theory of intention revision”. In: *Synthese* 155.2 (Feb. 2007), pp. 265–290. DOI: 10.1007/s11229-006-9145-6. URL: <https://doi.org/10.1007/s11229-006-9145-6>.
- [582] Wiebe van der Hoek and Michael Wooldridge. “Logics for Multiagent Systems”. In: *AI Magazine* 33.3 (Sept. 2012), pp. 92–105. DOI: 10.1609/aimag.v33i3.2427. URL: <https://doi.org/10.1609/aimag.v33i3.2427>.
- [583] Martin Hofmann and Mariela Pavlova. “Elimination of Ghost Variables in Program Logics”. In: *Trustworthy Global Computing*. Springer Berlin Heidelberg, pp. 1–20. DOI: 10.1007/978-3-540-78663-4\_1. URL: [https://doi.org/10.1007/978-3-540-78663-4\\_1](https://doi.org/10.1007/978-3-540-78663-4_1).
- [584] Peter Höfner and Georg Struth. “Automated Reasoning in Kleene Algebra”. In: *Automated Deduction – CADE-21*. Springer Berlin Heidelberg, pp. 279–294. DOI: 10.1007/978-3-540-73595-3\_19. URL: [https://doi.org/10.1007/978-3-540-73595-3\\_19](https://doi.org/10.1007/978-3-540-73595-3_19).
- [585] Hossein Hojjat, Philipp Rümmer, and Ali Shamakhi. “On Strings in Software Model Checking”. In: *Programming Languages and Systems*. Springer International Publishing, 2019, pp. 19–30. DOI: 10.1007/978-3-030-34175-6\_2. URL: [https://doi.org/10.1007/978-3-030-34175-6\\_2](https://doi.org/10.1007/978-3-030-34175-6_2).
- [586] K. Honda and N. Yoshida. “A Unified Theory of Program Logics: An Approach based on the  $\lambda$ -Calculus”. In: *The Computer Journal* 54.1 (Nov. 2009), pp. 88–107. DOI: 10.1093/comjnl/bxp092. URL: <https://doi.org/10.1093/comjnl/bxp092>.

- [587] Ping Hou and Hao Zheng. “Quantified Differential Temporal Dynamic Logic for Verifying Properties of Distributed Hybrid Systems”. In: *Logical Foundations of Computer Science*. Springer Berlin Heidelberg, 2013, pp. 234–251. DOI: 10.1007/978-3-642-35722-0\_17. URL: [https://doi.org/10.1007/978-3-642-35722-0\\_17](https://doi.org/10.1007/978-3-642-35722-0_17).
- [588] Erik Yu-Shing Hu et al. “Safety critical applications and hard real-time profile for Java”. In: *Proceedings of the 4th international workshop on Java technologies for real-time and embedded systems - JTRES '06*. ACM Press, 2006. DOI: 10.1145/1167999.1168021. URL: <https://doi.org/10.1145/1167999.1168021>.
- [589] Li Huang and Bertrand Meyer. *A Failed Proof Can Yield a Useful Test*. 2022. DOI: 10.48550/ARXIV.2208.09873. URL: <https://arxiv.org/abs/2208.09873>.
- [590] Xiaowei Huang et al. “Bridging Formal Methods and Machine Learning with Global Optimisation”. In: *Formal Methods and Software Engineering*. Springer International Publishing, 2022, pp. 1–19. DOI: 10.1007/978-3-031-17244-1\_1. URL: [https://doi.org/10.1007/978-3-031-17244-1\\_1](https://doi.org/10.1007/978-3-031-17244-1_1).
- [591] Yongfeng Huang et al. “Smart Contract Security: A Software Lifecycle Perspective”. In: *IEEE Access* 7 (2019), pp. 150184–150202. DOI: 10.1109/access.2019.2946988. URL: <https://doi.org/10.1109/2Access.2019.2946988>.
- [592] Lorenz Hubschle-Schneider and Peter Sanders. “Communication Efficient Checking of Big Data Operations”. In: *2018 IEEE International Parallel and Distributed Processing Symposium (IPDPS)*. IEEE, May 2018. DOI: 10.1109/ipdps.2018.00074. URL: <https://doi.org/10.1109/2Fipdps.2018.00074>.
- [593] Lorenz Hübschle-Schneider. “Communication-Efficient Probabilistic Algorithms: Selection, Sampling, and Checking”. en. In: (2020). DOI: 10.5445/IR/1000127719. URL: <https://publikationen.bibliothek.kit.edu/1000127719>.
- [594] Jesse Hughes, Albert Esterline, and Bahram Kimiaghalam. “Means-End Relations and a Measure of Efficacy”. In: *Journal of Logic, Language and Information* 15.1-2 (Mar. 2006), pp. 83–108. DOI: 10.1007/s10849-005-9008-4. URL: <https://doi.org/10.1007/2Fs10849-005-9008-4>.
- [595] Jesse Hughes and Lambèr M. M. Royakkers. “Don’t Ever Do That! Long-term Duties in PD e L”. In: *Studia Logica* 89.1 (May 2008), pp. 59–79. DOI: 10.1007/s11225-008-9118-5. URL: <https://doi.org/10.1007/2Fs11225-008-9118-5>.
- [596] Marieke Huisman and Sebastiaan J. C. Joosten. “Towards Reliable Concurrent Software”. In: *Principled Software Development*. Springer International Publishing, 2018, pp. 129–146. DOI: 10.1007/978-3-319-98047-8\_9. URL: [https://doi.org/10.1007/978-3-319-98047-8\\_9](https://doi.org/10.1007/978-3-319-98047-8_9).

- [597] Marieke Huisman and Wojciech Mostowski. “A Symbolic Approach to Permission Accounting for Concurrent Reasoning”. In: *2015 14th International Symposium on Parallel and Distributed Computing*. IEEE, June 2015. DOI: 10.1109/ispdc.2015.26. URL: <https://doi.org/10.1109/2Fispdc.2015.26>.
- [598] Marieke Huisman et al. “The VerifyThis Collaborative Long Term Challenge”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 246–260. DOI: 10.1007/978-3-030-64354-6\_10. URL: [https://doi.org/10.1007/2F978-3-030-64354-6\\_10](https://doi.org/10.1007/2F978-3-030-64354-6_10).
- [599] Marieke Huisman et al. “VerifyThis 2017 : A Program Verification Competition”. en. In: (2017). DOI: 10.5445/IR/1000077160. URL: <https://publikationen.bibliothek.kit.edu/1000077160>.
- [600] James J. Hunt. “The Practical Application of Formal Methods: Where Is the Benefit for Industry?”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2012, pp. 22–32. DOI: 10.1007/978-3-642-31762-0\_3. URL: [https://doi.org/10.1007/2F978-3-642-31762-0\\_3](https://doi.org/10.1007/2F978-3-642-31762-0_3).
- [601] James J. Hunt, Isabel Tonin, and Fridtjof B. Siebert. “Using global data flow analysis on bytecode to aid worst case execution time analysis for real-time Java programs”. In: *Proceedings of the 6th international workshop on Java technologies for real-time and embedded systems*. ACM, Sept. 2008. DOI: 10.1145/1434790.1434806. URL: <https://doi.org/10.1145/2F1434790.1434806>.
- [602] James J. Hunt et al. “Provably correct loops bounds for realtime Java programs”. In: *Proceedings of the 4th international workshop on Java technologies for real-time and embedded systems - JTRES '06*. ACM Press, 2006. DOI: 10.1145/1167999.1168026. URL: <https://doi.org/10.1145/2F1167999.1168026>.
- [603] Stefan Huster et al. “Using Robustness Testing to Handle Incomplete Verification Results When Combining Verification and Testing Techniques”. In: *Testing Software and Systems*. Springer International Publishing, 2017, pp. 54–70. DOI: 10.1007/978-3-319-67549-7\_4. URL: [https://doi.org/10.1007/2F978-3-319-67549-7\\_4](https://doi.org/10.1007/2F978-3-319-67549-7_4).
- [604] Bart Jacobs. “New Directions in Categorical Logic, for Classical, Probabilistic and Quantum Logic”. In: *Logical Methods in Computer Science* Volume 11, Issue 3 (Oct. 2015). DOI: 10.2168/lmcs-11(3:24)2015. URL: <https://doi.org/10.2168/2Flmcs-11%283%3A24%292015>.
- [605] Bart Jacobs, Joseph Kiniry, and Martijn Warnier. “Java Program Verification Challenges”. In: *Formal Methods for Components and Objects*. Springer Berlin Heidelberg, 2003, pp. 202–219. DOI: 10.1007/978-3-540-39656-7\_8. URL: [https://doi.org/10.1007/2F978-3-540-39656-7\\_8](https://doi.org/10.1007/2F978-3-540-39656-7_8).
- [606] Bart Jacobs, Peter Muller, and Frank Piessens. “Sound reasoning about unchecked exceptions”. In: *Fifth IEEE International Conference on Software Engineering and Formal Methods (SEFM 2007)*. IEEE, Sept. 2007. DOI: 10.1109/sefm.2007.36. URL: <https://doi.org/10.1109/2Fsefm.2007.36>.

- [607] Bart Jacobs, Wolter Pieters, and Martijn Warnier. “Statically checking confidentiality via dynamic labels”. In: *Proceedings of the 2005 workshop on Issues in the theory of security*. ACM, Jan. 2005. DOI: 10.1145/1045405.1045411. URL: <https://doi.org/10.1145/1045405.1045411>.
- [608] Bart Jacobs and Erik Poll. “Java Program Verification at Nijmegen: Developments and Perspective”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2004, pp. 134–153. DOI: 10.1007/978-3-540-37621-7\_7. URL: [https://doi.org/10.1007/978-3-540-37621-7\\_7](https://doi.org/10.1007/978-3-540-37621-7_7).
- [609] Joxan Jaffar, Jorge A. Navas, and Andrew E. Santosa. “Unbounded Symbolic Execution for Program Verification”. In: *Runtime Verification*. Springer Berlin Heidelberg, 2012, pp. 396–411. DOI: 10.1007/978-3-642-29860-8\_32. URL: [https://doi.org/10.1007/978-3-642-29860-8\\_32](https://doi.org/10.1007/978-3-642-29860-8_32).
- [610] Hamid Jahanian and Annabelle McIver. “Reasoning with Failures”. In: *Formal Methods and Software Engineering*. Springer International Publishing, 2020, pp. 36–52. DOI: 10.1007/978-3-030-63406-3\_3. URL: [https://doi.org/10.1007/978-3-030-63406-3\\_3](https://doi.org/10.1007/978-3-030-63406-3_3).
- [611] Marie-Christine Jakobs and Heiko Mantel. “A Unifying Framework for Dynamic Monitoring and a Taxonomy of Optimizations”. In: *Leveraging Applications of Formal Methods, Verification and Validation: Engineering Principles*. Springer International Publishing, 2020, pp. 72–92. DOI: 10.1007/978-3-030-61470-6\_6. URL: [https://doi.org/10.1007/978-3-030-61470-6\\_6](https://doi.org/10.1007/978-3-030-61470-6_6).
- [612] A. Jalila and D. Jeya Mala. “Structural Refinement: An Effective OCL-Based Testing Approach”. In: *Advances in Intelligent Systems and Computing*. Springer India, Nov. 2014, pp. 765–774. DOI: 10.1007/978-81-322-2126-5\_82. URL: [https://doi.org/10.1007/978-81-322-2126-5\\_82](https://doi.org/10.1007/978-81-322-2126-5_82).
- [613] Nor Aishah Mat Jam and Saifullizam Puteh. “Industry Relations and Innovative Teaching - Learning Approach Towards Education 4.0 in Malaysia”. In: *Proceedings of the 2022 6th International Conference on Education and E-Learning*. ACM, Nov. 2022. DOI: 10.1145/3578837.3578865. URL: <https://doi.org/10.1145/3578837.3578865>.
- [614] Wojciech Jamroga, Wiebe van der Hoek, and Michael Wooldridge. “Intentions and Strategies in Game-Like Scenarios”. In: *Progress in Artificial Intelligence*. Springer Berlin Heidelberg, 2005, pp. 512–523. DOI: 10.1007/11595014\_51. URL: [https://doi.org/10.1007/11595014\\_51](https://doi.org/10.1007/11595014_51).
- [615] Tudor Jebelean et al. “Automated Reasoning”. In: *Hagenberg Research*. Springer Berlin Heidelberg, 2010, pp. 63–101. DOI: 10.1007/978-3-642-02127-5\_3. URL: [https://doi.org/10.1007/978-3-642-02127-5\\_3](https://doi.org/10.1007/978-3-642-02127-5_3).

- [616] Ran Ji and Richard Bubel. “PE-KeY: A Partial Evaluator for Java Programs”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 283–295. DOI: 10.1007/978-3-642-30729-4\_20. URL: [https://doi.org/10.1007%2F978-3-642-30729-4\\_20](https://doi.org/10.1007%2F978-3-642-30729-4_20).
- [617] Ran Ji, Reiner Hähnle, and Richard Bubel. “Program Transformation Based on Symbolic Execution and Deduction”. In: *Software Engineering and Formal Methods*. Springer Berlin Heidelberg, 2013, pp. 289–304. DOI: 10.1007/978-3-642-40561-7\_20. URL: [https://doi.org/10.1007%2F978-3-642-40561-7\\_20](https://doi.org/10.1007%2F978-3-642-40561-7_20).
- [618] Christian Johansen and Audun Jøsang. “Probabilistic Modelling of Humans in Security Ceremonies”. In: *Data Privacy Management, Autonomous Spontaneous Security, and Security Assurance*. Springer International Publishing, 2015, pp. 277–292. DOI: 10.1007/978-3-319-17016-9\_18. URL: [https://doi.org/10.1007%2F978-3-319-17016-9\\_18](https://doi.org/10.1007%2F978-3-319-17016-9_18).
- [619] Christian Johansen, Tore Pedersen, and Audun Jøsang. “Towards Behavioural Computer Science”. In: *Trust Management X*. Springer International Publishing, 2016, pp. 154–163. DOI: 10.1007/978-3-319-41354-9\_12. URL: [https://doi.org/10.1007%2F978-3-319-41354-9\\_12](https://doi.org/10.1007%2F978-3-319-41354-9_12).
- [620] Germain Jolly, Sylvain Vernois, and Christophe Rosenberger. “An Observe-and-Detect Methodology for the Security and Functional Testing of Smart Card Applications”. In: *Proceedings of the 2nd International Conference on Information Systems Security and Privacy*. SCITEPRESS - Science, 2016. DOI: 10.5220/0005682202820289. URL: <https://doi.org/10.5220%2F0005682202820289>.
- [621] C. B. Jones and A. W. Roscoe. “Insight, Inspiration and Collaboration”. In: *Reflections on the Work of C.A.R. Hoare*. Springer London, 2010, pp. 1–32. DOI: 10.1007/978-1-84882-912-1\_1. URL: [https://doi.org/10.1007%2F978-1-84882-912-1\\_1](https://doi.org/10.1007%2F978-1-84882-912-1_1).
- [622] R. Jonk et al. “SMT-based verification of temporal properties for component-based software systems”. In: *IFAC-PapersOnLine* 53.4 (2020), pp. 493–500. DOI: 10.1016/j.ifacol.2021.04.045. URL: <https://doi.org/10.1016%2Fj.ifacol.2021.04.045>.
- [623] Sebastiaan J. C. Joosten et al. “An exercise in verifying sequential programs with VerCors”. In: *Companion Proceedings for the ISSA/ECOOP 2018 Workshops*. ACM, July 2018. DOI: 10.1145/3236454.3236479. URL: <https://doi.org/10.1145%2F3236454.3236479>.
- [624] Joshi, Rajeev et al. *VSTTE 2010 workshop proceedings*. en. Tech. rep. 2010. DOI: 10.3929/ETHZ-A-006860117. URL: <http://hdl.handle.net/20.500.11850/68924>.
- [625] Desharnais Jules, Bernhard Moeller, and Struth Georg. “Algebraic Notions of Termination”. In: *Logical Methods in Computer Science* Volume 7, Issue 1 (Feb. 2011). DOI: 10.2168/lmcs-7(1:1)2011. URL: <https://doi.org/10.2168%2Flmcs-7%281%3A1%292011>.

- [626] J. Julliand et al. “Under-Approximation Generation Driven by Relevance Predicates and Variants”. In: *Tests and Proofs*. Springer International Publishing, 2018, pp. 63–82. DOI: 10.1007/978-3-319-92994-1\_4. URL: [https://doi.org/10.1007%2F978-3-319-92994-1\\_4](https://doi.org/10.1007%2F978-3-319-92994-1_4).
- [627] Wolfram Kahl. “Towards “mouldable code” via nested code graph transformation”. In: *Journal of Logical and Algebraic Methods in Programming* 83.2 (Mar. 2014), pp. 225–234. DOI: 10.1016/j.jlap.2014.02.010. URL: <https://doi.org/10.1016%2Fj.jlap.2014.02.010>.
- [628] Eduard Kamburjan. “Behavioral Program Logic”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 391–408. DOI: 10.1007/978-3-030-29026-9\_22. URL: [https://doi.org/10.1007%2F978-3-030-29026-9\\_22](https://doi.org/10.1007%2F978-3-030-29026-9_22).
- [629] Eduard Kamburjan and Tzu-Chun Chen. “Stateful Behavioral Types for Active Objects”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2018, pp. 214–235. DOI: 10.1007/978-3-319-98938-9\_13. URL: [https://doi.org/10.1007%2F978-3-319-98938-9\\_13](https://doi.org/10.1007%2F978-3-319-98938-9_13).
- [630] Eduard Kamburjan and Lukas Grätz. “Increasing Engagement with Interactive Visualization: Formal Methods as Serious Games”. In: *Formal Methods Teaching*. Springer International Publishing, 2021, pp. 43–59. DOI: 10.1007/978-3-030-91550-6\_4. URL: [https://doi.org/10.1007%2F978-3-030-91550-6\\_4](https://doi.org/10.1007%2F978-3-030-91550-6_4).
- [631] Eduard Kamburjan, Stefan Mitsch, and Reiner Hähnle. “A Hybrid Programming Language for Formal Modeling and Verification of Hybrid Systems”. en. In: *Leibniz Transactions on Embedded Systems* (2022), Vol. 8 No. 2 (2022): Special Issue on Distributed Hybrid Systems. DOI: 10.4230/LITES.8.2.4. URL: <https://ojs.dagstuhl.de/index.php/lites/article/view/lites-v008-i002-a004>.
- [632] Eduard Kamburjan, Marco Scaletta, and Nils Rollshausen. “Deductive verification of active objects with Crowbar”. In: *Science of Computer Programming* 226 (Mar. 2023), p. 102928. DOI: 10.1016/j.scico.2023.102928. URL: <https://doi.org/10.1016%2Fj.scico.2023.102928>.
- [633] Eduard Kamburjan et al. “Behavioral Contracts for Cooperative Scheduling”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 85–121. DOI: 10.1007/978-3-030-64354-6\_4. URL: [https://doi.org/10.1007%2F978-3-030-64354-6\\_4](https://doi.org/10.1007%2F978-3-030-64354-6_4).
- [634] Mark Kaminski, Thomas Schneider, and Gert Smolka. “Correctness and Worst-Case Optimality of Pratt-Style Decision Procedures for Modal and Hybrid Logics”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2011, pp. 196–210. DOI: 10.1007/978-3-642-22119-4\_16. URL: [https://doi.org/10.1007%2F978-3-642-22119-4\\_16](https://doi.org/10.1007%2F978-3-642-22119-4_16).



- [635] Ioannis T. Kassios, Peter Müller, and Malte Schwerhoff. “Comparing Verification Condition Generation with Symbolic Execution: An Experience Report”. In: *Verified Software: Theories, Tools, Experiments*. Springer Berlin Heidelberg, 2012, pp. 196–208. DOI: 10.1007/978-3-642-27705-4\_16. URL: [https://doi.org/10.1007/978-3-642-27705-4\\_16](https://doi.org/10.1007/978-3-642-27705-4_16).
- [636] Stefan Kauer and Jürgen F.H. Winkler. “Mechanical inference of invariants for FOR-loops”. In: *Journal of Symbolic Computation* 45.11 (Nov. 2010), pp. 1101–1113. DOI: 10.1016/j.jsc.2008.11.008. URL: <https://doi.org/10.1016/j.jsc.2008.11.008>.
- [637] G. A. KAVVOS and DANIEL GRATZER. “UNDER LOCK AND KEY: A PROOF SYSTEM FOR A MULTIMODAL LOGIC”. In: *The Bulletin of Symbolic Logic* 29.2 (Apr. 2023), pp. 264–293. DOI: 10.1017/bsl.2023.14. URL: <https://doi.org/10.1017/bsl.2023.14>.
- [638] Rody Kersten et al. “Making resource analysis practical for real-time Java”. In: *Proceedings of the 10th International Workshop on Java Technologies for Real-time and Embedded Systems*. ACM, Oct. 2012. DOI: 10.1145/2388936.2388959. URL: <https://doi.org/10.1145/2388936.2388959>.
- [639] Rody W. J. Kersten et al. “ResAna: a resource analysis toolset for (real-time) JAVA”. In: *Concurrency and Computation: Practice and Experience* 26.14 (Oct. 2013), pp. 2432–2455. DOI: 10.1002/cpe.3154. URL: <https://doi.org/10.1002/cpe.3154>.
- [640] Oliver Keszocze et al. “(Semi)automatic Translation of Legal Regulations to Formal Representations: Expanding the Horizon of EDA Applications”. In: *Natural Language Processing for Electronic Design Automation*. Springer International Publishing, 2020, pp. 1–11. DOI: 10.1007/978-3-030-52273-5\_1. URL: [https://doi.org/10.1007/978-3-030-52273-5\\_1](https://doi.org/10.1007/978-3-030-52273-5_1).
- [641] Sybren de Kinderen, Qin Ma, and Monika Kaczmarek-Heß. “Leveraging the power of formal methods in the realm of enterprise modeling—On the example of extending the (meta) model verification possibilities of ADOxx with Alloy”. In: *Computers in Industry* 151 (Oct. 2023), p. 103974. DOI: 10.1016/j.compind.2023.103974. URL: <https://doi.org/10.1016/j.compind.2023.103974>.
- [642] T.C. King. “Governing Governance”. PhD thesis. 2016. DOI: 10.4233/UUID:82438672-3E8B-477A-A39E-0CE189639E88. URL: <http://resolver.tudelft.nl/uuid:82438672-3e8b-477a-a39e-0ce189639e88>.
- [643] Kohei Kishida. “Categories for Dynamic Epistemic Logic”. In: *Electronic Proceedings in Theoretical Computer Science* 251 (July 2017), pp. 353–372. DOI: 10.4204/eptcs.251.26. URL: <https://doi.org/10.4204/eptcs.251.26>.
- [644] Kohei Kishida. “Stochastic Relational Presheaves and Dynamic Logic for Contextuality”. In: *Electronic Proceedings in Theoretical Computer Science* 172 (Dec. 2014), pp. 115–132. DOI: 10.4204/eptcs.172.9. URL: <https://doi.org/10.4204/eptcs.172.9>.

- [645] Jonas Klamroth et al. “The Karlsruhe Java Verification Suite”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 290–312. DOI: 10.1007/978-3-031-08166-8\_14. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_14](https://doi.org/10.1007%2F978-3-031-08166-8_14).
- [646] Andrey Klebanov and Alexander Mikhaylov. “Automata-Based Programming Technology Extension for Generation of JML Annotated Java Card Code”. In: *Proceedings of the Spring/Summer Young Researchers’ Colloquium on Software Engineering*. Institute for System Programming of the Russian Academy of Sciences, 2008. DOI: 10.15514/syrcose-2008-2-8. URL: <https://doi.org/10.15514%2Fsyrcose-2008-2-8>.
- [647] Vladimir Klebanov. “A JMM-Faithful Non-interference Calculus for Java”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2005, pp. 101–111. DOI: 10.1007/978-3-540-31869-9\_10. URL: [https://doi.org/10.1007%2F978-3-540-31869-9\\_10](https://doi.org/10.1007%2F978-3-540-31869-9_10).
- [648] Vladimir Klebanov. “Precise quantitative information flow analysis— a symbolic approach”. In: *Theoretical Computer Science* 538 (June 2014), pp. 124–139. DOI: 10.1016/j.tcs.2014.04.022. URL: <https://doi.org/10.1016%2Fj.tcs.2014.04.022>.
- [649] Vladimir Klebanov et al. “The 1st Verified Software Competition: Experience Report”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2011, pp. 154–168. DOI: 10.1007/978-3-642-21437-0\_14. URL: [https://doi.org/10.1007%2F978-3-642-21437-0\\_14](https://doi.org/10.1007%2F978-3-642-21437-0_14).
- [650] Moritz Kleine. “CSP as a Coordination Language”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2011, pp. 65–79. DOI: 10.1007/978-3-642-21464-6\_5. URL: [https://doi.org/10.1007%2F978-3-642-21464-6\\_5](https://doi.org/10.1007%2F978-3-642-21464-6_5).
- [651] Alexander Knüppel, Leon Schaer, and Ina Schaefer. “How much Specification is Enough? Mutation Analysis for Software Contracts”. In: *2021 IEEE/ACM 9th International Conference on Formal Methods in Software Engineering (FormalISE)*. IEEE, May 2021. DOI: 10.1109/formalise52586.2021.00011. URL: <https://doi.org/10.1109%2Fformalise52586.2021.00011>.
- [652] Alexander Knüppel et al. “Scalability of Deductive Verification Depends on Method Call Treatment”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2018, pp. 159–175. DOI: 10.1007/978-3-030-03427-6\_15. URL: [https://doi.org/10.1007%2F978-3-030-03427-6\\_15](https://doi.org/10.1007%2F978-3-030-03427-6_15).
- [653] Alexander Knüppel et al. “Skill-Based Verification of Cyber-Physical Systems”. In: *Fundamental Approaches to Software Engineering*. Springer International Publishing, 2020, pp. 203–223. DOI: 10.1007/978-3-030-45234-6\_10. URL: [https://doi.org/10.1007%2F978-3-030-45234-6\\_10](https://doi.org/10.1007%2F978-3-030-45234-6_10).

- [654] Michael Kohlhase, Felix Mance, and Florian Rabe. “A Universal Machine for Biform Theory Graphs”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2013, pp. 82–97. DOI: 10.1007/978-3-642-39320-4\_6. URL: [https://doi.org/10.1007%2F978-3-642-39320-4\\_6](https://doi.org/10.1007%2F978-3-642-39320-4_6).
- [655] Juraj Kolčák et al. “Relational Differential Dynamic Logic”. In: *Tools and Algorithms for the Construction and Analysis of Systems*. Springer International Publishing, 2020, pp. 191–208. DOI: 10.1007/978-3-030-45190-5\_11. URL: [https://doi.org/10.1007%2F978-3-030-45190-5\\_11](https://doi.org/10.1007%2F978-3-030-45190-5_11).
- [656] Igor Konnov et al. “A short counterexample property for safety and liveness verification of fault-tolerant distributed algorithms”. In: *Proceedings of the 44th ACM SIGPLAN Symposium on Principles of Programming Languages*. ACM, Jan. 2017. DOI: 10.1145/3009837.3009860. URL: <https://doi.org/10.1145%2F3009837.3009860>.
- [657] Barteld Kooi. “Dynamic Epistemic Logic (Update of )”. In: *Handbook of Logic and Language*. Elsevier, 2011, pp. 671–690. DOI: 10.1016/b978-0-444-53726-3.00013-x. URL: <https://doi.org/10.1016%2Fb978-0-444-53726-3.00013-x>.
- [658] Piotr Kosiuczenko. “On the Validation of Invariants at Runtime”. In: *Fundamenta Informaticae* 125.2 (2013), pp. 183–222. DOI: 10.3233/fi-2013-859. URL: <https://doi.org/10.3233%2Ffi-2013-859>.
- [659] Egor Kostylev, Juan Reutter, and Domagoj Vrgoc. “XPath for DL Ontologies”. In: *Proceedings of the AAAI Conference on Artificial Intelligence* 29.1 (Feb. 2015). DOI: 10.1609/aaai.v29i1.9396. URL: <https://doi.org/10.1609%2Faaai.v29i1.9396>.
- [660] Egor V. Kostylev, Juan L. Reutter, and Domagoj Vrgoc. *Containment of Data Graph Queries*. en. 2014. DOI: 10.5441/002/ICDT.2014.16. URL: [https://openproceedings.org/ICDT/2014/paper\\_50.pdf](https://openproceedings.org/ICDT/2014/paper_50.pdf).
- [661] Egor V. Kostylev, Juan L. Reutter, and Domagoj Vrgoč. “Static analysis of navigational XPath over graph databases”. In: *Information Processing Letters* 116.7 (July 2016), pp. 467–474. DOI: 10.1016/j.ip1.2016.03.006. URL: <https://doi.org/10.1016%2Fj.ip1.2016.03.006>.
- [662] Laura Kovács and Simon Robillard. “Reasoning About Loops Using Vampire”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/tcvj. URL: <https://doi.org/10.29007%2Ftcvj>.
- [663] Boris Kovalerchuk, Leonid Perlovsky, and Gregory Wheeler. “Modelling phenomena and dynamic logic of phenomena”. In: *Journal of Applied Non-Classical Logics* 22.1-2 (June 2012), pp. 53–82. DOI: 10.1080/11663081.2012.682439. URL: <https://doi.org/10.1080%2F11663081.2012.682439>.
- [664] Dexter Kozen. “Halting and Equivalence of Program Schemes in Models of Arbitrary Theories”. In: *Fields of Logic and Computation*. Springer Berlin Heidelberg, 2010, pp. 463–469. DOI: 10.1007/978-3-642-15025-8\_22. URL: [https://doi.org/10.1007%2F978-3-642-15025-8\\_22](https://doi.org/10.1007%2F978-3-642-15025-8_22).

- [665] DEXTER KOZEN and ALEXANDRA SILVA. “Practical coinduction”. In: *Mathematical Structures in Computer Science* 27.7 (Feb. 2016), pp. 1132–1152. DOI: 10.1017/s0960129515000493. URL: <https://doi.org/10.1017%2Fs0960129515000493>.
- [666] Simon Kramer. “Logical concepts in cryptography”. In: *ACM SIGACT News* 38.4 (Dec. 2007), pp. 65–66. DOI: 10.1145/1345189.1345205. URL: <https://doi.org/10.1145%2F1345189.1345205>.
- [667] Mariya Kropacheva and Alexander Legalov. “Formal Verification of Programs in the Pifagor Language”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2013, pp. 80–89. DOI: 10.1007/978-3-642-39958-9\_7. URL: [https://doi.org/10.1007%2F978-3-642-39958-9\\_7](https://doi.org/10.1007%2F978-3-642-39958-9_7).
- [668] Elias Kuitert et al. “Verification Strategies for Feature-Oriented Software Product Lines”. In: *Proceedings of the 16th International Working Conference on Variability Modelling of Software-Intensive Systems*. ACM, Feb. 2022. DOI: 10.1145/3510466.3511272. URL: <https://doi.org/10.1145%2F3510466.3511272>.
- [669] Ondřej Kunčar and Andrei Popescu. “Safety and conservativity of definitions in HOL and Isabelle/HOL”. In: *Proceedings of the ACM on Programming Languages* 2.POPL (Dec. 2017), pp. 1–26. DOI: 10.1145/3158112. URL: <https://doi.org/10.1145%2F3158112>.
- [670] Antonio Kung et al. “Issues in building an ANRTS platform”. In: *Proceedings of the 4th international workshop on Java technologies for real-time and embedded systems - JTRES '06*. ACM Press, 2006. DOI: 10.1145/1167999.1168024. URL: <https://doi.org/10.1145%2F1167999.1168024>.
- [671] Matthias Kuntz, Stefan Leue, and Christoph Scheben. “Extending Non-Termination Proof Techniques to Asynchronously Communicating Concurrent Programs”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/c7v2. URL: <https://doi.org/10.29007%2Fc7v2>.
- [672] Ralf Kusters, Tomasz Truderung, and Jurgen Graf. “A Framework for the Cryptographic Verification of Java-Like Programs”. In: *2012 IEEE 25th Computer Security Foundations Symposium*. IEEE, June 2012. DOI: 10.1109/csf.2012.9. URL: <https://doi.org/10.1109%2Fc7v2>.
- [673] Ralf Kusters et al. “A Hybrid Approach for Proving Noninterference of Java Programs”. In: *2015 IEEE 28th Computer Security Foundations Symposium*. IEEE, July 2015. DOI: 10.1109/csf.2015.28. URL: <https://doi.org/10.1109%2Fc7v2>.
- [674] Ralf Küsters and Tomasz Truderung. “Security in e-voting”. In: *it - Information Technology* 56.6 (Nov. 2014), pp. 300–306. DOI: 10.1515/itit-2014-1062. URL: <https://doi.org/10.1515%2Fitit-2014-1062>.

- [675] Marcel Kyas, Cristian Prisacariu, and Gerardo Schneider. “Run-Time Monitoring of Electronic Contracts”. In: *Automated Technology for Verification and Analysis*. Springer Berlin Heidelberg, 2008, pp. 397–407. DOI: 10.1007/978-3-540-88387-6\_34. URL: [https://doi.org/10.1007%2F978-3-540-88387-6\\_34](https://doi.org/10.1007%2F978-3-540-88387-6_34).
- [676] Peter Lammich. “Efficient Verified Implementation of Introsort and Pdqsort”. In: *Automated Reasoning*. Springer International Publishing, 2020, pp. 307–323. DOI: 10.1007/978-3-030-51054-1\_18. URL: [https://doi.org/10.1007%2F978-3-030-51054-1\\_18](https://doi.org/10.1007%2F978-3-030-51054-1_18).
- [677] Ivan Lanese et al. “Fault Model Design Space for Cooperative Concurrency”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Specialized Techniques and Applications*. Springer Berlin Heidelberg, 2014, pp. 22–36. DOI: 10.1007/978-3-662-45231-8\_3. URL: [https://doi.org/10.1007%2F978-3-662-45231-8\\_3](https://doi.org/10.1007%2F978-3-662-45231-8_3).
- [678] Frédéric Lang, Radu Mateescu, and Franco Mazzanti. “Compositional verification of concurrent systems by combining bisimulations”. In: *Formal Methods in System Design* 58.1-2 (Feb. 2021), pp. 83–125. DOI: 10.1007/s10703-021-00360-w. URL: <https://doi.org/10.1007%2Fs10703-021-00360-w>.
- [679] Martin Lange. “Model checking propositional dynamic logic with all extras”. In: *Journal of Applied Logic* 4.1 (Mar. 2006), pp. 39–49. DOI: 10.1016/j.jal.2005.08.002. URL: <https://doi.org/10.1016%2Fj.jal.2005.08.002>.
- [680] Martin Lange and Carsten Lutz. “2-Exp Time lower bounds for propositional dynamic logics with intersection”. In: *Journal of Symbolic Logic* 70.4 (Dec. 2005), pp. 1072–1086. DOI: 10.2178/jsl1129642115. URL: <https://doi.org/10.2178%2Fjsl1%2F1129642115>.
- [681] Florian Lanzinger et al. “Scalability and precision by combining expressive type systems and deductive verification”. In: *Proceedings of the ACM on Programming Languages* 5.OOPSLA (Oct. 2021), pp. 1–29. DOI: 10.1145/3485520. URL: <https://doi.org/10.1145%2F3485520>.
- [682] Kim G. Larsen, Radu Mardare, and Bingtian Xue. “On decidability of recursive weighted logics”. In: *Soft Computing* 22.4 (June 2016), pp. 1085–1102. DOI: 10.1007/s00500-016-2193-z. URL: <https://doi.org/10.1007%2Fs00500-016-2193-z>.
- [683] Kim Guldstrand Larsen, Radu Mardare, and Bingtian Xue. “A Decidable Recursive Logic for Weighted Transition Systems”. In: *Theoretical Aspects of Computing – ICTAC 2014*. Springer International Publishing, 2014, pp. 460–476. DOI: 10.1007/978-3-319-10882-7\_27. URL: [https://doi.org/10.1007%2F978-3-319-10882-7\\_27](https://doi.org/10.1007%2F978-3-319-10882-7_27).
- [684] Kim Guldstrand Larsen, Radu Mardare, and Bingtian Xue. “Decidability and Expressiveness of Recursive Weighted Logic”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2015, pp. 216–231. DOI: 10.1007/978-3-662-46823-4\_18. URL: [https://doi.org/10.1007%2F978-3-662-46823-4\\_18](https://doi.org/10.1007%2F978-3-662-46823-4_18).

- [685] Brian R. Larson, Patrice Chalin, and John Hatcliff. “BLESS: Formal Specification and Verification of Behaviors for Embedded Systems with Software”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2013, pp. 276–290. DOI: 10.1007/978-3-642-38088-4\_19. URL: [https://doi.org/10.1007%2F978-3-642-38088-4\\_19](https://doi.org/10.1007%2F978-3-642-38088-4_19).
- [686] Daniel Larsson and Wojciech Mostowski. “Specifying Java Card API in OCL”. In: *Electronic Notes in Theoretical Computer Science* 102 (Nov. 2004), pp. 3–19. DOI: 10.1016/j.entcs.2003.09.001. URL: <https://doi.org/10.1016%2Fj.entcs.2003.09.001>.
- [687] Sophie Lathouwers and Marieke Huisman. “Formal specifications investigated”. In: *Proceedings of the IEEE/ACM 10th International Conference on Formal Methods in Software Engineering*. ACM, May 2022. DOI: 10.1145/3524482.3527652. URL: <https://doi.org/10.1145%2F3524482.3527652>.
- [688] Markus Latte. “Branching-time logics and fairness, revisited”. In: *Mathematical Structures in Computer Science* 31.9 (Oct. 2021), pp. 1135–1144. DOI: 10.1017/s0960129521000475. URL: <https://doi.org/10.1017%2Fs0960129521000475>.
- [689] Markus Latte. “Separation of Test-Free Propositional Dynamic Logics over Context-Free Languages”. In: *Electronic Proceedings in Theoretical Computer Science* 54 (June 2011), pp. 207–221. DOI: 10.4204/eptcs.54.15. URL: <https://doi.org/10.4204%2Feptcs.54.15>.
- [690] Gerard Renardel de Lavalette, Barteld Kooi, and Rineke Verbrugge. “Strong Completeness and Limited Canonicity for PDL”. In: *Journal of Logic, Language and Information* 17.1 (Sept. 2007), pp. 69–87. DOI: 10.1007/s10849-007-9051-4. URL: <https://doi.org/10.1007%2Fs10849-007-9051-4>.
- [691] Ton Chanh Le et al. “A Resource-Based Logic for Termination and Non-termination Proofs”. In: *Formal Methods and Software Engineering*. Springer International Publishing, 2014, pp. 267–283. DOI: 10.1007/978-3-319-11737-9\_18. URL: [https://doi.org/10.1007%2F978-3-319-11737-9\\_18](https://doi.org/10.1007%2F978-3-319-11737-9_18).
- [692] Gary T. Leavens. “JML’s Rich, Inherited Specifications for Behavioral Subtypes”. In: *Formal Methods and Software Engineering*. Springer Berlin Heidelberg, 2006, pp. 2–34. DOI: 10.1007/11901433\_2. URL: [https://doi.org/10.1007%2F11901433\\_2](https://doi.org/10.1007%2F11901433_2).
- [693] Gary T. Leavens, David R. Cok, and Amirfarhad Nilizadeh. “Further Lessons from the JML Project”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 313–349. DOI: 10.1007/978-3-031-08166-8\_15. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_15](https://doi.org/10.1007%2F978-3-031-08166-8_15).
- [694] Gary T. Leavens and David A. Naumann. “Behavioral Subtyping, Specification Inheritance, and Modular Reasoning”. In: *ACM Transactions on Programming Languages and Systems* 37.4 (Aug. 2015), pp. 1–88. DOI: 10.1145/2766446. URL: <https://doi.org/10.1145%2F2766446>.

- [695] Kiyong Lee, Nikhil Krishnaswamy, and James Pustejovsky. *An Abstract Specification of VoxML as an Annotation Language*. 2023. DOI: 10 . 48550 / ARXIV . 2305 . 13076. URL: <https://arxiv.org/abs/2305.13076>.
- [696] Ronald M. Lee and Vu Hoang Nguyen. “Formal Aspects of Deontic Process Modeling: International Trade Procedures”. In: *SSRN Electronic Journal* (2012). DOI: 10 . 2139 / ssrn . 2070376. URL: <https://doi.org/10.2139%2Fssrn.2070376>.
- [697] Hermann Lehner and Peter Müller. “Efficient Runtime Assertion Checking of Assignable Clauses with Datagroups”. In: *Fundamental Approaches to Software Engineering*. Springer Berlin Heidelberg, 2010, pp. 338–352. DOI: 10 . 1007 / 978 - 3 - 642 - 12029 - 9 \_ 24. URL: [https://doi.org/10.1007%2F978-3-642-12029-9\\_24](https://doi.org/10.1007%2F978-3-642-12029-9_24).
- [698] Lehner, Hermann. “A formal definition of JML in Coq and its application to runtime assertion checking”. en. PhD thesis. 2011. DOI: 10.3929/ETHZ-A-006680049. URL: <http://hdl.handle.net/20.500.11850/44276>.
- [699] K. Rustan M. Leino. “Automating Induction with an SMT Solver”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 315–331. DOI: 10 . 1007 / 978 - 3 - 642 - 27940 - 9 \_ 21. URL: [https://doi.org/10.1007%2F978-3-642-27940-9\\_21](https://doi.org/10.1007%2F978-3-642-27940-9_21).
- [700] K. Rustan M. Leino. “Automating Theorem Proving with SMT”. In: *Interactive Theorem Proving*. Springer Berlin Heidelberg, 2013, pp. 2–16. DOI: 10.1007/978-3-642-39634-2\_2. URL: [https://doi.org/10.1007%2F978-3-642-39634-2\\_2](https://doi.org/10.1007%2F978-3-642-39634-2_2).
- [701] K. Rustan M. Leino. “Dafny: An Automatic Program Verifier for Functional Correctness”. In: *Logic for Programming, Artificial Intelligence, and Reasoning*. Springer Berlin Heidelberg, 2010, pp. 348–370. DOI: 10 . 1007 / 978 - 3 - 642 - 17511 - 4 \_ 20. URL: [https://doi.org/10.1007%2F978-3-642-17511-4\\_20](https://doi.org/10.1007%2F978-3-642-17511-4_20).
- [702] K. Rustan M. Leino and Paqui Lucio. “An Assertional Proof of the Stability and Correctness of Natural Mergesort”. In: *ACM Transactions on Computational Logic* 17.1 (Nov. 2015), pp. 1–22. DOI: 10 . 1145 / 2814571. URL: <https://doi.org/10.1145%2F2814571>.
- [703] K. Rustan M. Leino and Michał Moskal. “Co-induction Simply”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 382–398. DOI: 10 . 1007 / 978 - 3 - 319 - 06410 - 9 \_ 27. URL: [https://doi.org/10.1007%2F978-3-319-06410-9\\_27](https://doi.org/10.1007%2F978-3-319-06410-9_27).
- [704] D. Leivant. “Matching Explicit and Modal Reasoning about Programs: A Proof Theoretic Delineation of Dynamic Logic”. In: *21st Annual IEEE Symposium on Logic in Computer Science (LICS’06)*. IEEE. DOI: 10 . 1109 / lics . 2006 . 33. URL: <https://doi.org/10.1109%2Flics.2006.33>.
- [705] Daniel Leivant. “On the Completeness of Dynamic Logic”. In: *Foundations of Software Science and Computational Structures*. Springer Berlin Heidelberg, 2009, pp. 78–91. DOI: 10 . 1007 / 978 - 3 - 642 - 00596 - 1 \_ 7. URL: [https://doi.org/10.1007%2F978-3-642-00596-1\\_7](https://doi.org/10.1007%2F978-3-642-00596-1_7).

- [706] Daniel Leivant. “Propositional Dynamic Logic with Program Quantifiers”. In: *Electronic Notes in Theoretical Computer Science* 218 (Oct. 2008), pp. 231–240. DOI: 10.1016/j.entcs.2008.10.014. URL: <https://doi.org/10.1016%2Fj.entcs.2008.10.014>.
- [707] Daniel M Leivant. “Global semantic typing for inductive and coinductive computing”. In: *Logical Methods in Computer Science* Volume 10, Issue 4 (Dec. 2014). DOI: 10.2168/lmcs-10(4:18)2014. URL: <https://doi.org/10.2168%2Flmcs-10%284%3A18%292014>.
- [708] Leonard Lensink, Sjaak Smetters, and Marko van Eekelen. “Generating Verifiable Java Code from Verified PVS Specifications”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 310–325. DOI: 10.1007/978-3-642-28891-3\_30. URL: [https://doi.org/10.1007%2F978-3-642-28891-3\\_30](https://doi.org/10.1007%2F978-3-642-28891-3_30).
- [709] Massimiliano de Leoni. “Adaptive Process Management in Highly Dynamic and Pervasive Scenarios”. In: *Electronic Proceedings in Theoretical Computer Science* 2 (June 2009), pp. 83–97. DOI: 10.4204/eptcs.2.7. URL: <https://doi.org/10.4204%2Feptcs.2.7>.
- [710] Pierre Lescanne. “Mechanizing common knowledge logic using COQ”. In: *Annals of Mathematics and Artificial Intelligence* 48.1-2 (Sept. 2006), pp. 15–43. DOI: 10.1007/s10472-006-9042-1. URL: <https://doi.org/10.1007%2Fs10472-006-9042-1>.
- [711] Alexander Letichevsky et al. “Formal Requirements Capturing using VRS system”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/q6mc. URL: <https://doi.org/10.29007%2Fq6mc>.
- [712] Christopher Leturc and Grégory Bonnet. “Reasoning about manipulation in multi-agent systems”. In: *Journal of Applied Non-Classical Logics* 32.2-3 (July 2022), pp. 89–155. DOI: 10.1080/11663081.2022.2124067. URL: <https://doi.org/10.1080%2F11663081.2022.2124067>.
- [713] Ioana Leuştean, Natalia Moangă, and Traian Florin Şerbănuţă. “A Many-sorted Polyadic Modal Logic”. In: *Fundamenta Informaticae* 173.2-3 (Mar. 2020). Ed. by Jetty Kleijn, Laurenţiu Leuştean, and Dorel Lucanu, pp. 191–215. DOI: 10.3233/fi-2020-1921. URL: <https://doi.org/10.3233%2Ffi-2020-1921>.
- [714] Ioana Leuştean, Natalia Moangă, and Traian Florin Şerbănuţă. “Operational Semantics and Program Verification Using Many-Sorted Hybrid Modal Logic”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 446–476. DOI: 10.1007/978-3-030-29026-9\_25. URL: [https://doi.org/10.1007%2F978-3-030-29026-9\\_25](https://doi.org/10.1007%2F978-3-030-29026-9_25).
- [715] Chong-Zhang Li. “Hilbert’s formalistic method and its development in computer science”. In: *ACM SIGACT News* 43.2 (June 2012), pp. 124–126. DOI: 10.1145/2261417.2261439. URL: <https://doi.org/10.1145%2F2261417.2261439>.



- [716] Ximeng Li et al. “Reasoning About Iteration and Recursion Uniformly Based on Big-Step Semantics”. In: *Dependable Software Engineering. Theories, Tools, and Applications*. Springer International Publishing, 2021, pp. 61–80. DOI: 10.1007/978-3-030-91265-9\_4. URL: [https://doi.org/10.1007/978-3-030-91265-9\\_4](https://doi.org/10.1007/978-3-030-91265-9_4).
- [717] Tatiana Liakh and Alexandra Grvtsova. “Dynamic Verification of Process-Oriented Control Software by the Case of Crossroad Control”. In: *2020 International Russian Automation Conference (RusAutoCon)*. IEEE, Sept. 2020. DOI: 10.1109/rusautocon49822.2020.9208138. URL: <https://doi.org/10.1109/rusautocon49822.2020.9208138>.
- [718] Tatiana Liakh et al. “Four-Component Model for Dynamic Verification of Process-Oriented Control Software for Cyber-Physical Systems”. In: *2019 International Multi-Conference on Engineering, Computer and Information Sciences (SIBIRCON)*. IEEE, Oct. 2019. DOI: 10.1109/sibircon48586.2019.8958127. URL: <https://doi.org/10.1109/sibircon48586.2019.8958127>.
- [719] Andrés Occhipinti Liberman and Rasmus K. Rendsvig. “Dynamic Term-Modal Logic for Epistemic Social Network Dynamics”. In: *Logic, Rationality, and Interaction*. Springer Berlin Heidelberg, 2019, pp. 168–182. DOI: 10.1007/978-3-662-60292-8\_13. URL: [https://doi.org/10.1007/978-3-662-60292-8\\_13](https://doi.org/10.1007/978-3-662-60292-8_13).
- [720] Leonid Libkin, Wim Martens, and Domagoj Vrgoč. “Querying graph databases with XPath”. In: *Proceedings of the 16th International Conference on Database Theory*. ACM, Mar. 2013. DOI: 10.1145/2448496.2448513. URL: <https://doi.org/10.1145/2448496.2448513>.
- [721] Leonid Libkin et al. “TriAL”. In: *ACM Transactions on Database Systems* 43.1 (Mar. 2018), pp. 1–46. DOI: 10.1145/3154385. URL: <https://doi.org/10.1145/3154385>.
- [722] T. de Lima, L. Royakkers, and F. Dignum. “A logic for reasoning about responsibility”. In: *Logic Journal of IGPL* 18.1 (Jan. 2010), pp. 99–117. DOI: 10.1093/jigpal/jzp073. URL: <https://doi.org/10.1093/jigpal/jzp073>.
- [723] Anthony W. Lin and Philipp Rümmer. “Regular Model Checking Revisited”. In: *Model Checking, Synthesis, and Learning*. Springer International Publishing, 2021, pp. 97–114. DOI: 10.1007/978-3-030-91384-7\_6. URL: [https://doi.org/10.1007/978-3-030-91384-7\\_6](https://doi.org/10.1007/978-3-030-91384-7_6).
- [724] Fangzhen Lin. “Translating classes to first-order logic”. In: *Proceedings of the 21st Workshop on Formal Techniques for Java-like Programs*. ACM, July 2019. DOI: 10.1145/3340672.3341120. URL: <https://doi.org/10.1145/3340672.3341120>.
- [725] Marcus Lindner, Jorge Aparicius, and Per Lindgren. “No Panic! Verification of Rust Programs by Symbolic Execution”. In: *2018 IEEE 16th International Conference on Industrial Informatics (INDIN)*. IEEE, July 2018. DOI: 10.1109/indin.2018.8471992. URL: <https://doi.org/10.1109/indin.2018.8471992>.

- [726] Ai Liu and Shaoying Liu. “Enhancing the Capability of Testing-Based Formal Verification by Handling Operations in Software Packages”. In: *IEEE Transactions on Software Engineering* 49.1 (Jan. 2023), pp. 304–324. DOI: 10.1109/tse.2022.3150333. URL: <https://doi.org/10.1109%2Ftse.2022.3150333>.
- [727] Bo Liu et al. “A survey of model-driven techniques and tools for cyber-physical systems”. In: *Frontiers of Information Technology & Electronic Engineering* 21.11 (Nov. 2020), pp. 1567–1590. DOI: 10.1631/fitee.2000311. URL: <https://doi.org/10.1631%2Ffitee.2000311>.
- [728] Tianhai Liu, Michael Nagel, and Mana Taghdiri. “Bounded Program Verification Using an SMT Solver: A Case Study”. In: *2012 IEEE Fifth International Conference on Software Testing, Verification and Validation*. IEEE, Apr. 2012. DOI: 10.1109/icst.2012.90. URL: <https://doi.org/10.1109%2Ficst.2012.90>.
- [729] Tianhai Liu et al. “Computing Exact Loop Bounds for Bounded Program Verification”. In: *Dependable Software Engineering. Theories, Tools, and Applications*. Springer International Publishing, 2017, pp. 147–163. DOI: 10.1007/978-3-319-69483-2\_9. URL: [https://doi.org/10.1007%2F978-3-319-69483-2\\_9](https://doi.org/10.1007%2F978-3-319-69483-2_9).
- [730] Christof Löding, Carsten Lutz, and Olivier Serre. “Propositional dynamic logic with recursive programs”. In: *The Journal of Logic and Algebraic Programming* 73.1-2 (Sept. 2007), pp. 51–69. DOI: 10.1016/j.jlap.2006.11.003. URL: <https://doi.org/10.1016%2Fj.jlap.2006.11.003>.
- [731] E. Lorini et al. “Grounding power on actions and mental attitudes”. In: *Logic Journal of IGPL* 21.3 (Oct. 2011), pp. 311–331. DOI: 10.1093/jigpal/jzr039. URL: <https://doi.org/10.1093%2Fjigpal%2Fjzr039>.
- [732] EMILIANO LORINI. “A Qualitative Theory of Cognitive Attitudes and their Change”. In: *Theory and Practice of Logic Programming* 21.4 (Apr. 2021), pp. 428–458. DOI: 10.1017/s1471068421000053. URL: <https://doi.org/10.1017%2Fs1471068421000053>.
- [733] Emiliano Lorini. “A minimal logic for interactive epistemology”. In: *Synthese* 193.3 (Dec. 2015), pp. 725–755. DOI: 10.1007/s11229-015-0960-5. URL: <https://doi.org/10.1007%2Fs11229-015-0960-5>.
- [734] Emiliano Lorini. “On the Epistemic Foundation for Iterated Weak Dominance: An Analysis in a Logic of Individual and Collective attitudes”. In: *Journal of Philosophical Logic* 42.6 (Sept. 2013), pp. 863–904. DOI: 10.1007/s10992-013-9297-z. URL: <https://doi.org/10.1007%2Fs10992-013-9297-z>.
- [735] Emiliano Lorini and Cristiano Castelfranchi. “Intentional Agents in Defense”. In: *Safety and Security in Multiagent Systems*. Springer Berlin Heidelberg, 2009, pp. 293–307. DOI: 10.1007/978-3-642-04879-1\_20. URL: [https://doi.org/10.1007%2F978-3-642-04879-1\\_20](https://doi.org/10.1007%2F978-3-642-04879-1_20).

- [736] Emiliano Lorini and Robert Demolombe. “From Binary Trust to Graded Trust in Information Sources: A Logical Perspective”. In: *Trust in Agent Societies*. Springer Berlin Heidelberg, 2008, pp. 205–225. DOI: 10.1007/978-3-540-92803-4\_11. URL: [https://doi.org/10.1007%2F978-3-540-92803-4\\_11](https://doi.org/10.1007%2F978-3-540-92803-4_11).
- [737] Emiliano Lorini, Andreas Herzig, and Cristiano Castelfranchi. “Introducing Attempt in a Modal Logic of Intentional Action”. In: *Logics in Artificial Intelligence*. Springer Berlin Heidelberg, 2006, pp. 280–292. DOI: 10.1007/11853886\_24. URL: [https://doi.org/10.1007%2F11853886\\_24](https://doi.org/10.1007%2F11853886_24).
- [738] Dorel Lucanu, Vlad Rusu, and Andrei Arusoae. “A generic framework for symbolic execution: A coinductive approach”. In: *Journal of Symbolic Computation* 80 (May 2017), pp. 125–163. DOI: 10.1016/j.jsc.2016.07.012. URL: <https://doi.org/10.1016%2Fj.jsc.2016.07.012>.
- [739] Paqui Lucio. “A Tutorial on Using Dafny to Construct Verified Software”. In: *Electronic Proceedings in Theoretical Computer Science* 237 (Jan. 2017), pp. 1–19. DOI: 10.4204/eptcs.237.1. URL: <https://doi.org/10.4204%2Feptcs.237.1>.
- [740] Matt Luckcuck, Andy Wellings, and Ana Cavalcanti. “Safety-Critical Java: level 2 in practice”. In: *Concurrency and Computation: Practice and Experience* 29.6 (Sept. 2016), e3951. DOI: 10.1002/cpe.3951. URL: <https://doi.org/10.1002%2Fcpe.3951>.
- [741] Simon Lunel, Benoit Boyer, and Jean-Pierre Talpin. “Compositional Proofs in Differential Dynamic Logic dL”. In: *2017 17th International Conference on Application of Concurrency to System Design (ACSD)*. IEEE, June 2017. DOI: 10.1109/acsd.2017.16. URL: <https://doi.org/10.1109%2Facsd.2017.16>.
- [742] Alexandru-Ioan Lungu and Dorel Lucanu. “Supporting Algorithm Analysis with Symbolic Execution in Alk”. In: *Theoretical Aspects of Software Engineering*. Springer International Publishing, 2022, pp. 406–423. DOI: 10.1007/978-3-031-10363-6\_27. URL: [https://doi.org/10.1007%2F978-3-031-10363-6\\_27](https://doi.org/10.1007%2F978-3-031-10363-6_27).
- [743] Linghui Luo et al. “TaintBench: Automatic real-world malware benchmarking of Android taint analyses”. In: *Empirical Software Engineering* 27.1 (Oct. 2021). DOI: 10.1007/s10664-021-10013-5. URL: <https://doi.org/10.1007%2Fs10664-021-10013-5>.
- [744] Ziqing Luo and Stephen F. Siegel. “Symbolic Execution and Deductive Verification Approaches to VerifyThis 2017 Challenges”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Verification*. Springer International Publishing, 2018, pp. 160–178. DOI: 10.1007/978-3-030-03421-4\_12. URL: [https://doi.org/10.1007%2F978-3-030-03421-4\\_12](https://doi.org/10.1007%2F978-3-030-03421-4_12).

- [745] Bjørnar Luteberget et al. “Participatory Verification of Railway Infrastructure by Representing Regulations in RailCNL”. In: *Software Engineering and Formal Methods*. Springer International Publishing, 2017, pp. 87–103. DOI: 10.1007/978-3-319-66197-1\_6. URL: [https://doi.org/10.1007%2F978-3-319-66197-1\\_6](https://doi.org/10.1007%2F978-3-319-66197-1_6).
- [746] Carsten Lutz and Dirk Walther. “PDL with negation of atomic programs”. In: *Journal of Applied Non-Classical Logics* 15.2 (Jan. 2005), pp. 189–213. DOI: 10.3166/janc1.15.189-213. URL: <https://doi.org/10.3166%2Fjanc1.15.189-213>.
- [747] Carsten Lutz, Frank Wolter, and Michael Zakharyashev. “Temporal Description Logics: A Survey”. In: *2008 15th International Symposium on Temporal Representation and Reasoning*. IEEE, June 2008. DOI: 10.1109/time.2008.14. URL: <https://doi.org/10.1109%2Ftime.2008.14>.
- [748] Qin Ma, Monika Kaczmarek-Heß, and Sybren de Kinderen. “Validation and verification in domain-specific modeling method engineering: an integrated life-cycle view”. In: *Software and Systems Modeling* 22.2 (Oct. 2022), pp. 647–666. DOI: 10.1007/s10270-022-01056-3. URL: <https://doi.org/10.1007%2Fs10270-022-01056-3>.
- [749] Vitor Machado and Mario Benevides. “Populational Announcement Logic (PPAL)”. In: *Electronic Notes in Theoretical Computer Science* 348 (Mar. 2020), pp. 105–123. DOI: 10.1016/j.entcs.2020.02.007. URL: <https://doi.org/10.1016%2Fj.entcs.2020.02.007>.
- [750] Alexandre Madeira et al. “A Dynamic Logic for Every Season”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2015, pp. 130–145. DOI: 10.1007/978-3-319-15075-8\_9. URL: [https://doi.org/10.1007%2F978-3-319-15075-8\\_9](https://doi.org/10.1007%2F978-3-319-15075-8_9).
- [751] Alexandre Madeira et al. “Dynamic Logic with Binders and Its Application to the Development of Reactive Systems”. In: *Theoretical Aspects of Computing – ICTAC 2016*. Springer International Publishing, 2016, pp. 422–440. DOI: 10.1007/978-3-319-46750-4\_24. URL: [https://doi.org/10.1007%2F978-3-319-46750-4\\_24](https://doi.org/10.1007%2F978-3-319-46750-4_24).
- [752] Séverine Maingaud et al. “Specifying Imperative ML-Like Programs Using Dynamic Logic”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2011, pp. 122–137. DOI: 10.1007/978-3-642-18070-5\_9. URL: [https://doi.org/10.1007%2F978-3-642-18070-5\\_9](https://doi.org/10.1007%2F978-3-642-18070-5_9).
- [753] E.M. Makarov. “Dynamic Separation Logic and its Use in Education”. en. In: ” - ” 3 2020 (2020), Pages 543–550. DOI: 10.25559/SITITO.16.202003.543-550. URL: <http://sitito.cs.msu.ru/index.php/SITITO/article/view/696>.
- [754] Gregorz Malinowski. “Many-Valued Logic and its Philosophy”. In: *The Many Valued and Nonmonotonic Turn in Logic*. Elsevier, 2007, pp. 13–94. DOI: 10.1016/s1874-5857(07)80004-5. URL: <https://doi.org/10.1016%2Fs1874-5857%2807%2980004-5>.

- [755] Konstantinos Mamouras. “On the Hoare theory of monadic recursion schemes”. In: *Proceedings of the Joint Meeting of the Twenty-Third EACSL Annual Conference on Computer Science Logic (CSL) and the Twenty-Ninth Annual ACM/IEEE Symposium on Logic in Computer Science (LICS)*. ACM, July 2014. DOI: 10.1145/2603088.2603157. URL: <https://doi.org/10.1145/2603088.2603157>.
- [756] Konstantinos Mamouras. “The Hoare Logic of Deterministic and Non-deterministic Monadic Recursion Schemes”. In: *ACM Transactions on Computational Logic* 17.2 (Jan. 2016), pp. 1–30. DOI: 10.1145/2835491. URL: <https://doi.org/10.1145/2835491>.
- [757] SÉRGIO MARCELINO and PEDRO RESENDE. “An algebraic generalization of Kripke structures”. In: *Mathematical Proceedings of the Cambridge Philosophical Society* 145.3 (Nov. 2008), pp. 549–577. DOI: 10.1017/s0305004108001667. URL: <https://doi.org/10.1017/S0305004108001667>.
- [758] C. Marche and N. Rousset. “Verification of JAVA CARD Applets Behavior with Respect to Transactions and Card Tears”. In: *Fourth IEEE International Conference on Software Engineering and Formal Methods (SEFM’06)*. IEEE. DOI: 10.1109/sefm.2006.38. URL: <https://doi.org/10.1109/2Fsefm.2006.38>.
- [759] Radu Mardare. “Observing Distributed Computation. A Dynamic-Epistemic Approach”. In: *Algebra and Coalgebra in Computer Science*. Springer Berlin Heidelberg, 2007, pp. 379–393. DOI: 10.1007/978-3-540-73859-6\_26. URL: [https://doi.org/10.1007/2F978-3-540-73859-6\\_26](https://doi.org/10.1007/2F978-3-540-73859-6_26).
- [760] Radu Mardare and Alberto Policriti. “A Complete Axiomatic System for a Process-Based Spatial Logic”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2008, pp. 491–502. DOI: 10.1007/978-3-540-85238-4\_40. URL: [https://doi.org/10.1007/2F978-3-540-85238-4\\_40](https://doi.org/10.1007/2F978-3-540-85238-4_40).
- [761] Tiziana Margaria and Bernhard Steffen, eds. *Leveraging Applications of Formal Methods, Verification and Validation. Technologies for Mastering Change*. Springer Berlin Heidelberg, 2012. DOI: 10.1007/978-3-642-34026-0. URL: <https://doi.org/10.1007/2F978-3-642-34026-0>.
- [762] Tiziana Margaria and Bernhard Steffen, eds. *Leveraging Applications of Formal Methods, Verification and Validation. Verification*. Springer International Publishing, 2018. DOI: 10.1007/978-3-030-03421-4. URL: <https://doi.org/10.1007/2F978-3-030-03421-4>.
- [763] Julio Mariño et al. “Synthesis of verifiable concurrent Java components from formal models”. In: *Software & Systems Modeling* 18.1 (Feb. 2017), pp. 71–105. DOI: 10.1007/s10270-017-0581-1. URL: <https://doi.org/10.1007/2Fs10270-017-0581-1>.
- [764] “Marking Time”. In: *Mathematics Elsewhere*. Princeton University Press, pp. 39–58. DOI: 10.2307/j.ctv39x5q7.6. URL: <https://doi.org/10.2307/2Fj.ctv39x5q7.6>.

- [765] Slaviša Marković and Thomas Baar. “Refactoring OCL annotated UML class diagrams”. In: *Software & Systems Modeling* 7.1 (May 2007), pp. 25–47. DOI: 10.1007/s10270-007-0056-x. URL: <https://doi.org/10.1007/2Fs10270-007-0056-x>.
- [766] Markovic, Slavisa. “Model refactoring using transformations”. en. In: (2007). DOI: 10.5075/EPFL-THESIS-4031. URL: <http://infoscience.epfl.ch/record/115070>.
- [767] Diego Marmosler and Achim D. Brucker. “A Denotational Semantics of Solidity in Isabelle/HOL”. In: *Software Engineering and Formal Methods*. Springer International Publishing, 2021, pp. 403–422. DOI: 10.1007/978-3-030-92124-8\_23. URL: [https://doi.org/10.1007/2F978-3-030-92124-8\\_23](https://doi.org/10.1007/2F978-3-030-92124-8_23).
- [768] Nicolas Marti, Reynald Affeldt, and Akinori Yonezawa. “Formal Verification of the Heap Manager of an Operating System Using Separation Logic”. In: *Formal Methods and Software Engineering*. Springer Berlin Heidelberg, 2006, pp. 400–419. DOI: 10.1007/11901433\_22. URL: [https://doi.org/10.1007/2F11901433\\_22](https://doi.org/10.1007/2F11901433_22).
- [769] Enrique Martin-Martin et al. “Verification of the ROS NavFn planner using executable specification languages”. In: *Journal of Logical and Algebraic Methods in Programming* 132 (Apr. 2023), p. 100860. DOI: 10.1016/j.jlamp.2023.100860. URL: <https://doi.org/10.1016/2Fj.jlamp.2023.100860>.
- [770] Maarten Marx. “Conditional XPath”. In: *ACM Transactions on Database Systems* 30.4 (Dec. 2005), pp. 929–959. DOI: 10.1145/1114244.1114247. URL: <https://doi.org/10.1145/2F1114244.1114247>.
- [771] Maarten Marx and Yde Venema. “Local Variations on a Loose Theme: Modal Logic and Decidability”. In: *Finite Model Theory and Its Applications*. Springer Berlin Heidelberg, pp. 371–429. DOI: 10.1007/3-540-68804-8\_7. URL: [https://doi.org/10.1007/2F3-540-68804-8\\_7](https://doi.org/10.1007/2F3-540-68804-8_7).
- [772] Ian A. Mason and Carolyn L. Talcott. “Feferman-Landin Logic”. In: *Reflections on the Foundations of Mathematics*. Cambridge University Press, Mar. 2017, pp. 293–328. DOI: 10.1017/9781316755983.015. URL: <https://doi.org/10.1017/2F9781316755983.015>.
- [773] Radu Mateescu and Sylvain Rampacek. “Formal Modeling and Discrete-Time Analysis of BPEL Web Services”. In: *Lecture Notes in Business Information Processing*. Springer Berlin Heidelberg, 2008, pp. 179–193. DOI: 10.1007/978-3-540-68644-6\_13. URL: [https://doi.org/10.1007/2F978-3-540-68644-6\\_13](https://doi.org/10.1007/2F978-3-540-68644-6_13).
- [774] Fonenantsoa Maurica, David R. Cok, and Julien Signoles. “Runtime Assertion Checking and Static Verification: Collaborative Partners”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Verification*. Springer International Publishing, 2018, pp. 75–91. DOI: 10.1007/978-3-030-03421-4\_6. URL: [https://doi.org/10.1007/2F978-3-030-03421-4\\_6](https://doi.org/10.1007/2F978-3-030-03421-4_6).

- [775] Malte Mauritz. “Engineering of safe autonomous vehicles through seamless integration of system development and system operation”. en. PhD thesis. 2020. DOI: 10.21268/20200123-0. URL: [https://dokumente.ub.tu-clausthal.de/receive/clausthal\\_mods\\_00001103](https://dokumente.ub.tu-clausthal.de/receive/clausthal_mods_00001103).
- [776] N. R. McConnell, R. G. McDougall, and T. Stokes. “On base radical and semisimple classes defined by class operators”. In: *Acta Mathematica Hungarica* 138.4 (Aug. 2012), pp. 307–328. DOI: 10.1007/s10474-012-0249-9. URL: <https://doi.org/10.1007%2Fs10474-012-0249-9>.
- [777] Hannes Mehnert. “Kopitiam: Modular Incremental Interactive Full Functional Static Verification of Java Code”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2011, pp. 518–524. DOI: 10.1007/978-3-642-20398-5\_42. URL: [https://doi.org/10.1007%2F978-3-642-20398-5\\_42](https://doi.org/10.1007%2F978-3-642-20398-5_42).
- [778] Jens Meinicke et al. “Developing an Elevator with Conditional Compilation”. In: *Mastering Software Variability with FeatureIDE*. Springer International Publishing, 2017, pp. 105–121. DOI: 10.1007/978-3-319-61443-4\_10. URL: [https://doi.org/10.1007%2F978-3-319-61443-4\\_10](https://doi.org/10.1007%2F978-3-319-61443-4_10).
- [779] Roy Mennicke. “Propositional Dynamic Logic with Converse and Repeat for Message-Passing Systems”. In: *Logical Methods in Computer Science* Volume 9, Issue 2 (June 2013). DOI: 10.2168/lmcs-9(2:12)2013. URL: <https://doi.org/10.2168%2Flmcs-9%282%3A12%292013>.
- [780] Salvador Merino et al. “Smart Sensorization Using Propositional Dynamic Logic”. In: *Sensors* 22.10 (May 2022), p. 3899. DOI: 10.3390/s22103899. URL: <https://doi.org/10.3390%2Fs22103899>.
- [781] Mohamed Messabihi, Pascal André, and Christian Attiogbé. “Multilevel Contracts for Trusted Components”. In: *Electronic Proceedings in Theoretical Computer Science* 37 (Oct. 2010), pp. 71–85. DOI: 10.4204/eptcs.37.6. URL: <https://doi.org/10.4204%2Feptcs.37.6>.
- [782] Farid Meziane, Nikos Athanasakis, and Sophia Ananiadou. “Generating Natural Language specifications from UML class diagrams”. In: *Requirements Engineering* 13.1 (Sept. 2007), pp. 1–18. DOI: 10.1007/s00766-007-0054-0. URL: <https://doi.org/10.1007%2Fs00766-007-0054-0>.
- [783] Tim Miller and Peter McBurney. “Annotation and Matching of First-Class Agent Interaction Protocols”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2009, pp. 141–158. DOI: 10.1007/978-3-642-00207-6\_9. URL: [https://doi.org/10.1007%2F978-3-642-00207-6\\_9](https://doi.org/10.1007%2F978-3-642-00207-6_9).
- [784] Tim Miller and Peter McBurney. “PROPOSITIONAL DYNAMIC LOGIC FOR REASONING ABOUT FIRST-CLASS AGENT INTERACTION PROTOCOLS”. In: *Computational Intelligence* 27.3 (Aug. 2011), pp. 422–457. DOI: 10.1111/j.1467-8640.2011.00387.x. URL: <https://doi.org/10.1111%2Fj.1467-8640.2011.00387.x>.

- [785] Tim Miller and Peter McBurney. “Using Constraints and Process Algebra for Specification of First-Class Agent Interaction Protocols”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, pp. 245–264. DOI: 10.1007/978-3-540-75524-1\_14. URL: [https://doi.org/10.1007%2F978-3-540-75524-1\\_14](https://doi.org/10.1007%2F978-3-540-75524-1_14).
- [786] Marc Miltenberger et al. “Benchmarking the Benchmarks”. In: *Proceedings of the ACM Asia Conference on Computer and Communications Security*. ACM, July 2023. DOI: 10.1145/3579856.3582830. URL: <https://doi.org/10.1145%2F3579856.3582830>.
- [787] Stefan Mitsch. “Implicit and Explicit Proof Management in KeYmaera X”. In: *Electronic Proceedings in Theoretical Computer Science* 338 (Aug. 2021), pp. 53–67. DOI: 10.4204/eptcs.338.8. URL: <https://doi.org/10.4204%2Feptcs.338.8>.
- [788] Stefan Mitsch, Grant Olney Passmore, and André Platzer. “Collaborative Verification-Driven Engineering of Hybrid Systems”. In: *Mathematics in Computer Science* 8.1 (Mar. 2014), pp. 71–97. DOI: 10.1007/s11786-014-0176-y. URL: <https://doi.org/10.1007%2Fs11786-014-0176-y>.
- [789] Stefan Mitsch and André Platzer. “A Retrospective on Developing Hybrid System Provers in the KeYmaera Family”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 21–64. DOI: 10.1007/978-3-030-64354-6\_2. URL: [https://doi.org/10.1007%2F978-3-030-64354-6\\_2](https://doi.org/10.1007%2F978-3-030-64354-6_2).
- [790] Stefan Mitsch and André Platzer. “The KeYmaera X Proof IDE - Concepts on Usability in Hybrid Systems Theorem Proving”. In: *Electronic Proceedings in Theoretical Computer Science* 240 (Jan. 2017), pp. 67–81. DOI: 10.4204/eptcs.240.5. URL: <https://doi.org/10.4204%2Feptcs.240.5>.
- [791] Natalia Moanga. “Fischer-Ladner Closure for Many-Sorted Modal Logic with Application for Operational Semantics”. In: *2020 22nd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)*. IEEE, Sept. 2020. DOI: 10.1109/synasc51798.2020.00022. URL: <https://doi.org/10.1109%2Fsynasc51798.2020.00022>.
- [792] “Modal Semirings with Operators for Knowledge Representation”. In: *Proceedings of the 5th International Conference on Agents and Artificial Intelligence*. SciTePress - Science, 2013. DOI: 10.5220/0004181001970202. URL: <https://doi.org/10.5220%2F0004181001970202>.
- [793] Nina Moebius et al. “Incremental development of large, secure smart card applications”. In: *Proceedings of the Workshop on Model-Driven Security*. ACM, Oct. 2012. DOI: 10.1145/2422498.2422507. URL: <https://doi.org/10.1145%2F2422498.2422507>.
- [794] Anshuman Mohan, Wei Xiang Leow, and Aquinas Hobor. “Functional Correctness of C Implementations of Dijkstra’s, Kruskal’s, and Prim’s Algorithms”. In: *Computer Aided Verification*. Springer International Publishing, 2021, pp. 801–826. DOI: 10.1007/978-3-030-81688-9\_37. URL: [https://doi.org/10.1007%2F978-3-030-81688-9\\_37](https://doi.org/10.1007%2F978-3-030-81688-9_37).



- [795] Maarten de Mol, Arend Rensink, and James J. Hunt. “Graph Transforming Java Data”. In: *Fundamental Approaches to Software Engineering*. Springer Berlin Heidelberg, 2012, pp. 209–223. DOI: 10.1007/978-3-642-28872-2\_15. URL: [https://doi.org/10.1007%2F978-3-642-28872-2\\_15](https://doi.org/10.1007%2F978-3-642-28872-2_15).
- [796] Moisés Salvador Meza Moreno and Björn Bringert. “Interactive Multilingual Web Applications with Grammatical Framework”. In: *Advances in Natural Language Processing*. Springer Berlin Heidelberg, 2008, pp. 336–347. DOI: 10.1007/978-3-540-85287-2\_32. URL: [https://doi.org/10.1007%2F978-3-540-85287-2\\_32](https://doi.org/10.1007%2F978-3-540-85287-2_32).
- [797] Mariano M. Moscato, Carlos G. Lopez Pombo, and Marcelo F. Frias. “Dynamite”. In: *ACM Transactions on Software Engineering and Methodology* 23.2 (Mar. 2014), pp. 1–37. DOI: 10.1145/2544136. URL: <https://doi.org/10.1145%2F2544136>.
- [798] Wojciech Mostowski. “A Case Study in Formal Verification Using Multiple Explicit Heaps”. In: *Formal Techniques for Distributed Systems*. Springer Berlin Heidelberg, 2013, pp. 20–34. DOI: 10.1007/978-3-642-38592-6\_3. URL: [https://doi.org/10.1007%2F978-3-642-38592-6\\_3](https://doi.org/10.1007%2F978-3-642-38592-6_3).
- [799] Wojciech Mostowski. “Formal Reasoning About Non-atomic Java Card Methods in Dynamic Logic”. In: *FM 2006: Formal Methods*. Springer Berlin Heidelberg, 2006, pp. 444–459. DOI: 10.1007/11813040\_30. URL: [https://doi.org/10.1007%2F11813040\\_30](https://doi.org/10.1007%2F11813040_30).
- [800] Wojciech Mostowski. “Formalisation and Verification of Java Card Security Properties in Dynamic Logic”. In: *Fundamental Approaches to Software Engineering*. Springer Berlin Heidelberg, 2005, pp. 357–371. DOI: 10.1007/978-3-540-31984-9\_27. URL: [https://doi.org/10.1007%2F978-3-540-31984-9\\_27](https://doi.org/10.1007%2F978-3-540-31984-9_27).
- [801] Wojciech Mostowski. “From Explicit to Implicit Dynamic Frames in Concurrent Reasoning for Java”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 177–203. DOI: 10.1007/978-3-030-64354-6\_7. URL: [https://doi.org/10.1007%2F978-3-030-64354-6\\_7](https://doi.org/10.1007%2F978-3-030-64354-6_7).
- [802] Wojciech Mostowski. “Implications of Deductive Verification on Research Quality”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 370–381. DOI: 10.1007/978-3-031-08166-8\_17. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_17](https://doi.org/10.1007%2F978-3-031-08166-8_17).
- [803] Wojciech Mostowski and Erik Poll. “Midlet Navigation Graphs in JML”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2011, pp. 17–32. DOI: 10.1007/978-3-642-19829-8\_2. URL: [https://doi.org/10.1007%2F978-3-642-19829-8\\_2](https://doi.org/10.1007%2F978-3-642-19829-8_2).
- [804] Wojciech Mostowski and Mattias Ulbrich. “Dynamic Dispatch for Method Contracts Through Abstract Predicates”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2016, pp. 238–267. DOI: 10.1007/978-3-319-46969-0\_7. URL: [https://doi.org/10.1007%2F978-3-319-46969-0\\_7](https://doi.org/10.1007%2F978-3-319-46969-0_7).

- [805] Wojciech Mostowski and Mattias Ulbrich. “Dynamic dispatch for method contracts through abstract predicates”. In: *Proceedings of the 14th International Conference on Modularity*. ACM, Mar. 2015. DOI: 10.1145/2724525.2724574. URL: <https://doi.org/10.1145/2724525.2724574>.
- [806] B. Moszkowski. “Using Temporal Logic to Analyse Temporal Logic: A Hierarchical Approach Based on Intervals”. In: *Journal of Logic and Computation* 17.2 (Apr. 2007), pp. 333–409. DOI: 10.1093/logcom/exm006. URL: <https://doi.org/10.1093/logcom/exm006>.
- [807] Ben Moszkowski. “A Complete Axiom System for Propositional Interval Temporal Logic with Infinite Time”. In: *Logical Methods in Computer Science* Volume 8, Issue 3 (Aug. 2012). DOI: 10.2168/lmcs-8(3:10)2012. URL: [https://doi.org/10.2168/lmcs-8\(3:10\)2012](https://doi.org/10.2168/lmcs-8(3:10)2012).
- [808] João Mota, Marco Giunti, and António Ravara. *On using VeriFast, VerCors, Plural, and KeY to check object usage*. 2022. DOI: 10.48550/ARXIV.2209.05136. URL: <https://arxiv.org/abs/2209.05136>.
- [809] Yannick Moy. “How the Analyzer can Help the User Help the Analyzer”. In: *Electronic Proceedings in Theoretical Computer Science* 338 (Aug. 2021), pp. 97–104. DOI: 10.4204/eptcs.338.12. URL: <https://doi.org/10.4204/eptcs.338.12>.
- [810] Henk Mulder, Marieke Huisman, and Sebastiaan Joosten. “Improving Performance of the VerCors Program Verifier”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 65–82. DOI: 10.1007/978-3-030-64354-6\_3. URL: [https://doi.org/10.1007/978-3-030-64354-6\\_3](https://doi.org/10.1007/978-3-030-64354-6_3).
- [811] Carlos Muller, Manuel Resinas, and Antonio Ruiz-Cortes. “Automated Analysis of Conflicts in WS-Agreement”. In: *IEEE Transactions on Services Computing* 7.4 (Oct. 2014), pp. 530–544. DOI: 10.1109/tsc.2013.9. URL: <https://doi.org/10.1109/tsc.2013.9>.
- [812] Peter Müller, Arnd Poetzsch-Heffter, and Gary T. Leavens. “Modular invariants for layered object structures”. In: *Science of Computer Programming* 62.3 (Oct. 2006), pp. 253–286. DOI: 10.1016/j.scico.2006.03.001. URL: <https://doi.org/10.1016/j.scico.2006.03.001>.
- [813] John Mullins and Raveca Oarga. “Model Checking of Extended OCL Constraints on UML Models in SOCLe”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2007, pp. 59–75. DOI: 10.1007/978-3-540-72952-5\_4. URL: [https://doi.org/10.1007/978-3-540-72952-5\\_4](https://doi.org/10.1007/978-3-540-72952-5_4).
- [814] E. Muñoz-Velasco, A. Burrieza, and M. Ojeda-Aciego. “A logic framework for reasoning with movement based on fuzzy qualitative representation”. In: *Fuzzy Sets and Systems* 242 (May 2014), pp. 114–131. DOI: 10.1016/j.fss.2013.07.014. URL: <https://doi.org/10.1016/j.fss.2013.07.014>.

- [815] Oleg Mürk, Daniel Larsson, and Reiner Hähnle. “KeY-C: A Tool for Verification of C Programs”. In: *Automated Deduction – CADE-21*. Springer Berlin Heidelberg, pp. 385–390. DOI: 10.1007/978-3-540-73595-3\_27. URL: [https://doi.org/10.1007%2F978-3-540-73595-3\\_27](https://doi.org/10.1007%2F978-3-540-73595-3_27).
- [816] Hans-Hellmut Nagel et al. “Die 80er Jahre”. In: *Informatikforschung in Deutschland*. Springer Berlin Heidelberg, 2008, pp. 151–202. DOI: 10.1007/978-3-540-76550-9\_6. URL: [https://doi.org/10.1007%2F978-3-540-76550-9\\_6](https://doi.org/10.1007%2F978-3-540-76550-9_6).
- [817] Yoshiki Nakamura. *On the Finite Variable-Occurrence Fragment of the Calculus of Relations with Bounded Dot-Dagger Alternation*. 2023. DOI: 10.48550/ARXIV.2307.05046. URL: <https://arxiv.org/abs/2307.05046>.
- [818] Stanislas Nanchen and Robert F. Stärk. “A logic for secure memory access of abstract state machines”. In: *Theoretical Computer Science* 336.2-3 (May 2005), pp. 343–365. DOI: 10.1016/j.tcs.2004.11.011. URL: <https://doi.org/10.1016%2Fj.tcs.2004.11.011>.
- [819] Stanislas Nanchen and Robert F. Stärk. “A Security Logic for Abstract State Machines”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2004, pp. 169–185. DOI: 10.1007/978-3-540-24773-9\_13. URL: [https://doi.org/10.1007%2F978-3-540-24773-9\\_13](https://doi.org/10.1007%2F978-3-540-24773-9_13).
- [820] Nanchen, Stanislas et al. *The ASMKeY theorem prover*. en. Tech. rep. 2004. DOI: 10.3929/ETHZ-A-006733218. URL: <http://hdl.handle.net/20.500.11850/69807>.
- [821] Muhammad Nassar and Geoff Sutcliffe. “Automated Theorem Proving using the TPTP Process Instruction Language”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/f997. URL: <https://doi.org/10.29007%2Ff997>.
- [822] David A. Naumann. “Thirty-Seven Years of Relational Hoare Logic: Remarks on Its Principles and History”. In: *Leveraging Applications of Formal Methods, Verification and Validation: Engineering Principles*. Springer International Publishing, 2020, pp. 93–116. DOI: 10.1007/978-3-030-61470-6\_7. URL: [https://doi.org/10.1007%2F978-3-030-61470-6\\_7](https://doi.org/10.1007%2F978-3-030-61470-6_7).
- [823] Nico Naus et al. “Low-Level Reachability Analysis Based on Formal Logic”. In: *Tests and Proofs*. Springer Nature Switzerland, 2023, pp. 21–39. DOI: 10.1007/978-3-031-38828-6\_2. URL: [https://doi.org/10.1007%2F978-3-031-38828-6\\_2](https://doi.org/10.1007%2F978-3-031-38828-6_2).
- [824] Zeinab Nehaï and François Bobot. “Deductive Proof of Industrial Smart Contracts Using Why3”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 299–311. DOI: 10.1007/978-3-030-54994-7\_22. URL: [https://doi.org/10.1007%2F978-3-030-54994-7\\_22](https://doi.org/10.1007%2F978-3-030-54994-7_22).

- [825] Lina Nemuraite, Lina Ceponiene, and Gediminas Vedrickas. “Representation of Business Rules in UML&OCL Models for Developing Information Systems”. In: *Lecture Notes in Business Information Processing*. Springer Berlin Heidelberg, 2008, pp. 182–196. DOI: 10.1007/978-3-540-89218-2\_14. URL: [https://doi.org/10.1007%2F978-3-540-89218-2\\_14](https://doi.org/10.1007%2F978-3-540-89218-2_14).
- [826] Linh Anh Nguyen. “ExpTime Tableaux with Global Caching for Graded Propositional Dynamic Logic”. In: *Fundamenta Informaticae* 147.2-3 (Nov. 2016). Ed. by Ludwik Czaja, Wojciech Penczek, and Krzysztof Stencel, pp. 261–288. DOI: 10.3233/fi-2016-1408. URL: <https://doi.org/10.3233%2Ffi-2016-1408>.
- [827] Linh Anh Nguyen. “Horn Knowledge Bases in Regular Description Logics with PTIME Data Complexity”. In: *Fundamenta Informaticae* 104.4 (2010), pp. 349–384. DOI: 10.3233/fi-2010-353. URL: <https://doi.org/10.3233%2Ffi-2010-353>.
- [828] Linh Anh Nguyen and Ngoc-Thanh Nguyen. “An expressive and tractable rule-based description language”. In: *Enterprise Information Systems* 13.7-8 (July 2019), pp. 1069–1093. DOI: 10.1080/17517575.2019.1636143. URL: <https://doi.org/10.1080%2F17517575.2019.1636143>.
- [829] Linh Anh Nguyen and Andrzej Szalas. “ExpTime Tableau Decision Procedures for Regular Grammar Logics with Converse”. In: *Studia Logica* 98.3 (Aug. 2011), pp. 387–428. DOI: 10.1007/s11225-011-9341-3. URL: <https://doi.org/10.1007%2Fs11225-011-9341-3>.
- [830] Vu Hoang Nguyen. “A Deontic Analysis of Inter-Organizational Control Requirements”. In: *SSRN Electronic Journal* (2008). DOI: 10.2139/ssrn.2051695. URL: <https://doi.org/10.2139%2Fssrn.2051695>.
- [831] Matthias Nickles, Felix Fischer, and Gerhard Weiss. “Communication Attitudes: A Formal Approach to Ostensible Intentions, and Individual and Group Opinions”. In: *Electronic Notes in Theoretical Computer Science* 157.4 (May 2006), pp. 95–115. DOI: 10.1016/j.entcs.2006.02.015. URL: <https://doi.org/10.1016%2Fj.entcs.2006.02.015>.
- [832] Joachim Niehren, Tim Priesnitz, and Zhendong Su. “Complexity of Subtype Satisfiability over Posets”. In: *Programming Languages and Systems*. Springer Berlin Heidelberg, 2005, pp. 357–373. DOI: 10.1007/978-3-540-31987-0\_25. URL: [https://doi.org/10.1007%2F978-3-540-31987-0\\_25](https://doi.org/10.1007%2F978-3-540-31987-0_25).
- [833] Philipp Niemann et al. “Analyzing Frame Conditions in UML/OCL Models - Consistency Equivalence and Independence”. In: *Proceedings of the 6th International Conference on Model-Driven Engineering and Software Development*. SCITEPRESS - Science and Technology Publications, 2018. DOI: 10.5220/0006602301390151. URL: <https://doi.org/10.5220%2F0006602301390151>.

- [834] Philipp Niemann et al. “Generation and Validation of Frame Conditions in Formal Models”. In: *Communications in Computer and Information Science*. Springer International Publishing, 2019, pp. 259–283. DOI: 10.1007/978-3-030-11030-7\_12. URL: [https://doi.org/10.1007/978-3-030-11030-7\\_12](https://doi.org/10.1007/978-3-030-11030-7_12).
- [835] Amirfarhad Nilizadeh, Gary T. Leavens, and Corina S. Păsăreanu. “Using a Guided Fuzzer and Preconditions to Achieve Branch Coverage with Valid Inputs”. In: *Tests and Proofs*. Springer International Publishing, 2021, pp. 72–84. DOI: 10.1007/978-3-030-79379-1\_5. URL: [https://doi.org/10.1007/978-3-030-79379-1\\_5](https://doi.org/10.1007/978-3-030-79379-1_5).
- [836] Amirfarhad Nilizadeh et al. “Generating counterexamples in the form of unit tests from hoare-style verification attempts”. In: *Proceedings of the IEEE/ACM 10th International Conference on Formal Methods in Software Engineering*. ACM, May 2022. DOI: 10.1145/3524482.3527656. URL: <https://doi.org/10.1145/3524482.3527656>.
- [837] Amirfarhad Nilizadeh et al. “JMLKelinci: Detecting Semantic Bugs and Covering Branches with Valid Inputs using Coverage-Guided Fuzzing and Runtime Assertion Checking”. In: *Formal Aspects of Computing* (Aug. 2023). DOI: 10.1145/3607538. URL: <https://doi.org/10.1145/3607538>.
- [838] Tobias Nipkow, Manuel Eberl, and Maximilian P. L. Haslbeck. “Verified Textbook Algorithms”. In: *Automated Technology for Verification and Analysis*. Springer International Publishing, 2020, pp. 25–53. DOI: 10.1007/978-3-030-59152-6\_2. URL: [https://doi.org/10.1007/978-3-030-59152-6\\_2](https://doi.org/10.1007/978-3-030-59152-6_2).
- [839] Ligia Nistor et al. “Object Propositions”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2014, pp. 497–513. DOI: 10.1007/978-3-319-06410-9\_34. URL: [https://doi.org/10.1007/978-3-319-06410-9\\_34](https://doi.org/10.1007/978-3-319-06410-9_34).
- [840] Antonio Di Nola, Revaz Grigolia, and Gaetano Vitale. “Epistemic Łukasiewicz logic of partial knowledge”. In: *Soft Computing* 26.19 (July 2022), pp. 9823–9830. DOI: 10.1007/s00500-022-07281-8. URL: <https://doi.org/10.1007/s00500-022-07281-8>.
- [841] Peter W. O’Hearn. “Incorrectness logic”. In: *Proceedings of the ACM on Programming Languages* 4.POPL (Dec. 2019), pp. 1–32. DOI: 10.1145/3371078. URL: <https://doi.org/10.1145/3371078>.
- [842] Greg O’Keefe. “Dynamic Logic Semantics for UML Consistency”. In: *Model Driven Architecture – Foundations and Applications*. Springer Berlin Heidelberg, 2006, pp. 113–127. DOI: 10.1007/11787044\_10. URL: [https://doi.org/10.1007/11787044\\_10](https://doi.org/10.1007/11787044_10).
- [843] Greg O’Keefe. *The Meaning of UML Models*. en. 2010. DOI: 10.25911/5D7A2CA14572A. URL: <https://openresearch-repository.anu.edu.au/handle/1885/49319>.

- [844] Audrey Occello, Anne-Marie Dery-Pinna, and Michel Riveill. “Validation and Verification of an UML/OCL Model with USE and B: Case Study and Lessons Learnt”. In: *2008 IEEE International Conference on Software Testing Verification and Validation Workshop*. IEEE, 2008. DOI: 10.1109/icstw.2008.53. URL: <https://doi.org/10.1109/2Ficstw.2008.53>.
- [845] Kozo OKANO et al. “Consistency Checking between Java Equals and hashCode Methods Using Software Analysis Workbench”. In: *IEICE Transactions on Information and Systems* E102.D.8 (Aug. 2019), pp. 1498–1505. DOI: 10.1587/transinf.2018edp7254. URL: <https://doi.org/10.1587/2Ftransinf.2018edp7254>.
- [846] L. Ol’khovich and D. V. Koznov. “OCL-Based Automated Validation Method for UML Specifications”. In: *Programming and Computer Software* 29.6 (Nov. 2003), pp. 323–327. DOI: 10.1023/b:pacs.00000004132.42846.11. URL: <https://doi.org/10.1023/2Fb%3Apacs.00000004132.42846.11>.
- [847] Ernst-Rüdiger Olderog and Reinhard Wilhelm. “Turing und die Verifikation”. In: *Informatik-Spektrum* 35.4 (June 2012), pp. 271–279. DOI: 10.1007/s00287-012-0627-2. URL: <https://doi.org/10.1007/2Fs00287-012-0627-2>.
- [848] Grigory K. Olkhovikov and Heinrich Wansing. “Inference as Doxastic Agency. Part I: The Basics of Justification Stit Logic”. In: *Studia Logica* 107.1 (Jan. 2018), pp. 167–194. DOI: 10.1007/s11225-017-9779-z. URL: <https://doi.org/10.1007/2Fs11225-017-9779-z>.
- [849] José Oscar Olmedo-Aguirre and Marisol Vázquez-Tzompantzi. “Flexible Rule-Based Programming for Autonomic Computing”. In: *Research in Computing Science* 105.1 (Dec. 2015), pp. 63–73. DOI: 10.13053/racs-105-1-6. URL: <https://doi.org/10.13053/2Frcs-105-1-6>.
- [850] O. Olsson and A. Wallenburg. “Customised induction rules for proving correctness of imperative programs”. In: *Third IEEE International Conference on Software Engineering and Formal Methods (SEFM’05)*. IEEE, 2005. DOI: 10.1109/sefm.2005.15. URL: <https://doi.org/10.1109/2Fsefm.2005.15>.
- [851] Wytse Oortwijn and Marieke Huisman. “Practical Abstractions for Automated Verification of Message Passing Concurrency”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 399–417. DOI: 10.1007/978-3-030-34968-4\_22. URL: [https://doi.org/10.1007/2F978-3-030-34968-4\\_22](https://doi.org/10.1007/2F978-3-030-34968-4_22).
- [852] Richard J. Ormerod. “The logic and methods of OR consulting practice: towards a foundational view”. In: *Journal of the Operational Research Society* 69.9 (Nov. 2017), pp. 1357–1378. DOI: 10.1080/01605682.2017.1392407. URL: <https://doi.org/10.1080/2F01605682.2017.1392407>.

- [853] Mario Ornaghi et al. “A Constructive Object Oriented Modeling Language for Information Systems”. In: *Electronic Notes in Theoretical Computer Science* 153.1 (Mar. 2006), pp. 55–75. DOI: 10.1016/j.entcs.2005.08.006. URL: <https://doi.org/10.1016%2Fj.entcs.2005.08.006>.
- [854] Magdalena Ortiz. “A Short Introduction to SHACL for Logicians”. In: *Logic, Language, Information, and Computation*. Springer Nature Switzerland, 2023, pp. 19–32. DOI: 10.1007/978-3-031-39784-4\_2. URL: [https://doi.org/10.1007%2F978-3-031-39784-4\\_2](https://doi.org/10.1007%2F978-3-031-39784-4_2).
- [855] Olaf Owe, Toktam Ramezanifarkhani, and Elahe Fazeldehkordi. “Hoare-Style Reasoning from Multiple Contracts”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2017, pp. 263–278. DOI: 10.1007/978-3-319-66845-1\_17. URL: [https://doi.org/10.1007%2F978-3-319-66845-1\\_17](https://doi.org/10.1007%2F978-3-319-66845-1_17).
- [856] Mert Ozkaya. “Teaching Design-by-Contract for the Modeling and Implementation of Software Systems”. In: *Proceedings of the 14th International Conference on Software Technologies*. SCITEPRESS - Science and Technology Publications, 2019. DOI: 10.5220/0007950904990507. URL: <https://doi.org/10.5220%2F0007950904990507>.
- [857] Eric Pacuit. *Neighborhood Semantics for Modal Logic*. Springer International Publishing, 2017. DOI: 10.1007/978-3-319-67149-9. URL: <https://doi.org/10.1007%2F978-3-319-67149-9>.
- [858] Eric Pacuit and Rohit Parikh. “Social Interaction, Knowledge, and Social Software”. In: *Interactive Computation*. Springer Berlin Heidelberg, pp. 441–461. DOI: 10.1007/3-540-34874-3\_17. URL: [https://doi.org/10.1007%2F3-540-34874-3\\_17](https://doi.org/10.1007%2F3-540-34874-3_17).
- [859] ERIC PACUIT and SUNIL SIMON. “REASONING WITH PROTOCOLS UNDER IMPERFECT INFORMATION”. In: *The Review of Symbolic Logic* 4.3 (Sept. 2011), pp. 412–444. DOI: 10.1017/s1755020311000190. URL: <https://doi.org/10.1017%2Fs1755020311000190>.
- [860] Marco Paganoni and Carlo A. Furia. “Verifying Functional Correctness Properties at the Level of Java Bytecode”. In: *Formal Methods*. Springer International Publishing, 2023, pp. 343–363. DOI: 10.1007/978-3-031-27481-7\_20. URL: [https://doi.org/10.1007%2F978-3-031-27481-7\\_20](https://doi.org/10.1007%2F978-3-031-27481-7_20).
- [861] Rex Page. “Computational logic in the undergraduate curriculum”. In: *Proceedings of the Eighth International Workshop on the ACL2 Theorem Prover and its Applications*. ACM, May 2009. DOI: 10.1145/1637837.1637842. URL: <https://doi.org/10.1145%2F1637837.1637842>.
- [862] Rex Page and Ruben Gamboa. “How Computers Work: Computational Thinking for Everyone”. In: *Electronic Proceedings in Theoretical Computer Science* 106 (Jan. 2013), pp. 1–19. DOI: 10.4204/eptcs.106.1. URL: <https://doi.org/10.4204%2Feptcs.106.1>.

- [863] Richard F. Paige, Phillip J. Brooke, and Jonathan S. Ostroff. “Metamodel-based model conformance and multiview consistency checking”. In: *ACM Transactions on Software Engineering and Methodology* 16.3 (July 2007), p. 11. DOI: 10.1145/1243987.1243989. URL: <https://doi.org/10.1145/1243987.1243989>.
- [864] Pere Pardo and Lluís Godo. “t-DeLP: an argumentation-based Temporal Defeasible Logic Programming framework”. In: *Annals of Mathematics and Artificial Intelligence* 69.1 (Feb. 2013), pp. 3–35. DOI: 10.1007/s10472-013-9334-1. URL: <https://doi.org/10.1007/s10472-013-9334-1>.
- [865] Raúl Pardo et al. *A Specification Logic for Programs in the Probabilistic Guarded Command Language (Extended Version)*. 2022. DOI: 10.48550/ARXIV.2205.04822. URL: <https://arxiv.org/abs/2205.04822>.
- [866] Benny Pasternak, Shmuel Tyszberowicz, and Amiram Yehudai. “GenUTest: a unit test and mock aspect generation tool”. In: *International Journal on Software Tools for Technology Transfer* 11.4 (Sept. 2009), pp. 273–290. DOI: 10.1007/s10009-009-0115-4. URL: <https://doi.org/10.1007/s10009-009-0115-4>.
- [867] Jyotishman Pathak. “Interactive and verifiable web services composition, specification reformulation and substitution”. PhD thesis. DOI: 10.31274/rtd-180813-16802. URL: <https://doi.org/10.31274/rtd-180813-16802>.
- [868] Allan Patrick, Igor Machado Coelho, and Bruno Lopes. “Automatic program verification in Dynamic Logic with applications to smart contracts”. In: *Anais do II Workshop Brasileiro de Lógica (WBL 2021)*. Sociedade Brasileira de Computação, July 2021. DOI: 10.5753/wbl.2021.15772. URL: <https://doi.org/10.5753/wbl.2021.15772>.
- [869] Gabriele Paveri-Fontana. “Review of iLogical Analysis of Hybrid Systems/i”. In: *Formal Aspects of Computing* 34.3-4 (Dec. 2022), pp. 1–2. DOI: 10.1145/3561612. URL: <https://doi.org/10.1145/3561612>.
- [870] Dusko Pavlovic and Temra Pavlovic. “From Gödel’s Incompleteness Theorem to the Completeness of Bot Beliefs”. In: *Logic, Language, Information, and Computation*. Springer Nature Switzerland, 2023, pp. 33–50. DOI: 10.1007/978-3-031-39784-4\_3. URL: [https://doi.org/10.1007/978-3-031-39784-4\\_3](https://doi.org/10.1007/978-3-031-39784-4_3).
- [871] David J. Pearce, Mark Utting, and Lindsay Groves. “Verifying Whiley Programs with Boogie”. In: *Journal of Automated Reasoning* 66.4 (Mar. 2022), pp. 747–803. DOI: 10.1007/s10817-022-09619-1. URL: <https://doi.org/10.1007/s10817-022-09619-1>.
- [872] Michal Pěchouček, Jan Tožička, and Vladimír Mařík. “Meta-reasoning Methods for Agent’s Intention Modelling”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2005, pp. 134–148. DOI: 10.1007/11492870\_11. URL: [https://doi.org/10.1007/11492870\\_11](https://doi.org/10.1007/11492870_11).



- [873] Tore Pedersen, Christian Johansen, and Audun Jøsang. “Behavioural Computer Science: an agenda for combining modelling of human and system behaviours”. In: *Human-centric Computing and Information Sciences* 8.1 (Mar. 2018). DOI: 10.1186/s13673-018-0130-0. URL: <https://doi.org/10.1186/s13673-018-0130-0>.
- [874] Nicolas Peltier. “Some Techniques for Branch-Saturation in Free-Variable Tableaux”. In: *Logics in Artificial Intelligence*. Springer Berlin Heidelberg, 2004, pp. 539–551. DOI: 10.1007/978-3-540-30227-8\_45. URL: [https://doi.org/10.1007/978-3-540-30227-8\\_45](https://doi.org/10.1007/978-3-540-30227-8_45).
- [875] Beatriz Pérez and Ivan Porres. “Reasoning about UML/OCL class diagrams using constraint logic programming and formula”. In: *Information Systems* 81 (Mar. 2019), pp. 152–177. DOI: 10.1016/j.is.2018.08.005. URL: <https://doi.org/10.1016/j.is.2018.08.005>.
- [876] Leonid Perlovsky and Roman Ilin. “Mathematical Model of Embodied Symbols: Cognition and Perceptual Symbol System”. In: *Journal of Behavioral and Brain Science* 02.02 (2012), pp. 195–220. DOI: 10.4236/jbbs.2012.22024. URL: <https://doi.org/10.4236/jbbs.2012.22024>.
- [877] Guillaume Petiot et al. “How testing helps to diagnose proof failures”. In: *Formal Aspects of Computing* 30.6 (Nov. 2018), pp. 629–657. DOI: 10.1007/s00165-018-0456-4. URL: <https://doi.org/10.1007/s00165-018-0456-4>.
- [878] Wolfram Pfeifer, Jonas Schiffel, and Mattias Ulbrich. “Reconstructing z3 proofs in KeY: there and back again”. In: *Proceedings of the 23rd ACM International Workshop on Formal Techniques for Java-like Programs*. ACM, July 2021. DOI: 10.1145/3464971.3468421. URL: <https://doi.org/10.1145/3464971.3468421>.
- [879] Pieter Philippaerts et al. “Software verification with VeriFast: Industrial case studies”. In: *Science of Computer Programming* 82 (Mar. 2014), pp. 77–97. DOI: 10.1016/j.scico.2013.01.006. URL: <https://doi.org/10.1016/j.scico.2013.01.006>.
- [880] Sophie Pinchinat, Sasha Rubin, and François Schwarzentruher. “Formula Synthesis in Propositional Dynamic Logic with Shuffle”. In: *Proceedings of the AAAI Conference on Artificial Intelligence* 36.9 (June 2022), pp. 9902–9909. DOI: 10.1609/aaai.v36i9.21227. URL: <https://doi.org/10.1609/aaai.v36i9.21227>.
- [881] S. Marques Pinto, M. Teresa Oliveira-Martins, and M. Céu Pinto. “Monadic dynamic algebras”. In: *MLQ* 52.2 (Mar. 2006), pp. 134–150. DOI: 10.1002/malq.200510022. URL: <https://doi.org/10.1002/malq.200510022>.
- [882] André Platzer. “A Complete Uniform Substitution Calculus for Differential Dynamic Logic”. In: *Journal of Automated Reasoning* 59.2 (Aug. 2016), pp. 219–265. DOI: 10.1007/s10817-016-9385-1. URL: <https://doi.org/10.1007/s10817-016-9385-1>.

- [883] André Platzer. “Differential Dynamic Logic for Hybrid Systems”. In: *Journal of Automated Reasoning* 41.2 (Aug. 2008), pp. 143–189. DOI: 10.1007/s10817-008-9103-8. URL: <https://doi.org/10.1007/2Fs10817-008-9103-8>.
- [884] André Platzer. “Differential Game Logic”. In: *ACM Transactions on Computational Logic* 17.1 (Nov. 2015), pp. 1–51. DOI: 10.1145/2817824. URL: <https://doi.org/10.1145/2817824>.
- [885] André Platzer. “Logic and Compositional Verification of Hybrid Systems”. In: *Computer Aided Verification*. Springer Berlin Heidelberg, 2011, pp. 28–43. DOI: 10.1007/978-3-642-22110-1\_4. URL: [https://doi.org/10.1007/2F978-3-642-22110-1\\_4](https://doi.org/10.1007/2F978-3-642-22110-1_4).
- [886] André Platzer. “Logical Analysis of Hybrid Systems”. In: *Descriptive Complexity of Formal Systems*. Springer Berlin Heidelberg, 2012, pp. 43–49. DOI: 10.1007/978-3-642-31623-4\_3. URL: [https://doi.org/10.1007/2F978-3-642-31623-4\\_3](https://doi.org/10.1007/2F978-3-642-31623-4_3).
- [887] André Platzer. *Logical Foundations of Cyber-Physical Systems*. Springer International Publishing, 2018. DOI: 10.1007/978-3-319-63588-0. URL: <https://doi.org/10.1007/2F978-3-319-63588-0>.
- [888] André Platzer. “Quantified Differential Dynamic Logic for Distributed Hybrid Systems”. In: *Computer Science Logic*. Springer Berlin Heidelberg, 2010, pp. 469–483. DOI: 10.1007/978-3-642-15205-4\_36. URL: [https://doi.org/10.1007/2F978-3-642-15205-4\\_36](https://doi.org/10.1007/2F978-3-642-15205-4_36).
- [889] André Platzer. “Uniform Substitution at One Fell Swoop”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 425–441. DOI: 10.1007/978-3-030-29436-6\_25. URL: [https://doi.org/10.1007/2F978-3-030-29436-6\\_25](https://doi.org/10.1007/2F978-3-030-29436-6_25).
- [890] Andre Platzer. “Combining Deduction and Algebraic Constraints for Hybrid System Analysis”. In: (2006). DOI: 10.1184/R1/6604181.V1. URL: [https://kilthub.cmu.edu/articles/Combining\\_Deduction\\_and\\_Algebraic\\_Constraints\\_for\\_Hybrid\\_System\\_Analysis/6604181/1](https://kilthub.cmu.edu/articles/Combining_Deduction_and_Algebraic_Constraints_for_Hybrid_System_Analysis/6604181/1).
- [891] André Platzer and Jan-David Quesel. “KeYmaera: A Hybrid Theorem Prover for Hybrid Systems (System Description)”. In: *Automated Reasoning*. Springer Berlin Heidelberg, pp. 171–178. DOI: 10.1007/978-3-540-71070-7\_15. URL: [https://doi.org/10.1007/2F978-3-540-71070-7\\_15](https://doi.org/10.1007/2F978-3-540-71070-7_15).
- [892] André Platzer, Jan-David Quesel, and Philipp Rümmer. “Real World Verification”. In: *Automated Deduction – CADE-22*. Springer Berlin Heidelberg, 2009, pp. 485–501. DOI: 10.1007/978-3-642-02959-2\_35. URL: [https://doi.org/10.1007/2F978-3-642-02959-2\\_35](https://doi.org/10.1007/2F978-3-642-02959-2_35).
- [893] Vladislav Podymov. “An Efficient Equivalence-checking Algorithm for a Model of Programs with Commutative and Absorptive Statements”. In: *Fundamenta Informaticae* 147.2-3 (Nov. 2016). Ed. by Ludwik Czaja, Wojciech Penczek, and Krzysztof Stencel, pp. 315–336. DOI: 10.3233/fi-2016-1410. URL: <https://doi.org/10.3233/2Ffi-2016-1410>.

- [894] Lech T. Polkowski. “Epistemic, Default and Dynamic Logics”. In: *Studies in Computational Intelligence*. Springer International Publishing, 2022, pp. 105–140. DOI: 10.1007/978-3-030-91680-0\_4. URL: [https://doi.org/10.1007%2F978-3-030-91680-0\\_4](https://doi.org/10.1007%2F978-3-030-91680-0_4).
- [895] Erik Poll. “Teaching Program Specification and Verification Using JML and ESC/Java2”. In: *Teaching Formal Methods*. Springer Berlin Heidelberg, 2009, pp. 92–104. DOI: 10.1007/978-3-642-04912-5\_7. URL: [https://doi.org/10.1007%2F978-3-642-04912-5\\_7](https://doi.org/10.1007%2F978-3-642-04912-5_7).
- [896] Carlos Gustavo Lopez Pombo and Agustín Eloy Martínez Suñé. *Integrating deduction and model finding in a language independent setting*. 2022. DOI: 10.48550/ARXIV.2206.07180. URL: <https://arxiv.org/abs/2206.07180>.
- [897] Alban Ponse and Daan J. C. Staudt. “An independent axiomatisation for free short-circuit logic”. In: *Journal of Applied Non-Classical Logics* 28.1 (Jan. 2018), pp. 35–71. DOI: 10.1080/11663081.2018.1448637. URL: <https://doi.org/10.1080%2F11663081.2018.1448637>.
- [898] Nikolaj Popov and Tudor Jebelean. “Sound and Complete Verification Condition Generator for Functional Recursive Programs”. In: *Texts &amp; Monographs in Symbolic Computation*. Springer Vienna, Oct. 2011, pp. 219–256. DOI: 10.1007/978-3-7091-0794-2\_11. URL: [https://doi.org/10.1007%2F978-3-7091-0794-2\\_11](https://doi.org/10.1007%2F978-3-7091-0794-2_11).
- [899] Jayaraj Poroor. “Natural Hoare Logic: Towards formal verification of programs from logical forms of natural language specifications”. In: (Mar. 2021). DOI: 10.36227/techrxiv.14096576.v1. URL: <https://doi.org/10.36227%2Ftechrxiv.14096576.v1>.
- [900] Vaughan Pratt. “Linear Process Algebra”. In: *Distributed Computing and Internet Technology*. Springer Berlin Heidelberg, 2011, pp. 92–111. DOI: 10.1007/978-3-642-19056-8\_6. URL: [https://doi.org/10.1007%2F978-3-642-19056-8\\_6](https://doi.org/10.1007%2F978-3-642-19056-8_6).
- [901] IAN PRATT-HARTMANN and LAWRENCE S. MOSS. “LOGICS FOR THE RELATIONAL SYLLOGISTIC”. In: *The Review of Symbolic Logic* 2.4 (Dec. 2009), pp. 647–683. DOI: 10.1017/s1755020309990086. URL: <https://doi.org/10.1017%2Fs1755020309990086>.
- [902] Viorel Preoteasa, Iulia Dragomir, and Stavros Tripakis. “The refinement calculus of reactive systems”. In: *Information and Computation* 285 (May 2022), p. 104819. DOI: 10.1016/j.ic.2021.104819. URL: <https://doi.org/10.1016%2Fj.ic.2021.104819>.
- [903] Giuseppe Primiero. “Algorithmic Iteration for Computational Intelligence”. In: *Minds and Machines* 27.3 (Feb. 2017), pp. 521–543. DOI: 10.1007/s11023-017-9423-8. URL: <https://doi.org/10.1007%2Fs11023-017-9423-8>.
- [904] Cristian Prisacariu. “Actor Network Procedures as Psi-calculi for Security Ceremonies”. In: *Electronic Proceedings in Theoretical Computer Science* 148 (Apr. 2014), pp. 63–77. DOI: 10.4204/eptcs.148.5. URL: <https://doi.org/10.4204%2Feptcs.148.5>.

- [905] Cristian Prisacariu. “Synchronous Kleene algebra”. In: *The Journal of Logic and Algebraic Programming* 79.7 (Oct. 2010), pp. 608–635. DOI: 10.1016/j.jlap.2010.07.009. URL: <https://doi.org/10.1016%2Fj.jlap.2010.07.009>.
- [906] Cristian Prisacariu. “The Glory of the Past and Geometrical Concurrency”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/klc1. URL: <https://doi.org/10.29007%2Fklc1>.
- [907] Carlo Proietti, Fernando R. Velázquez-Quesada, and Antonio Yuste-Ginel. “An Abstract Look at Awareness Models and Their Dynamics”. In: *Electronic Proceedings in Theoretical Computer Science* 379 (July 2023), pp. 455–469. DOI: 10.4204/eptcs.379.35. URL: <https://doi.org/10.4204%2Feptcs.379.35>.
- [908] Jonathan Protzenko. “The implementation of the Mezzo type-checker”. In: *Proceedings of the 25th symposium on Implementation and Application of Functional Languages*. ACM, Aug. 2013. DOI: 10.1145/2620678.2620684. URL: <https://doi.org/10.1145%2F2620678.2620684>.
- [909] Nils Przigoda, Robert Wille, and Rolf Drechsler. “Contradiction Analysis for Inconsistent Formal Models”. In: *2015 IEEE 18th International Symposium on Design and Diagnostics of Electronic Circuits & Systems*. IEEE, Apr. 2015. DOI: 10.1109/ddecs.2015.52. URL: <https://doi.org/10.1109%2Fddecs.2015.52>.
- [910] Nils Przigoda et al. “A Symbolic Formulation for Models”. In: *Automated Validation & Verification of UML/OCL Models Using Satisfiability Solvers*. Springer International Publishing, 2018, pp. 25–94. DOI: 10.1007/978-3-319-72814-8\_3. URL: [https://doi.org/10.1007%2F978-3-319-72814-8\\_3](https://doi.org/10.1007%2F978-3-319-72814-8_3).
- [911] Nils Przigoda et al. “Verifying the structure and behavior in UML/OCL models using satisfiability solvers”. In: *IET Cyber-Physical Systems: Theory & Applications* 1.1 (Dec. 2016), pp. 49–59. DOI: 10.1049/iet-cps.2016.0022. URL: <https://doi.org/10.1049%2Fiet-cps.2016.0022>.
- [912] Riccardo Pucella. “Logical verification and equational verification”. In: *ACM SIGACT News* 36.2 (June 2005), pp. 77–88. DOI: 10.1145/1067309.1067326. URL: <https://doi.org/10.1145%2F1067309.1067326>.
- [913] Riccardo Pucella and Mehrnoosh Sadrzadeh. “A Runs-and-Systems Semantics for Logics of Announcements”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2010, pp. 112–134. DOI: 10.1007/978-3-642-15164-4\_6. URL: [https://doi.org/10.1007%2F978-3-642-15164-4\\_6](https://doi.org/10.1007%2F978-3-642-15164-4_6).
- [914] Vít Punčochář and Igor Sedlár. “Inquisitive Propositional Dynamic Logic”. In: *Journal of Logic, Language and Information* 30.1 (Jan. 2021), pp. 91–116. DOI: 10.1007/s10849-020-09326-3. URL: <https://doi.org/10.1007%2Fs10849-020-09326-3>.

- [915] Fani Puspitasari, Sofia Debi Puspa, and Christian Kenny Verel. “Implementation of The Fuzzy Inference System to Determine The Amount of Purchase of Supplement Drug Products Based on Inventory and Sales Data at XYZ Pharmacy”. In: *Proceedings of the International Conference on Engineering and Information Technology for Sustainable Industry*. ACM, Sept. 2022. DOI: 10.1145/3557738.3557870. URL: <https://doi.org/10.1145/3557738.3557870>.
- [916] James Pustejovsky and Nikhil Krishnaswamy. “Embodied Human Computer Interaction”. In: *KI - Künstliche Intelligenz* 35.3-4 (Sept. 2021), pp. 307–327. DOI: 10.1007/s13218-021-00727-5. URL: <https://doi.org/10.1007/s13218-021-00727-5>.
- [917] James Pustejovsky and Nikhil Krishnaswamy. “Generating Simulations of Motion Events from Verbal Descriptions”. In: *Proceedings of the Third Joint Conference on Lexical and Computational Semantics (\*SEM2014)*. Association for Computational Linguistics and Dublin City University, 2014. DOI: 10.3115/v1/s14-1014. URL: <https://doi.org/10.3115/v1/s14-1014>.
- [918] Frederik Van De Putte and Dominik Klein. “Pooling Modalities and Pointwise Intersection: Semantics, Expressivity, and Dynamics”. In: *Journal of Philosophical Logic* 51.3 (Jan. 2022), pp. 485–523. DOI: 10.1007/s10992-021-09638-0. URL: <https://doi.org/10.1007/s10992-021-09638-0>.
- [919] Dawei Qi, Jooyong Yi, and Abhik Roychoudhury. “Software change contracts”. In: *Proceedings of the ACM SIGSOFT 20th International Symposium on the Foundations of Software Engineering*. ACM, Nov. 2012. DOI: 10.1145/2393596.2393622. URL: <https://doi.org/10.1145/2393596.2393622>.
- [920] Jun Qiang et al. “Integration Environment of Test Bed for C2 Organization”. In: *2010 International Conference on Management and Service Science*. IEEE, Aug. 2010. DOI: 10.1109/icmss.2010.5578365. URL: <https://doi.org/10.1109/icmss.2010.5578365>.
- [921] Boya Qin et al. “Formal modeling and verification of flexible load control for power grid CPS based on differential dynamic logic”. In: *2017 IEEE Conference on Energy Internet and Energy System Integration (EI2)*. IEEE, Nov. 2017. DOI: 10.1109/ei2.2017.8245721. URL: <https://doi.org/10.1109/ei2.2017.8245721>.
- [922] Shengchao Qin et al. “Invariants Synthesis over a Combined Domain for Automated Program Verification”. In: *Theories of Programming and Formal Methods*. Springer Berlin Heidelberg, 2013, pp. 304–325. DOI: 10.1007/978-3-642-39698-4\_19. URL: [https://doi.org/10.1007/978-3-642-39698-4\\_19](https://doi.org/10.1007/978-3-642-39698-4_19).
- [923] Jan-David Quesel et al. “How to model and prove hybrid systems with KeYmaera: a tutorial on safety”. In: *International Journal on Software Tools for Technology Transfer* 18.1 (Feb. 2015), pp. 67–91. DOI: 10.1007/s10009-015-0367-0. URL: <https://doi.org/10.1007/s10009-015-0367-0>.

- [924] Sarvapali D. Ramchurn et al. “Negotiating using rewards”. In: *Proceedings of the fifth international joint conference on Autonomous agents and multiagent systems*. ACM, May 2006. DOI: 10.1145/1160633.1160703. URL: <https://doi.org/10.1145/1160633.1160703>.
- [925] Aarne Ranta. “Modular Grammar Engineering in GF”. In: *Research on Language and Computation* 5.2 (Aug. 2007), pp. 133–158. DOI: 10.1007/s11168-007-9030-6. URL: <https://doi.org/10.1007/s11168-007-9030-6>.
- [926] Aarne Ranta. “Speaking About Wine: Another Case Study in Bridging the Gap Between Formal and Informal Knowledge”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 397–407. DOI: 10.1007/978-3-031-08166-8\_19. URL: [https://doi.org/10.1007/978-3-031-08166-8\\_19](https://doi.org/10.1007/978-3-031-08166-8_19).
- [927] Aarne Ranta. “Translating between Language and Logic: What Is Easy and What Is Difficult”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2011, pp. 5–25. DOI: 10.1007/978-3-642-22438-6\_3. URL: [https://doi.org/10.1007/978-3-642-22438-6\\_3](https://doi.org/10.1007/978-3-642-22438-6_3).
- [928] Eric J. Rapos and James R. Cordy. “SimEvo: A Toolset for Simulink Test Evolution & Maintenance”. In: *2018 IEEE 11th International Conference on Software Testing, Verification and Validation (ICST)*. IEEE, Apr. 2018. DOI: 10.1109/icst.2018.00049. URL: <https://doi.org/10.1109/icst.2018.00049>.
- [929] Elena V. Ravve and Zeev Volkovich. “A Systematic Approach to Computations on Decomposable Graphs”. In: *2013 15th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*. IEEE, Sept. 2013. DOI: 10.1109/synasc.2013.59. URL: <https://doi.org/10.1109/synasc.2013.59>.
- [930] Elena V. Ravve, Zeev Volkovich, and Gerhard-Wilhelm Weber. “A Logic-Based Approach to Incremental Reasoning on Multi-agent Systems”. In: *Springer Proceedings in Mathematics & Statistics*. Springer International Publishing, 2021, pp. 397–443. DOI: 10.1007/978-3-030-78163-7\_18. URL: [https://doi.org/10.1007/978-3-030-78163-7\\_18](https://doi.org/10.1007/978-3-030-78163-7_18).
- [931] Germán Regis et al. “DynAlloy analyzer: a tool for the specification and analysis of alloy models with dynamic behaviour”. In: *Proceedings of the 2017 11th Joint Meeting on Foundations of Software Engineering*. ACM, Aug. 2017. DOI: 10.1145/3106237.3122826. URL: <https://doi.org/10.1145/3106237.3122826>.
- [932] Habib ur Rehman, Mohammed Nazir, and Khurram Mustafa. “Security of Web Application: State of the Art”. In: *Communications in Computer and Information Science*. Springer Singapore, 2017, pp. 168–180. DOI: 10.1007/978-981-10-6544-6\_17. URL: [https://doi.org/10.1007/978-981-10-6544-6\\_17](https://doi.org/10.1007/978-981-10-6544-6_17).
- [933] Xiaoqiang Ren and Ruilian Hou. “Extend UDDI using ontology for automated service composition”. In: *2011 Second International Conference on Mechanic Automation and Control Engineering*. IEEE, July 2011. DOI: 10.1109/mace.2011.5986917. URL: <https://doi.org/10.1109/mace.2011.5986917>.

- [934] Arend Rensink and Eduardo Zambon. “A Type Graph Model for Java Programs”. In: *Formal Techniques for Distributed Systems*. Springer Berlin Heidelberg, 2009, pp. 237–242. DOI: 10.1007/978-3-642-02138-1\_18. URL: [https://doi.org/10.1007%2F978-3-642-02138-1\\_18](https://doi.org/10.1007%2F978-3-642-02138-1_18).
- [935] Ralf Reussner et al., eds. *Managed Software Evolution*. Springer International Publishing, 2019. DOI: 10.1007/978-3-030-13499-0. URL: <https://doi.org/10.1007%2F978-3-030-13499-0>.
- [936] M. Birna van Riemsdijk, Frank S. de Boer, and John-Jules Ch. Meyer. “Dynamic Logic for Plan Revision in Agent Programming”. In: *Journal of Logic and Computation* 16.3 (June 2006), pp. 375–402. DOI: 10.1093/logcom/exi084. URL: <https://doi.org/10.1093%2Flogcom%2Fexi084>.
- [937] Pedro Juan Roig et al. “MQTT Algebraic Formal Modelling Using ACP”. In: *2020 24th International Conference Electronics*. IEEE, June 2020. DOI: 10.1109/ieeeeconf49502.2020.9141589. URL: <https://doi.org/10.1109%2Fieeeeconf49502.2020.9141589>.
- [938] Manuel Roldán, Francisco Durán, and Antonio Vallecillo. “Invariant-driven specifications in Maude”. In: *Science of Computer Programming* 74.10 (Aug. 2009), pp. 812–835. DOI: 10.1016/j.scico.2009.03.003. URL: <https://doi.org/10.1016%2Fj.scico.2009.03.003>.
- [939] Robert van Rooij. “Conjunctive interpretation of disjunction”. In: *Semantics and Pragmatics* 3 (Sept. 2010). DOI: 10.3765/sp.3.11. URL: <https://doi.org/10.3765%2Fsp.3.11>.
- [940] Grigore Rosu and Andrei Stefanescu. “Checking reachability using matching logic”. In: *Proceedings of the ACM international conference on Object oriented programming systems languages and applications*. ACM, Oct. 2012. DOI: 10.1145/2384616.2384656. URL: <https://doi.org/10.1145%2F2384616.2384656>.
- [941] Grigore Rosu et al. “One-Path Reachability Logic”. In: *2013 28th Annual ACM/IEEE Symposium on Logic in Computer Science*. IEEE, June 2013. DOI: 10.1109/lics.2013.42. URL: <https://doi.org/10.1109%2Flics.2013.42>.
- [942] Grigore Roşu, Chucky Ellison, and Wolfram Schulte. “Matching Logic: An Alternative to Hoare/Floyd Logic”. In: *Algebraic Methodology and Software Technology*. Springer Berlin Heidelberg, 2011, pp. 142–162. DOI: 10.1007/978-3-642-17796-5\_9. URL: [https://doi.org/10.1007%2F978-3-642-17796-5\\_9](https://doi.org/10.1007%2F978-3-642-17796-5_9).
- [943] Grigore Roşu and Andrei Ştefănescu. “Towards a Unified Theory of Operational and Axiomatic Semantics”. In: *Automata, Languages, and Programming*. Springer Berlin Heidelberg, 2012, pp. 351–363. DOI: 10.1007/978-3-642-31585-5\_33. URL: [https://doi.org/10.1007%2F978-3-642-31585-5\\_33](https://doi.org/10.1007%2F978-3-642-31585-5_33).
- [944] Andreas Roth. “Specification and Verification of Encapsulation in Java Programs”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2005, pp. 195–210. DOI: 10.1007/11494881\_13. URL: [https://doi.org/10.1007%2F11494881\\_13](https://doi.org/10.1007%2F11494881_13).

- [945] Antonino Rotolo and Clara Smith. “Modelling legal procedures”. In: *Proceedings of the Eighteenth International Conference on Artificial Intelligence and Law*. ACM, June 2021. DOI: 10.1145/3462757.3466089. URL: <https://doi.org/10.1145/3462757.3466089>.
- [946] Lambèr Royakkers and Jesse Hughes. “Blame it on me”. In: *Journal of Philosophical Logic* 49.2 (June 2019), pp. 315–349. DOI: 10.1007/s10992-019-09519-7. URL: <https://doi.org/10.1007/s10992-019-09519-7>.
- [947] Robert Rubbens, Sophie Lathouwers, and Marieke Huisman. “Modular Transformation of Java Exceptions Modulo Errors”. In: *Formal Methods for Industrial Critical Systems*. Springer International Publishing, 2021, pp. 67–84. DOI: 10.1007/978-3-030-85248-1\_5. URL: [https://doi.org/10.1007/978-3-030-85248-1\\_5](https://doi.org/10.1007/978-3-030-85248-1_5).
- [948] Fabian Ruch. “Efficient Logic-Based Information Flow Analysis of Object-Oriented Programs”. en. In: (2013). DOI: 10.5445/IR/1000036850. URL: <https://publikationen.bibliothek.kit.edu/1000036850>.
- [949] Ivan Ruchkin. “Integration of Modeling Methods for Cyber-Physical Systems”. In: (2019). DOI: 10.1184/R1/7970222.V1. URL: [https://kilthub.cmu.edu/articles/Integration\\_of\\_Modeling\\_Methods\\_for\\_Cyber-Physical\\_Systems/7970222/1](https://kilthub.cmu.edu/articles/Integration_of_Modeling_Methods_for_Cyber-Physical_Systems/7970222/1).
- [950] Philipp Rümmer. “Sequential, Parallel, and Quantified Updates of First-Order Structures”. In: *Logic for Programming, Artificial Intelligence, and Reasoning*. Springer Berlin Heidelberg, 2006, pp. 422–436. DOI: 10.1007/11916277\_29. URL: [https://doi.org/10.1007/11916277\\_29](https://doi.org/10.1007/11916277_29).
- [951] Philipp Rümmer and Muhammad Ali Shah. “Proving Programs Incorrect Using a Sequent Calculus for Java Dynamic Logic”. In: *Tests and Proofs*. Springer Berlin Heidelberg, pp. 41–60. DOI: 10.1007/978-3-540-73770-4\_3. URL: [https://doi.org/10.1007/978-3-540-73770-4\\_3](https://doi.org/10.1007/978-3-540-73770-4_3).
- [952] Tobias Runge et al. “Comparing Correctness-by-Construction with Post-Hoc Verification—A Qualitative User Study”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 388–405. DOI: 10.1007/978-3-030-54997-8\_25. URL: [https://doi.org/10.1007/978-3-030-54997-8\\_25](https://doi.org/10.1007/978-3-030-54997-8_25).
- [953] Tobias Runge et al. *Flexible Correct-by-Construction Programming*. 2022. DOI: 10.48550/ARXIV.2211.15261. URL: <https://arxiv.org/abs/2211.15261>.
- [954] Tobias Runge et al. “Immutability and Encapsulation for Sound OO Information Flow Control”. In: *ACM Transactions on Programming Languages and Systems* 45.1 (Mar. 2023), pp. 1–35. DOI: 10.1145/3573270. URL: <https://doi.org/10.1145/3573270>.
- [955] Tobias Runge et al. “Teaching Correctness-by-Construction and Post-hoc Verification – The Online Experience”. In: *Formal Methods Teaching*. Springer International Publishing, 2021, pp. 101–116. DOI: 10.1007/978-3-030-91550-6\_8. URL: [https://doi.org/10.1007/978-3-030-91550-6\\_8](https://doi.org/10.1007/978-3-030-91550-6_8).



- [956] Tobias Runge et al. “Tool Support for Correctness-by-Construction”. In: *Fundamental Approaches to Software Engineering*. Springer International Publishing, 2019, pp. 25–42. DOI: 10.1007/978-3-030-16722-6\_2. URL: [https://doi.org/10.1007/978-3-030-16722-6\\_2](https://doi.org/10.1007/978-3-030-16722-6_2).
- [957] Tobias Runge et al. *Traits for Correct-by-Construction Programming*. 2022. DOI: 10.48550/ARXIV.2204.05644. URL: <https://arxiv.org/abs/2204.05644>.
- [958] Tobias Runge et al. “Traits: Correctness-by-Construction for Free”. In: *Formal Techniques for Distributed Objects, Components, and Systems*. Springer International Publishing, 2022, pp. 131–150. DOI: 10.1007/978-3-031-08679-3\_9. URL: [https://doi.org/10.1007/978-3-031-08679-3\\_9](https://doi.org/10.1007/978-3-031-08679-3_9).
- [959] Mikhail Rybakov and Dmitry Shkatov. “Complexity of finite-variable fragments of propositional temporal and modal logics of computation”. In: *Theoretical Computer Science* 925 (Aug. 2022), pp. 45–60. DOI: 10.1016/j.tcs.2022.04.056. URL: <https://doi.org/10.1016/j.tcs.2022.04.056>.
- [960] Aya Saad and Anne Håkansson. “RAMARL: Robustness Analysis with Multi-Agent Reinforcement Learning - Robust Reasoning in Autonomous Cyber-Physical Systems”. In: *Procedia Computer Science* 207 (2022), pp. 3662–3671. DOI: 10.1016/j.procs.2022.09.426. URL: <https://doi.org/10.1016/j.procs.2022.09.426>.
- [961] Arsène Sabas et al. “A Categorical Modeling Approach of Aspect-Oriented Systems”. In: *2011 Fifth International Conference on Theoretical Aspects of Software Engineering*. IEEE, Aug. 2011. DOI: 10.1109/tase.2011.26. URL: <https://doi.org/10.1109/tase.2011.26>.
- [962] Ayesha Sadiq, Yuan-Fang Li, and Sea Ling. “A survey on the use of access permission-based specifications for program verification”. In: *Journal of Systems and Software* 159 (Jan. 2020), p. 110450. DOI: 10.1016/j.jss.2019.110450. URL: <https://doi.org/10.1016/j.jss.2019.110450>.
- [963] Aneesa Saeed and S. H. A. Hamid. “Theorem Prover Based Static Analyzer: Comparison Analysis Between ESC/Java2 and KeY”. In: *Lecture Notes in Electrical Engineering*. Springer International Publishing, Nov. 2014, pp. 727–737. DOI: 10.1007/978-3-319-07674-4\_68. URL: [https://doi.org/10.1007/978-3-319-07674-4\\_68](https://doi.org/10.1007/978-3-319-07674-4_68).
- [964] Mohsen Safari and Marieke Huisman. “A Generic Approach to the Verification of the Permutation Property of Sequential and Parallel Swap-Based Sorting Algorithms”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 257–275. DOI: 10.1007/978-3-030-63461-2\_14. URL: [https://doi.org/10.1007/978-3-030-63461-2\\_14](https://doi.org/10.1007/978-3-030-63461-2_14).
- [965] Khayyam Salehi et al. “An Automated Quantitative Information Flow Analysis for Concurrent Programs”. In: *Quantitative Evaluation of Systems*. Springer International Publishing, 2022, pp. 43–63. DOI: 10.1007/978-3-031-16336-4\_3. URL: [https://doi.org/10.1007/978-3-031-16336-4\\_3](https://doi.org/10.1007/978-3-031-16336-4_3).

- [966] Katsuhiko Sano and Satoshi Tojo. “Dynamic Logic for Multi-agent (Mis) Communication”. In: *2015 Seventh International Conference on Knowledge and Systems Engineering (KSE)*. IEEE, Oct. 2015. DOI: 10.1109/kse.2015.73. URL: <https://doi.org/10.1109%2Fkse.2015.73>.
- [967] Regivan H. N. Santiago et al. “On Interval Dynamic Logic”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2016, pp. 129–144. DOI: 10.1007/978-3-319-49815-7\_8. URL: [https://doi.org/10.1007%2F978-3-319-49815-7\\_8](https://doi.org/10.1007%2F978-3-319-49815-7_8).
- [968] Luigi Santocanale and Yde Venema. “Completeness for flat modal fix-point logics”. In: *Annals of Pure and Applied Logic* 162.1 (Oct. 2010), pp. 55–82. DOI: 10.1016/j.apal.2010.07.003. URL: <https://doi.org/10.1016%2Fj.apal.2010.07.003>.
- [969] Ralf Sasse and José Meseguer. “JavaITP: A Verification Tool Based on Hoare Logic and Algebraic Semantics”. In: *Electronic Notes in Theoretical Computer Science* 176.4 (July 2007), pp. 29–46. DOI: 10.1016/j.entcs.2007.06.006. URL: <https://doi.org/10.1016%2Fj.entcs.2007.06.006>.
- [970] Yuki Satake and Hiroshi Unno. “Propositional Dynamic Logic for Higher-Order Functional Programs”. In: *Computer Aided Verification*. Springer International Publishing, 2018, pp. 105–123. DOI: 10.1007/978-3-319-96145-3\_6. URL: [https://doi.org/10.1007%2F978-3-319-96145-3\\_6](https://doi.org/10.1007%2F978-3-319-96145-3_6).
- [971] Luigi Sauro et al. “Reasoning about action and cooperation”. In: *Proceedings of the fifth international joint conference on Autonomous agents and multiagent systems*. ACM, May 2006. DOI: 10.1145/1160633.1160663. URL: <https://doi.org/10.1145%2F1160633.1160663>.
- [972] Marco Scaletta et al. “Delta-based verification of software product families”. In: *Proceedings of the 20th ACM SIGPLAN International Conference on Generative Programming: Concepts and Experiences*. ACM, Oct. 2021. DOI: 10.1145/3486609.3487200. URL: <https://doi.org/10.1145%2F3486609.3487200>.
- [973] Ina Schaefer et al. “Software diversity: state of the art and perspectives”. In: *International Journal on Software Tools for Technology Transfer* 14.5 (July 2012), pp. 477–495. DOI: 10.1007/s10009-012-0253-y. URL: <https://doi.org/10.1007%2Fs10009-012-0253-y>.
- [974] Ina Schaefer et al. “Towards Confidentiality-by-Construction”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Modeling*. Springer International Publishing, 2018, pp. 502–515. DOI: 10.1007/978-3-030-03418-4\_30. URL: [https://doi.org/10.1007%2F978-3-030-03418-4\\_30](https://doi.org/10.1007%2F978-3-030-03418-4_30).
- [975] Christoph Scheben. “Program-level Specification and Deductive Verification of Security Properties”. en. In: (2014). DOI: 10.5445/IR/1000046878. URL: <https://publikationen.bibliothek.kit.edu/1000046878>.

- [976] L. Menasché Schechter. “A logic of plausible justifications”. In: *Theoretical Computer Science* 603 (Oct. 2015), pp. 132–145. DOI: 10.1016/j.tcs.2015.07.018. URL: <https://doi.org/10.1016%2Fj.tcs.2015.07.018>.
- [977] Gerhard Schellhorn and Richard Banach. “A Concept-Driven Construction of the Mondex Protocol Using Three Refinements”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, pp. 57–70. DOI: 10.1007/978-3-540-87603-8\_6. URL: [https://doi.org/10.1007%2F978-3-540-87603-8\\_6](https://doi.org/10.1007%2F978-3-540-87603-8_6).
- [978] Gerhard Schellhorn et al. “RGITL: A temporal logic framework for compositional reasoning about interleaved programs”. In: *Annals of Mathematics and Artificial Intelligence* 71.1-3 (Jan. 2014), pp. 131–174. DOI: 10.1007/s10472-013-9389-z. URL: <https://doi.org/10.1007%2Fs10472-013-9389-z>.
- [979] Gerhard Schellhorn et al. “Software & System Verification with KIV”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 408–436. DOI: 10.1007/978-3-031-08166-8\_20. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_20](https://doi.org/10.1007%2F978-3-031-08166-8_20).
- [980] Gerhard Schellhorn et al. “The Mondex Challenge: Machine Checked Proofs for an Electronic Purse”. In: *FM 2006: Formal Methods*. Springer Berlin Heidelberg, 2006, pp. 16–31. DOI: 10.1007/11813040\_2. URL: [https://doi.org/10.1007%2F11813040\\_2](https://doi.org/10.1007%2F11813040_2).
- [981] Dominic Scheurer, Reiner Hähnle, and Richard Bubel. “A General Lattice Model for Merging Symbolic Execution Branches”. In: *Formal Methods and Software Engineering*. Springer International Publishing, 2016, pp. 57–73. DOI: 10.1007/978-3-319-47846-3\_5. URL: [https://doi.org/10.1007%2F978-3-319-47846-3\\_5](https://doi.org/10.1007%2F978-3-319-47846-3_5).
- [982] Ute Schiffel. “Safety Transformations: Sound and Complete?” In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2013, pp. 190–201. DOI: 10.1007/978-3-642-40793-2\_18. URL: [https://doi.org/10.1007%2F978-3-642-40793-2\\_18](https://doi.org/10.1007%2F978-3-642-40793-2_18).
- [983] Jonas Schiffel et al. “Formal Analysis of Smart Contracts: Applying the KeY System”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 204–218. DOI: 10.1007/978-3-030-64354-6\_8. URL: [https://doi.org/10.1007%2F978-3-030-64354-6\\_8](https://doi.org/10.1007%2F978-3-030-64354-6_8).
- [984] Renate A. Schmidt and Cláudia Nalon, eds. *Automated Reasoning with Analytic Tableaux and Related Methods*. Springer International Publishing, 2017. DOI: 10.1007/978-3-319-66902-1. URL: <https://doi.org/10.1007%2F978-3-319-66902-1>.
- [985] Renate A. Schmidt and Dmitry Tishkovsky. “On combinations of propositional dynamic logic and doxastic modal logics”. In: *Journal of Logic, Language and Information* 17.1 (Mar. 2007), pp. 109–129. DOI: 10.1007/s10849-007-9041-6. URL: <https://doi.org/10.1007%2Fs10849-007-9041-6>.

- [986] Peter Schmitt et al. “A case study of specification and verification using JML in an avionics application”. In: *Proceedings of the 4th international workshop on Java technologies for real-time and embedded systems - JTRES '06*. ACM Press, 2006. DOI: 10.1145/1167999.1168018. URL: <https://doi.org/10.1145/1167999.1168018>.
- [987] Peter H. Schmitt. “A Computer-Assisted Proof of the Bellman-Ford Lemma”. In: (2011). DOI: 10.5445/IR/1000022513. URL: <http://digbib.ubka.uni-karlsruhe.de/volltexte/1000022513>.
- [988] Peter H. Schmitt. “A Mechanizable First-Order Theory of Ordinals”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2017, pp. 331–346. DOI: 10.1007/978-3-319-66902-1\_20. URL: [https://doi.org/10.1007/978-3-319-66902-1\\_20](https://doi.org/10.1007/978-3-319-66902-1_20).
- [989] Peter H. Schmitt. “Two First-Order Theories of Ordinals”. In: *Fields of Logic and Computation III*. Springer International Publishing, 2020, pp. 247–257. DOI: 10.1007/978-3-030-48006-6\_17. URL: [https://doi.org/10.1007/978-3-030-48006-6\\_17](https://doi.org/10.1007/978-3-030-48006-6_17).
- [990] Peter H. Schmitt and Isabel Tonin. “Verifying the Mondex Case Study”. In: *Fifth IEEE International Conference on Software Engineering and Formal Methods (SEFM 2007)*. IEEE, Sept. 2007. DOI: 10.1109/sefm.2007.47. URL: <https://doi.org/10.1109/SEFM.2007.47>.
- [991] Peter H. Schmitt and Mattias Ulbrich. “Axiomatization of Typed First-Order Logic”. In: *FM 2015: Formal Methods*. Springer International Publishing, 2015, pp. 470–486. DOI: 10.1007/978-3-319-19249-9\_29. URL: [https://doi.org/10.1007/978-3-319-19249-9\\_29](https://doi.org/10.1007/978-3-319-19249-9_29).
- [992] Peter H. Schmitt, Mattias Ulbrich, and Benjamin Weiß. “Dynamic Frames in Java Dynamic Logic”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2011, pp. 138–152. DOI: 10.1007/978-3-642-18070-5\_10. URL: [https://doi.org/10.1007/978-3-642-18070-5\\_10](https://doi.org/10.1007/978-3-642-18070-5_10).
- [993] Wolfgang Schreiner. “Computer-Assisted Program Reasoning Based on a Relational Semantics of Programs”. In: *Electronic Proceedings in Theoretical Computer Science* 79 (Feb. 2012), pp. 124–142. DOI: 10.4204/eptcs.79.8. URL: <https://doi.org/10.4204/eptcs.79.8>.
- [994] Wolfgang Schreiner. “The RISC ProofNavigator: a proving assistant for program verification in the classroom”. In: *Formal Aspects of Computing* 21.3 (May 2009), pp. 277–291. DOI: 10.1007/s00165-008-0069-4. URL: <https://doi.org/10.1007/s00165-008-0069-4>.
- [995] Wolfgang Schreiner. “Theorem and Algorithm Checking for Courses on Logic and Formal Methods”. In: *Electronic Proceedings in Theoretical Computer Science* 290 (Apr. 2019), pp. 56–75. DOI: 10.4204/eptcs.290.5. URL: <https://doi.org/10.4204/eptcs.290.5>.
- [996] Wolfgang Schreiner and Franz-Xaver Reichl. “First-Order Logic in Finite Domains: Where Semantic Evaluation Competes with SMT Solving”. In: *Electronic Proceedings in Theoretical Computer Science* 342 (Sept. 2021), pp. 99–113. DOI: 10.4204/eptcs.342.9. URL: <https://doi.org/10.4204/eptcs.342.9>.

- [997] Christopher Schuster and Cormac Flanagan. “IDVE”. In: *Proceedings of the Conference Companion of the 3rd International Conference on Art, Science, and Engineering of Programming*. ACM, Apr. 2019. DOI: 10.1145/3328433.3328453. URL: <https://doi.org/10.1145/3328433.3328453>.
- [998] Felix Schwickerath et al. *Tool-Supported Architecture-Based Data Flow Analysis for Confidentiality*. 2023. DOI: 10.48550/ARXIV.2308.01645. URL: <https://arxiv.org/abs/2308.01645>.
- [999] Igor Sedlár. “Propositional Dynamic Logic with Quantification over Regular Computation Sequences”. In: *Logical Foundations of Computer Science*. Springer International Publishing, Dec. 2021, pp. 301–315. DOI: 10.1007/978-3-030-93100-1\_19. URL: [https://doi.org/10.1007/978-3-030-93100-1\\_19](https://doi.org/10.1007/978-3-030-93100-1_19).
- [1000] Martina Seidl and Nikolai Tillmann, eds. *Tests and Proofs*. Springer International Publishing, 2014. DOI: 10.1007/978-3-319-09099-3. URL: <https://doi.org/10.1007/978-3-319-09099-3>.
- [1001] Stephan Seifermann, Robert Heinrich, and Ralf Reussner. “Data-Driven Software Architecture for Analyzing Confidentiality”. In: *2019 IEEE International Conference on Software Architecture (ICSA)*. IEEE, Mar. 2019. DOI: 10.1109/icsa.2019.00009. URL: <https://doi.org/10.1109/icsa.2019.00009>.
- [1002] Stephan Seifermann et al. “Detecting violations of access control and information flow policies in data flow diagrams”. In: *Journal of Systems and Software* 184 (Feb. 2022), p. 111138. DOI: 10.1016/j.jss.2021.111138. URL: <https://doi.org/10.1016/j.jss.2021.111138>.
- [1003] Jeremy Seligman, Fenrong Liu, and Patrick Girard. “Logic in the Community”. In: *Logic and Its Applications*. Springer Berlin Heidelberg, 2011, pp. 178–188. DOI: 10.1007/978-3-642-18026-2\_15. URL: [https://doi.org/10.1007/978-3-642-18026-2\\_15](https://doi.org/10.1007/978-3-642-18026-2_15).
- [1004] Yuvaraj Selvaraj, Wolfgang Ahrendt, and Martin Fabian. “Verification of Decision Making Software in an Autonomous Vehicle: An Industrial Case Study”. In: *Formal Methods for Industrial Critical Systems*. Springer International Publishing, 2019, pp. 143–159. DOI: 10.1007/978-3-030-27008-7\_9. URL: [https://doi.org/10.1007/978-3-030-27008-7\\_9](https://doi.org/10.1007/978-3-030-27008-7_9).
- [1005] M. Kiani Shahvandi and Benedikt Soja. “Inclusion of data uncertainty in machine learning and its application in geodetic data science, with case studies for the prediction of Earth orientation parameters and GNSS station coordinate time series”. In: *Advances in Space Research* 70.3 (Aug. 2022), pp. 563–575. DOI: 10.1016/j.asr.2022.05.042. URL: <https://doi.org/10.1016/j.asr.2022.05.042>.
- [1006] Steve M. Shaner, Gary T. Leavens, and David A. Naumann. “Modular verification of higher-order methods with mandatory calls specified by model programs”. In: *Proceedings of the 22nd annual ACM SIGPLAN conference on Object-oriented programming systems, languages and applications*. ACM, Oct. 2007. DOI: 10.1145/1297027.1297053. URL: <https://doi.org/10.1145/1297027.1297053>.

- [1007] Mikhail Sheremet, Frank Wolter, and Michael Zakharyashev. “A modal logic framework for reasoning about comparative distances and topology”. In: *Annals of Pure and Applied Logic* 161.4 (Jan. 2010), pp. 534–559. DOI: 10.1016/j.apal.2009.04.001. URL: <https://doi.org/10.1016%2Fj.apal.2009.04.001>.
- [1008] Olha Shkaravska, Rody Kersten, and Marko van Eekelen. “Test-based inference of polynomial loop-bound functions”. In: *Proceedings of the 8th International Conference on the Principles and Practice of Programming in Java*. ACM, Sept. 2010. DOI: 10.1145/1852761.1852776. URL: <https://doi.org/10.1145%2F1852761.1852776>.
- [1009] Gennady Shtakser. “A Modal Loosely Guarded Fragment of Second-Order Propositional Modal Logic”. In: *Journal of Logic, Language and Information* 32.3 (Dec. 2022), pp. 511–538. DOI: 10.1007/s10849-022-09390-x. URL: <https://doi.org/10.1007%2Fs10849-022-09390-x>.
- [1010] Dr. Fridtjof Siebert. “Fuzion - Safety through Simplicity”. In: *ACM SIGAda Ada Letters* 41.1 (Oct. 2022), pp. 83–86. DOI: 10.1145/3570315.3570323. URL: <https://doi.org/10.1145%2F3570315.3570323>.
- [1011] Fridtjof Siebert. “Proving the absence of RTSJ related runtime errors through data flow analysis”. In: *Proceedings of the 4th international workshop on Java technologies for real-time and embedded systems - JTRES '06*. ACM Press, 2006. DOI: 10.1145/1167999.1168025. URL: <https://doi.org/10.1145%2F1167999.1168025>.
- [1012] Eduardo Augusto Silvestre and Viviane Torres da Silva. “Conflict Detection among Multiple Norms in Multi-Agent Systems”. In: *Applied Artificial Intelligence* 32.4 (Apr. 2018), pp. 388–418. DOI: 10.1080/08839514.2018.1481591. URL: <https://doi.org/10.1080%2F08839514.2018.1481591>.
- [1013] Murali Sitaraman et al. “Building a push-button RESOLVE verifier: Progress and challenges”. In: *Formal Aspects of Computing* 23.5 (Sept. 2011), pp. 607–626. DOI: 10.1007/s00165-010-0154-3. URL: <https://doi.org/10.1007%2Fs00165-010-0154-3>.
- [1014] Murali Sitaraman et al. “Engaging students in specification and reasoning”. In: *Proceedings of the 14th annual ACM SIGCSE conference on Innovation and technology in computer science education*. ACM, July 2009. DOI: 10.1145/1562877.1562899. URL: <https://doi.org/10.1145%2F1562877.1562899>.
- [1015] Jan Smans, Bart Jacobs, and Frank Piessens. “Implicit dynamic frames”. In: *ACM Transactions on Programming Languages and Systems* 34.1 (Apr. 2012), pp. 1–58. DOI: 10.1145/2160910.2160911. URL: <https://doi.org/10.1145%2F2160910.2160911>.
- [1016] Jan Smans, Bart Jacobs, and Frank Piessens. “Implicit Dynamic Frames: Combining Dynamic Frames and Separation Logic”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2009, pp. 148–172. DOI: 10.1007/978-3-642-03013-0\_8. URL: [https://doi.org/10.1007%2F978-3-642-03013-0\\_8](https://doi.org/10.1007%2F978-3-642-03013-0_8).

- [1017] Jan Smans, Bart Jacobs, and Frank Piessens. “VeriFast for Java: A Tutorial”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2013, pp. 407–442. DOI: 10.1007/978-3-642-36946-9\_14. URL: [https://doi.org/10.1007%2F978-3-642-36946-9\\_14](https://doi.org/10.1007%2F978-3-642-36946-9_14).
- [1018] Hans Smessaert and Lorenz Demey. “Logical Geometries and Information in the Square of Oppositions”. In: *Journal of Logic, Language and Information* 23.4 (Sept. 2014), pp. 527–565. DOI: 10.1007/s10849-014-9207-y. URL: <https://doi.org/10.1007%2Fs10849-014-9207-y>.
- [1019] Sonja Smets. “Reasoning about Quantum Actions: A Logician’s Perspective”. In: *New Challenges to Philosophy of Science*. Springer Netherlands, 2013, pp. 125–134. DOI: 10.1007/978-94-007-5845-2\_11. URL: [https://doi.org/10.1007%2F978-94-007-5845-2\\_11](https://doi.org/10.1007%2F978-94-007-5845-2_11).
- [1020] Hampton Smith et al. “Generating Verified Java Components through RESOLVE”. In: *Formal Foundations of Reuse and Domain Engineering*. Springer Berlin Heidelberg, 2009, pp. 11–20. DOI: 10.1007/978-3-642-04211-9\_2. URL: [https://doi.org/10.1007%2F978-3-642-04211-9\\_2](https://doi.org/10.1007%2F978-3-642-04211-9_2).
- [1021] Mathias Soeken, Robert Wille, and Rolf Drechsler. “Encoding OCL Data Types for SAT-Based Verification of UML/OCL Models”. In: *Tests and Proofs*. Springer Berlin Heidelberg, 2011, pp. 152–170. DOI: 10.1007/978-3-642-21768-5\_12. URL: [https://doi.org/10.1007%2F978-3-642-21768-5\\_12](https://doi.org/10.1007%2F978-3-642-21768-5_12).
- [1022] Marlo Souza, Renata Vieira, and Álvaro Moreira. “Dynamic Preference Logic meets iterated belief change: Representation results and postulates characterization”. In: *Theoretical Computer Science* 872 (June 2021), pp. 15–40. DOI: 10.1016/j.tcs.2020.12.042. URL: <https://doi.org/10.1016%2Fj.tcs.2020.12.042>.
- [1023] Fausto Spoto, Fred Mesnard, and Étienne Payet. “A termination analyzer for Java bytecode based on path-length”. In: *ACM Transactions on Programming Languages and Systems* 32.3 (Mar. 2010), pp. 1–70. DOI: 10.1145/1709093.1709095. URL: <https://doi.org/10.1145%2F1709093.1709095>.
- [1024] Stephanie Spranger and François Bry. “Temporal Data Modeling and Reasoning for Information Systems”. en. In: (2006). DOI: 10.5282/UBM/EPUB.14897. URL: <https://epub.ub.uni-muenchen.de/id/eprint/14897>.
- [1025] Sergey Staroletov. “Automatic Proving of Stability of the Cyber-Physical Systems in the Sense of Lyapunov with KeYmaera”. In: *2021 28th Conference of Open Innovations Association (FRUCT)*. IEEE, Jan. 2021. DOI: 10.23919/fruct50888.2021.9347586. URL: <https://doi.org/10.23919%2Ffruct50888.2021.9347586>.
- [1026] William B. Starr. “A preference semantics for imperatives”. In: *Semantics and Pragmatics* 13.6 (July 2020), pp. 1–60. DOI: 10.3765/sp.13.6. URL: <https://doi.org/10.3765%2Fsp.13.6>.

- [1027] William B. Starr. “Dynamic Expressivism about Deontic Modality”. In: *Deontic Modality*. Oxford University Press, June 2016, pp. 355–394. DOI: 10.1093/acprof:oso/9780198717928.003.0013. URL: <https://doi.org/10.1093%2Facprof%3Aoso%2F9780198717928.003.0013>.
- [1028] Mark Steedman. “Embodied compositionality”. In: *Physics of Life Reviews* 7.4 (Dec. 2010), pp. 418–420. DOI: 10.1016/j.plrev.2010.11.005. URL: <https://doi.org/10.1016%2Fj.plrev.2010.11.005>.
- [1029] Mark Steedman. “Formalizing Affordance”. In: *Proceedings of the Twenty-Fourth Annual Conference of the Cognitive Science Society*. Routledge, Apr. 2019, pp. 834–839. DOI: 10.4324/9781315782379-178. URL: <https://doi.org/10.4324%2F9781315782379-178>.
- [1030] Andrei Stănescu et al. “Semantics-based program verifiers for all languages”. In: *Proceedings of the 2016 ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications*. ACM, Oct. 2016. DOI: 10.1145/2983990.2984027. URL: <https://doi.org/10.1145%2F2983990.2984027>.
- [1031] G. Stefanoni et al. “The Complexity of Answering Conjunctive and Navigational Queries over OWL 2 EL Knowledge Bases”. In: *Journal of Artificial Intelligence Research* 51 (Dec. 2014), pp. 645–705. DOI: 10.1613/jair.4457. URL: <https://doi.org/10.1613%2Fjair.4457>.
- [1032] Bernhard Steffen. “The physics of software tools: SWOT analysis and vision”. In: *International Journal on Software Tools for Technology Transfer* 19.1 (Jan. 2017), pp. 1–7. DOI: 10.1007/s10009-016-0446-x. URL: <https://doi.org/10.1007%2Fs10009-016-0446-x>.
- [1033] Dominic Steinhöfel. “Ever Change a Running System: Structured Software Reengineering Using Automatically Proven-Correct Transformation Rules”. In: *Ernst Denert Award for Software Engineering 2020*. Springer International Publishing, 2022, pp. 197–226. DOI: 10.1007/978-3-030-83128-8\_10. URL: [https://doi.org/10.1007%2F978-3-030-83128-8\\_10](https://doi.org/10.1007%2F978-3-030-83128-8_10).
- [1034] Dominic Steinhöfel and Reiner Hähnle. “Abstract Execution”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 319–336. DOI: 10.1007/978-3-030-30942-8\_20. URL: [https://doi.org/10.1007%2F978-3-030-30942-8\\_20](https://doi.org/10.1007%2F978-3-030-30942-8_20).
- [1035] Dominic Steinhöfel and Reiner Hähnle. “Modular, Correct Compilation with Automatic Soundness Proofs”. In: *Leveraging Applications of Formal Methods, Verification and Validation. Modeling*. Springer International Publishing, 2018, pp. 424–447. DOI: 10.1007/978-3-030-03418-4\_25. URL: [https://doi.org/10.1007%2F978-3-030-03418-4\\_25](https://doi.org/10.1007%2F978-3-030-03418-4_25).
- [1036] Dominic Steinhöfel and Reiner Hähnle. “The Trace Modality”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2020, pp. 124–140. DOI: 10.1007/978-3-030-38808-9\_8. URL: [https://doi.org/10.1007%2F978-3-030-38808-9\\_8](https://doi.org/10.1007%2F978-3-030-38808-9_8).



- [1037] Dominic Steinhöfel and Nathan Wasser. “A New Invariant Rule for the Analysis of Loops with Non-standard Control Flows”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2017, pp. 279–294. DOI: 10.1007/978-3-319-66845-1\_18. URL: [https://doi.org/10.1007%2F978-3-319-66845-1\\_18](https://doi.org/10.1007%2F978-3-319-66845-1_18).
- [1038] Kurt Stenzel, Holger Grandy, and Wolfgang Reif. “Verification of Java Programs with Generics”. In: *Algebraic Methodology and Software Technology*. Springer Berlin Heidelberg, pp. 315–329. DOI: 10.1007/978-3-540-79980-1\_24. URL: [https://doi.org/10.1007%2F978-3-540-79980-1\\_24](https://doi.org/10.1007%2F978-3-540-79980-1_24).
- [1039] Kurt Stenzel, Nina Moebius, and Wolfgang Reif. “Formal verification of QVT transformations for code generation”. In: *Software & Systems Modeling* 14.2 (June 2013), pp. 981–1002. DOI: 10.1007/s10270-013-0351-7. URL: <https://doi.org/10.1007%2Fs10270-013-0351-7>.
- [1040] Sandro Stucki et al. “Gray-Box Monitoring of Hyperproperties”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2019, pp. 406–424. DOI: 10.1007/978-3-030-30942-8\_25. URL: [https://doi.org/10.1007%2F978-3-030-30942-8\\_25](https://doi.org/10.1007%2F978-3-030-30942-8_25).
- [1041] Sandro Stucki et al. “Gray-box monitoring of hyperproperties with an application to privacy”. In: *Formal Methods in System Design* 58.1-2 (Feb. 2021), pp. 126–159. DOI: 10.1007/s10703-020-00358-w. URL: <https://doi.org/10.1007%2Fs10703-020-00358-w>.
- [1042] Aaron Stump. “Programming with Proofs: Language-Based Approaches to Totally Correct Software”. In: *Verified Software: Theories, Tools, Experiments*. Springer Berlin Heidelberg, 2008, pp. 502–509. DOI: 10.1007/978-3-540-69149-5\_55. URL: [https://doi.org/10.1007%2F978-3-540-69149-5\\_55](https://doi.org/10.1007%2F978-3-540-69149-5_55).
- [1043] Aaron Stump et al. “A Rewriting View of Simple Typing”. In: *Logical Methods in Computer Science* Volume 9, Issue 1 (Feb. 2013). DOI: 10.2168/lmcs-9(1:4)2013. URL: <https://doi.org/10.2168%2Flmcs-9%281%3A4%292013>.
- [1044] Yu-Shan Sun, Daniel Welch, and Murali Sitaraman. “F-IDEs with Features and VCs Designed to Assist Human Reasoning When Verification Fails”. In: *Electronic Proceedings in Theoretical Computer Science* 349 (Nov. 2021), pp. 51–67. DOI: 10.4204/eptcs.349.4. URL: <https://doi.org/10.4204%2Feptcs.349.4>.
- [1045] Geoff Sutcliffe. “The Logic Languages of the TPTP World”. In: *Logic Journal of the IGPL* (Sept. 2022). DOI: 10.1093/jigpal/jzac068. URL: <https://doi.org/10.1093%2Fjigpal%2Fjzac068>.
- [1046] Philippe Suter, Mirco Dotta, and Viktor Kuncak. “Decision procedures for algebraic data types with abstractions”. In: *Proceedings of the 37th annual ACM SIGPLAN-SIGACT symposium on Principles of programming languages*. ACM, Jan. 2010. DOI: 10.1145/1706299.1706325. URL: <https://doi.org/10.1145%2F1706299.1706325>.
- [1047] Suter, Philippe Paul Henri. “Programming with Specifications”. en. In: (2012). DOI: 10.5075/EPFL-THESIS-5581. URL: <http://infoscience.epfl.ch/record/182684>.

- [1048] Kasper Svendsen, Lars Birkedal, and Matthew Parkinson. “Verifying Generics and Delegates”. In: *ECOOP 2010 – Object-Oriented Programming*. Springer Berlin Heidelberg, 2010, pp. 175–199. DOI: 10.1007/978-3-642-14107-2\_9. URL: [https://doi.org/10.1007%2F978-3-642-14107-2\\_9](https://doi.org/10.1007%2F978-3-642-14107-2_9).
- [1049] Asmae Heydari Tabar, Richard Bubel, and Reiner Hähnle. “Automatic loop invariant generation for data dependence analysis”. In: *Proceedings of the IEEE/ACM 10th International Conference on Formal Methods in Software Engineering*. ACM, May 2022. DOI: 10.1145/3524482.3527649. URL: <https://doi.org/10.1145%2F3524482.3527649>.
- [1050] Tsubasa Takagi. “Semantic Analysis of a Linear Temporal Extension of Quantum Logic and Its Dynamic Aspect”. In: *ACM Transactions on Computational Logic* 24.3 (Mar. 2023), pp. 1–21. DOI: 10.1145/3576926. URL: <https://doi.org/10.1145%2F3576926>.
- [1051] Andrew Tedder and Marta Bilková. “Relevant propositional dynamic logic”. In: *Synthese* 200.3 (May 2022). DOI: 10.1007/s11229-022-03732-9. URL: <https://doi.org/10.1007%2Fs11229-022-03732-9>.
- [1052] Eugenia Ternovska. “An Algebra of Modular Systems: Static and Dynamic Perspectives”. In: *Frontiers of Combining Systems*. Springer International Publishing, 2019, pp. 94–111. DOI: 10.1007/978-3-030-29007-8\_6. URL: [https://doi.org/10.1007%2F978-3-030-29007-8\\_6](https://doi.org/10.1007%2F978-3-030-29007-8_6).
- [1053] “The Role of Event-Based Representations and Reasoning in Language”. In: *Computational Analysis of Storylines*. Cambridge University Press, Nov. 2021, pp. 23–46. DOI: 10.1017/9781108854221.003. URL: <https://doi.org/10.1017%2F9781108854221.003>.
- [1054] Thomas Thüm et al. “Family-based deductive verification of software product lines”. In: *Proceedings of the 11th International Conference on Generative Programming and Component Engineering*. ACM, Sept. 2012. DOI: 10.1145/2371401.2371404. URL: <https://doi.org/10.1145%2F2371401.2371404>.
- [1055] Thomas Thüm et al. “Feature-Oriented Contract Composition”. In: *Proceedings of the 23rd International Systems and Software Product Line Conference - Volume A*. ACM, Sept. 2019. DOI: 10.1145/3336294.3342374. URL: <https://doi.org/10.1145%2F3336294.3342374>.
- [1056] Thomas Thüm et al. “Potential synergies of theorem proving and model checking for software product lines”. In: *Proceedings of the 18th International Software Product Line Conference - Volume 1*. ACM, Sept. 2014. DOI: 10.1145/2648511.2648530. URL: <https://doi.org/10.1145%2F2648511.2648530>.
- [1057] Thomas Thüm et al. “Variability Hiding in Contracts for Dependent Software Product Lines”. In: *Proceedings of the Tenth International Workshop on Variability Modelling of Software-intensive Systems*. ACM, Jan. 2016. DOI: 10.1145/2866614.2866628. URL: <https://doi.org/10.1145%2F2866614.2866628>.

- [1058] Dmitry Tishkovsky, Renate A. Schmidt, and Mohammad Khodadadi. “MetTeL<sup>2</sup>: Towards a Tableau Prover Generation Platform”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/1c73. URL: <https://doi.org/10.29007%2F1c73>.
- [1059] K. Trentelman. “Proving correctness of JavaCard DL taclets using Bali”. In: *Third IEEE International Conference on Software Engineering and Formal Methods (SEFM’05)*. IEEE, 2005. DOI: 10.1109/sefm.2005.37. URL: <https://doi.org/10.1109%2Fsefm.2005.37>.
- [1060] Takeshi Tsukada and Atsushi Igarashi. “A Logical Foundation for Environment Classifiers”. In: *Logical Methods in Computer Science* Volume 6, Issue 4 (Dec. 2010). DOI: 10.2168/lmcs-6(4:8)2010. URL: <https://doi.org/10.2168%2Flmcs-6%284%3A8%292010>.
- [1061] Paolo Turrini, John-Jules Ch. Meyer, and Cristiano Castelfranchi. “Coping with shame and sense of guilt: a Dynamic Logic Account”. In: *Autonomous Agents and Multi-Agent Systems* 20.3 (Apr. 2009), pp. 401–420. DOI: 10.1007/s10458-009-9083-z. URL: <https://doi.org/10.1007%2Fs10458-009-9083-z>.
- [1062] Sara L. Uckelman. “Medieval Disputationes de obligationibus as Formal Dialogue Systems”. In: *Argumentation* 27.2 (Mar. 2012), pp. 143–166. DOI: 10.1007/s10503-012-9266-7. URL: <https://doi.org/10.1007%2Fs10503-012-9266-7>.
- [1063] Mattias Ulbrich. “A Dynamic Logic for Unstructured Programs with Embedded Assertions”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2011, pp. 168–182. DOI: 10.1007/978-3-642-18070-5\_12. URL: [https://doi.org/10.1007%2F978-3-642-18070-5\\_12](https://doi.org/10.1007%2F978-3-642-18070-5_12).
- [1064] Mattias Ulbrich et al. “A Proof Assistant for Alloy Specifications”. In: *Tools and Algorithms for the Construction and Analysis of Systems*. Springer Berlin Heidelberg, 2012, pp. 422–436. DOI: 10.1007/978-3-642-28756-5\_29. URL: [https://doi.org/10.1007%2F978-3-642-28756-5\\_29](https://doi.org/10.1007%2F978-3-642-28756-5_29).
- [1065] Mattias Ulbrich et al. “On Proving Alloy Specifications Using KeY”. In: (2011). DOI: 10.5445/IR/1000025523. URL: <http://digbib.ubka.uni-karlsruhe.de/volltexte/1000025523>.
- [1066] Bastian Ulke, Friedrich Steimann, and Ralf Lammel. “Partial Evaluation of OCL Expressions”. In: *2017 ACM/IEEE 20th International Conference on Model Driven Engineering Languages and Systems (MODELS)*. IEEE, Sept. 2017. DOI: 10.1109/models.2017.31. URL: <https://doi.org/10.1109%2Fmodels.2017.31>.
- [1067] Moshe Y. Vardi. “From Monadic Logic to PSL”. In: *Pillars of Computer Science*. Springer Berlin Heidelberg, pp. 656–681. DOI: 10.1007/978-3-540-78127-1\_36. URL: [https://doi.org/10.1007%2F978-3-540-78127-1\\_36](https://doi.org/10.1007%2F978-3-540-78127-1_36).
- [1068] Moshe Y. Vardi. “From Philosophical to Industrial Logics”. In: *Logic and Its Applications*. Springer Berlin Heidelberg, 2008, pp. 89–115. DOI: 10.1007/978-3-540-92701-3\_7. URL: [https://doi.org/10.1007%2F978-3-540-92701-3\\_7](https://doi.org/10.1007%2F978-3-540-92701-3_7).

- [1069] I. J. Varzinczak. “On Action Theory Change”. In: *Journal of Artificial Intelligence Research* 37 (Feb. 2010), pp. 189–246. DOI: 10.1613/jair.2959. URL: <https://doi.org/10.1613%2Fjair.2959>.
- [1070] Fernando R. Velázquez-Quesada. *Communication between agents in dynamic epistemic logic*. 2022. DOI: 10.48550/ARXIV.2210.04656. URL: <https://arxiv.org/abs/2210.04656>.
- [1071] Fernando R. Velázquez-Quesada. “Dynamic Epistemic Logic for Implicit and Explicit Beliefs”. In: *Journal of Logic, Language and Information* 23.2 (Mar. 2014), pp. 107–140. DOI: 10.1007/s10849-014-9193-0. URL: <https://doi.org/10.1007%2Fs10849-014-9193-0>.
- [1072] Fernando R. Velázquez-Quesada, Fernando Soler-Toscano, and Ángel Nepomuceno-Fernández. “An epistemic and dynamic approach to abductive reasoning: Abductive problem and abductive solution”. In: *Journal of Applied Logic* 11.4 (Dec. 2013), pp. 505–522. DOI: 10.1016/j.jal.2013.07.002. URL: <https://doi.org/10.1016%2Fj.jal.2013.07.002>.
- [1073] Helga Velroyen and Philipp Rümmer. “Non-termination Checking for Imperative Programs”. In: *Tests and Proofs*. Springer Berlin Heidelberg, pp. 154–170. DOI: 10.1007/978-3-540-79124-9\_11. URL: [https://doi.org/10.1007%2F978-3-540-79124-9\\_11](https://doi.org/10.1007%2F978-3-540-79124-9_11).
- [1074] Willem Visser, Nikolaj Bjørner, and Natarajan Shankar. “Software engineering and automated deduction”. In: *Future of Software Engineering Proceedings*. ACM, May 2014. DOI: 10.1145/2593882.2593899. URL: <https://doi.org/10.1145%2F2593882.2593899>.
- [1075] Frédéric Vogels et al. “Annotation Inference for Separation Logic Based Verifiers”. In: *Formal Techniques for Distributed Systems*. Springer Berlin Heidelberg, 2011, pp. 319–333. DOI: 10.1007/978-3-642-21461-5\_21. URL: [https://doi.org/10.1007%2F978-3-642-21461-5\\_21](https://doi.org/10.1007%2F978-3-642-21461-5_21).
- [1076] Andrei Voronkov and Irina Virbitskaite, eds. *Perspectives of System Informatics*. Springer Berlin Heidelberg, 2015. DOI: 10.1007/978-3-662-46823-4. URL: <https://doi.org/10.1007%2F978-3-662-46823-4>.
- [1077] Markus Wagner. “Maximising axiomatization coverage and minimizing regression testing time”. In: *2014 IEEE Congress on Evolutionary Computation (CEC)*. IEEE, July 2014. DOI: 10.1109/cec.2014.6900324. URL: <https://doi.org/10.1109%2Fcec.2014.6900324>.
- [1078] Markus Wagner. “Speeding up the Proof Strategy in Formal Software Verification”. In: *Proceedings of the 2016 on Genetic and Evolutionary Computation Conference Companion*. ACM, July 2016. DOI: 10.1145/2908961.2931690. URL: <https://doi.org/10.1145%2F2908961.2931690>.
- [1079] Michael Wahler, Jana Koehler, and Achim D. Brucker. “Model-Driven Constraint Engineering”. en. In: *Electronic Communications of the EASST* (2007), Volume 5: OCL for (Meta-)Models in Multiple Application Domains 2006. DOI: 10.14279/TUJ.ECEASST.5.44. URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/44>.

- [1080] Michael Wahler et al. “Efficient analysis of pattern-based constraint specifications”. In: *Software & Systems Modeling* 9.2 (Aug. 2009), pp. 225–255. DOI: 10.1007/s10270-009-0123-6. URL: <https://doi.org/10.1007%2Fs10270-009-0123-6>.
- [1081] Wahler, Michael S. “Using patterns to develop consistent design constraints”. en. PhD thesis. 2008. DOI: 10.3929/ETHZ-A-005593496. URL: <http://hdl.handle.net/20.500.11850/72803>.
- [1082] Angela Wallenburg. “Generalisation of Induction Formulae based on Proving by Symbolic Execution”. In: *EPiC Series in Computing*. Easy-Chair. DOI: 10.29007/72nn. URL: <https://doi.org/10.29007%2F72nn>.
- [1083] Igor Walukiewicz. “From Logic to Games”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2005, pp. 79–91. DOI: 10.1007/11590156\_5. URL: [https://doi.org/10.1007%2F11590156\\_5](https://doi.org/10.1007%2F11590156_5).
- [1084] Yiliang Wan et al. “A general framework for spatial data inspection and assessment”. In: *Earth Science Informatics* 8.4 (Jan. 2015), pp. 919–935. DOI: 10.1007/s12145-014-0196-9. URL: <https://doi.org/10.1007%2Fs12145-014-0196-9>.
- [1085] Hung-Hsiang Wang, Yun-Ya Shen, and Yun-Yun Hung. “Car Types and Semantics Classification Using Weka”. In: *Proceedings of the 2022 5th Artificial Intelligence and Cloud Computing Conference*. ACM, Dec. 2022. DOI: 10.1145/3582099.3582105. URL: <https://doi.org/10.1145%2F3582099.3582105>.
- [1086] Shengyi Wang et al. “Certifying graph-manipulating C programs via localizations within data structures”. In: *Proceedings of the ACM on Programming Languages* 3.OOPSLA (Oct. 2019), pp. 1–30. DOI: 10.1145/3360597. URL: <https://doi.org/10.1145%2F3360597>.
- [1087] Yanjing Wang. “Representing Imperfect Information of Procedures with Hyper Models”. In: *Logic and Its Applications*. Springer Berlin Heidelberg, 2015, pp. 218–231. DOI: 10.1007/978-3-662-45824-2\_16. URL: [https://doi.org/10.1007%2F978-3-662-45824-2\\_16](https://doi.org/10.1007%2F978-3-662-45824-2_16).
- [1088] Zhen-Ming WANG, Yi-Yun CHEN, and Zhi-Fang WANG. “Automated Theorem Prover for Pointer Logic”. In: *Journal of Software* 20.8 (Nov. 2009), pp. 2037–2050. DOI: 10.3724/sp.j.1001.2009.00572. URL: <https://doi.org/10.3724%2Fsp.j.1001.2009.00572>.
- [1089] Nathan Wasser. “Generating Specifications for Recursive Methods by Abstracting Program States”. In: *Dependable Software Engineering: Theories, Tools, and Applications*. Springer International Publishing, 2015, pp. 243–257. DOI: 10.1007/978-3-319-25942-0\_16. URL: [https://doi.org/10.1007%2F978-3-319-25942-0\\_16](https://doi.org/10.1007%2F978-3-319-25942-0_16).
- [1090] Nathan Wasser. “Transparent Treatment of for-Loops in Proofs”. In: *The Logic of Software. A Tasting Menu of Formal Methods*. Springer International Publishing, 2022, pp. 500–519. DOI: 10.1007/978-3-031-08166-8\_24. URL: [https://doi.org/10.1007%2F978-3-031-08166-8\\_24](https://doi.org/10.1007%2F978-3-031-08166-8_24).

- [1091] Daniel Wasserrab and Denis Lohner. “Proving Information Flow Non-interference by Reusing a Machine-Checked Correctness Proof for Slicing”. In: *EPiC Series in Computing*. EasyChair. DOI: 10.29007/nnzj. URL: <https://doi.org/10.29007%2Fnnzj>.
- [1092] G. Wedzinga and K. Wiegink. “Using CHARTER tools to develop a safety-critical avionics application in Java”. In: *Proceedings of the 10th International Workshop on Java Technologies for Real-time and Embedded Systems*. ACM, Oct. 2012. DOI: 10.1145/2388936.2388958. URL: <https://doi.org/10.1145%2F2388936.2388958>.
- [1093] Bruce W. Weide et al. “Incremental Benchmarks for Software Verification Tools and Techniques”. In: *Verified Software: Theories, Tools, Experiments*. Springer Berlin Heidelberg, pp. 84–98. DOI: 10.1007/978-3-540-87873-5\_10. URL: [https://doi.org/10.1007%2F978-3-540-87873-5\\_10](https://doi.org/10.1007%2F978-3-540-87873-5_10).
- [1094] Benjamin Weiß. “Predicate abstraction in a program logic calculus”. In: *Science of Computer Programming* 76.10 (Oct. 2011), pp. 861–876. DOI: 10.1016/j.scico.2010.06.008. URL: <https://doi.org/10.1016%2Fj.scico.2010.06.008>.
- [1095] Daniel Welch. “Formalization Integrated Development Environments”. In: *ACM SIGSOFT Software Engineering Notes* 43.3 (Dec. 2018), pp. 17–17. DOI: 10.1145/3229783.3229795. URL: <https://doi.org/10.1145%2F3229783.3229795>.
- [1096] Daniel Welch et al. “Formalization IDEs Integrated with a Verifying Compiler”. In: *Proceedings of the 12th Workshop on Implementation, Compilation, Optimization of Object-Oriented Languages, Programs and Systems*. ACM, June 2017. DOI: 10.1145/3098572.3098580. URL: <https://doi.org/10.1145%2F3098572.3098580>.
- [1097] Yannick Welsch and Arnd Poetzsch-Heffter. “Verifying backwards compatibility of object-oriented libraries using Boogie”. In: *Proceedings of the 14th Workshop on Formal Techniques for Java-like Programs*. ACM, June 2012. DOI: 10.1145/2318202.2318209. URL: <https://doi.org/10.1145%2F2318202.2318209>.
- [1098] Frank Werner. “Applied Formal Methods in Wireless Sensor Networks”. en. In: (2009). DOI: 10.5445/IR/1000012355. URL: <https://publikationen.bibliothek.kit.edu/1000012355>.
- [1099] Matthias Westphal et al. “On Qualitative Route Descriptions”. In: *Journal of Philosophical Logic* 44.2 (Sept. 2014), pp. 177–201. DOI: 10.1007/s10992-014-9333-7. URL: <https://doi.org/10.1007%2Fs10992-014-9333-7>.
- [1100] R. J. Wieringa and J. -J. Ch. Meyer. “Actors, actions, and initiative in normative system specification”. In: *Annals of Mathematics and Artificial Intelligence* 7.1-4 (Mar. 1993), pp. 289–346. DOI: 10.1007/bf01556356. URL: <https://doi.org/10.1007%2Fbf01556356>.

- [1101] R. J. Wieringa et al. “The inheritance of dynamic and deontic integrity constraints or: Does the boss have more rights?” In: *Annals of Mathematics and Artificial Intelligence* 3.2-4 (June 1991), pp. 393–428. DOI: 10.1007/bf01530931. URL: <https://doi.org/10.1007%2Fbf01530931>.
- [1102] R. Wille, M. Soeken, and R. Drechsler. “Debugging of inconsistent UML/OCL models”. In: *2012 Design, Automation & Test in Europe Conference & Exhibition (DATE)*. IEEE, Mar. 2012. DOI: 10.1109/date.2012.6176655. URL: <https://doi.org/10.1109%2Fdate.2012.6176655>.
- [1103] Robert Wille et al. “Towards a Generic Verification Methodology for System Models”. In: *Design, Automation & Test in Europe Conference & Exhibition (DATE), 2013*. IEEE Conference Publications, 2013. DOI: 10.7873/date.2013.248. URL: <https://doi.org/10.7873%2Fdate.2013.248>.
- [1104] Fabian Wolff et al. “Modular specification and verification of closures in Rust”. In: *Proceedings of the ACM on Programming Languages* 5.OOP-SLA (Oct. 2021), pp. 1–29. DOI: 10.1145/3485522. URL: <https://doi.org/10.1145%2F3485522>.
- [1105] Frank Wolter and Michael Zakharyashev. “A logic for metric and topology”. In: *Journal of Symbolic Logic* 70.3 (Sept. 2005), pp. 795–828. DOI: 10.2178/jsl/1122038915. URL: <https://doi.org/10.2178%2Fjsl%2F1122038915>.
- [1106] Frank Wolter and Michael Zakharyashev. “Undecidability of the unification and admissibility problems for modal and description logics”. In: *ACM Transactions on Computational Logic* 9.4 (Aug. 2008), pp. 1–20. DOI: 10.1145/1380572.1380574. URL: <https://doi.org/10.1145%2F1380572.1380574>.
- [1107] U.E. Wolter, A.R. Martini, and E.H. Häusler. “Indexed and fibered structures for partial and total correctness assertions”. In: *Mathematical Structures in Computer Science* 32.9 (Sept. 2022), pp. 1145–1175. DOI: 10.1017/s0960129522000275. URL: <https://doi.org/10.1017%2Fs0960129522000275>.
- [1108] Michael Wooldridge and Wiebe van der Hoek. “On obligations and normative ability: Towards a logical analysis of the social contract”. In: *Journal of Applied Logic* 3.3-4 (Sept. 2005), pp. 396–420. DOI: 10.1016/j.jal.2005.04.006. URL: <https://doi.org/10.1016%2Fj.jal.2005.04.006>.
- [1109] Hao Wu. “MaxUSE: A Tool for Finding Achievable Constraints and Conflicts for Inconsistent UML Class Diagrams”. In: *Lecture Notes in Computer Science*. Springer International Publishing, 2017, pp. 348–356. DOI: 10.1007/978-3-319-66845-1\_23. URL: [https://doi.org/10.1007%2F978-3-319-66845-1\\_23](https://doi.org/10.1007%2F978-3-319-66845-1_23).
- [1110] Lijun Wu et al. “A concurrent dynamic logic of knowledge, belief and certainty for multi-agent systems”. In: *Knowledge-Based Systems* 23.2 (Mar. 2010), pp. 162–168. DOI: 10.1016/j.knosys.2009.11.017. URL: <https://doi.org/10.1016%2Fj.knosys.2009.11.017>.

- [1111] Jian Xiang, Nathan Fulton, and Stephen Chong. “Relational Analysis of Sensor Attacks on Cyber-Physical Systems”. In: *2021 IEEE 34th Computer Security Foundations Symposium (CSF)*. IEEE, June 2021. DOI: 10.1109/csf51468.2021.00035. URL: <https://doi.org/10.1109%2Fcsf51468.2021.00035>.
- [1112] Ye Xiaolie and Liao Lejian. “An Ontology-Based Proposal to Formalize Secure Sessions in Web Services”. In: *2010 Second International Conference on Networks Security, Wireless Communications and Trusted Computing*. IEEE, 2010. DOI: 10.1109/nswctc.2010.259. URL: <https://doi.org/10.1109%2Fnsctc.2010.259>.
- [1113] Luyi Xing et al. “Upgrading Your Android, Elevating My Malware: Privilege Escalation through Mobile OS Updating”. In: *2014 IEEE Symposium on Security and Privacy*. IEEE, May 2014. DOI: 10.1109/sp.2014.32. URL: <https://doi.org/10.1109%2Fsp.2014.32>.
- [1114] Yang Yalan and Tang Wei. “An Effective Language Convention Model Based on Deep Structured Learning and Natural Language Processing for Higher Education”. In: *ACM Transactions on Asian and Low-Resource Language Information Processing* (May 2023). DOI: 10.1145/3490502. URL: <https://doi.org/10.1145%2F3490502>.
- [1115] Huiqiang Yan et al. “Platform-Based Product Configuration Research”. In: *2008 Second International Symposium on Intelligent Information Technology Application*. IEEE, Dec. 2008. DOI: 10.1109/iita.2008.170. URL: <https://doi.org/10.1109%2Fiita.2008.170>.
- [1116] Chen Yang et al. “\*Application of BP Neural Network Model in Surface Water Quality Evaluation”. In: *Proceedings of the 2022 11th International Conference on Networks, Communication and Computing*. ACM, Dec. 2022. DOI: 10.1145/3579895.3579932. URL: <https://doi.org/10.1145%2F3579895.3579932>.
- [1117] Guowei Yang et al. “Advances in Symbolic Execution”. In: *Advances in Computers*. Elsevier, 2019, pp. 225–287. DOI: 10.1016/bs.adcom.2018.10.002. URL: <https://doi.org/10.1016%2Fbs.adcom.2018.10.002>.
- [1118] Kenro Yatake and Takuya Katayama. “An executable object-oriented semantics and its application to firewall verification”. In: *Software & Systems Modeling* 10.4 (Apr. 2010), pp. 515–536. DOI: 10.1007/s10270-010-0160-1. URL: <https://doi.org/10.1007%2Fs10270-010-0160-1>.
- [1119] Jooyong Yi et al. “Software Change Contracts”. In: *ACM Transactions on Software Engineering and Methodology* 24.3 (May 2015), pp. 1–43. DOI: 10.1145/2729973. URL: <https://doi.org/10.1145%2F2729973>.
- [1120] Ziyi You, JunTao Li, and Xiaoyao Xie. “Extension and application of protocol composition logic”. In: *2010 2nd International Conference on Computer Engineering and Technology*. IEEE, Apr. 2010. DOI: 10.1109/iccet.2010.5485720. URL: <https://doi.org/10.1109%2Ficcet.2010.5485720>.



- [1121] Fang Yu, Tevfik Bultan, and Erik Peterson. “Automated size analysis for OCL”. In: *Proceedings of the the 6th joint meeting of the European software engineering conference and the ACM SIGSOFT symposium on The foundations of software engineering*. ACM, Sept. 2007. DOI: 10.1145/1287624.1287671. URL: <https://doi.org/10.1145/2F1287624.1287671>.
- [1122] Pan yu, Cao cungen, and Sui yuefei. “A Logic of Believable Agents”. In: *2006 5th IEEE International Conference on Cognitive Informatics*. IEEE, July 2006. DOI: 10.1109/coginf.2006.365695. URL: <https://doi.org/10.1109/2Fcoginf.2006.365695>.
- [1123] Antonio Yuste-Ginel and Andreas Herzig. “Qualitative uncertainty and dynamics of argumentation through dynamic logic”. In: *Journal of Logic and Computation* 33.2 (Feb. 2023), pp. 370–405. DOI: 10.1093/logcom/exac098. URL: <https://doi.org/10.1093/2Flogcom%2Fexac098>.
- [1124] Eduardo Zambon. “Using Graph Transformations and Graph Abstractions for Software Verification”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2010, pp. 416–418. DOI: 10.1007/978-3-642-15928-2\_37. URL: [https://doi.org/10.1007/2F978-3-642-15928-2\\_37](https://doi.org/10.1007/2F978-3-642-15928-2_37).
- [1125] Karen Zee, Viktor Kuncak, and Martin Rinard. “Verifying linked data structure implementations”. In: *2008 IEEE International Symposium on Parallel and Distributed Processing*. IEEE, Apr. 2008. DOI: 10.1109/ipdps.2008.4536430. URL: <https://doi.org/10.1109/2Fipdps.2008.4536430>.
- [1126] Karen Zee, Viktor Kuncak, and Martin C. Rinard. “An integrated proof language for imperative programs”. In: *Proceedings of the 30th ACM SIGPLAN Conference on Programming Language Design and Implementation*. ACM, June 2009. DOI: 10.1145/1542476.1542514. URL: <https://doi.org/10.1145/2F1542476.1542514>.
- [1127] Frank Zeyda, Ana Cavalcanti, and Andy Wellings. “The Safety-Critical Java Mission Model: A Formal Account”. In: *Formal Methods and Software Engineering*. Springer Berlin Heidelberg, 2011, pp. 49–65. DOI: 10.1007/978-3-642-24559-6\_6. URL: [https://doi.org/10.1007/2F978-3-642-24559-6\\_6](https://doi.org/10.1007/2F978-3-642-24559-6_6).
- [1128] Xiaoxiang Zhai et al. “A Unified Modeling and Verifying Framework for Cyber Physical Systems”. In: *2012 12th International Conference on Quality Software*. IEEE, Aug. 2012. DOI: 10.1109/qsic.2012.11. URL: <https://doi.org/10.1109/2Fqsic.2012.11>.
- [1129] Bohua Zhan et al. “Design of Point-and-Click User Interfaces for Proof Assistants”. In: *Formal Methods and Software Engineering*. Springer International Publishing, 2019, pp. 86–103. DOI: 10.1007/978-3-030-32409-4\_6. URL: [https://doi.org/10.1007/2F978-3-030-32409-4\\_6](https://doi.org/10.1007/2F978-3-030-32409-4_6).
- [1130] Dongmo Zhang. “A Model of Intention with (Un)Conditional Commitments”. In: *Lecture Notes in Computer Science*. Springer Berlin Heidelberg, 2012, pp. 698–709. DOI: 10.1007/978-3-642-32695-0\_61. URL: [https://doi.org/10.1007/2F978-3-642-32695-0\\_61](https://doi.org/10.1007/2F978-3-642-32695-0_61).

- [1131] Fan Zhang et al. “CASAT-HOONT: Computer Aided Software Analysis Tool Based on High Order Object-Oriented Modeling Technique”. In: *2013 IEEE 37th Annual Computer Software and Applications Conference*. IEEE, July 2013. DOI: 10.1109/compsac.2013.136. URL: <https://doi.org/10.1109%2Fcompsac.2013.136>.
- [1132] Hengchu Zhang et al. “Verifying an HTTP Key-Value Server with Interaction Trees and VST”. en. In: Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021. DOI: 10.4230/LIPICS.ITP.2021.32. URL: <https://drops.dagstuhl.de/opus/volltexte/2021/13927/>.
- [1133] Wenhui Zhang and Cong Du. “Research on web process model for dynamic binding”. In: *2011 Second International Conference on Mechanic Automation and Control Engineering*. IEEE, July 2011. DOI: 10.1109/mace.2011.5988820. URL: <https://doi.org/10.1109%2Fmace.2011.5988820>.
- [1134] Xiaowang Zhang and Jan Van den Bussche. “On the Power of SPARQL in Expressing Navigational Queries”. In: *The Computer Journal* 58.11 (Nov. 2014), pp. 2841–2851. DOI: 10.1093/comjnl/bxu128. URL: <https://doi.org/10.1093%2Fcomjnl%2Fbxu128>.
- [1135] Yuanrui Zhang, Frédéric Mallet, and Zhiming Liu. “A dynamic logic for verification of synchronous models based on theorem proving”. In: *Frontiers of Computer Science* 16.4 (Apr. 2022). DOI: 10.1007/s11704-022-1374-4. URL: <https://doi.org/10.1007%2Fs11704-022-1374-4>.
- [1136] Yuanrui Zhang et al. “A clock-based dynamic logic for the verification of CCSL specifications in synchronous systems”. In: *Science of Computer Programming* 203 (Mar. 2021), p. 102591. DOI: 10.1016/j.scico.2020.102591. URL: <https://doi.org/10.1016%2Fj.scico.2020.102591>.
- [1137] Chunlai Zhou. “Approximating Bisimilarity for Markov Processes”. In: *Electronic Notes in Theoretical Computer Science* 298 (Nov. 2013), pp. 427–440. DOI: 10.1016/j.entcs.2013.12.007. URL: <https://doi.org/10.1016%2Fj.entcs.2013.12.007>.
- [1138] Yi Zhou and Yan Zhang. “Modeling Abstract Behavior: A Dynamic Logic Approach”. In: *AI 2009: Advances in Artificial Intelligence*. Springer Berlin Heidelberg, 2009, pp. 538–546. DOI: 10.1007/978-3-642-10439-8\_54. URL: [https://doi.org/10.1007%2F978-3-642-10439-8\\_54](https://doi.org/10.1007%2F978-3-642-10439-8_54).
- [1139] Zhenyu Zhou et al. “Tardis”. In: *Proceedings of the ACM SIGCOMM Symposium on SDN Research (SOSR)*. ACM, Oct. 2021. DOI: 10.1145/3482898.3483355. URL: <https://doi.org/10.1145%2F3482898.3483355>.
- [1140] Haiyan Zhuang. “A secure framework for web service interaction”. In: *2011 International Conference on Electric Information and Control Engineering*. IEEE, Apr. 2011. DOI: 10.1109/iceice.2011.5777664. URL: <https://doi.org/10.1109%2Ficeice.2011.5777664>.

- [1141] Daniel M. Zimmerman and Rinkesh Nagmoti. “JMLUnit: The Next Generation”. In: *Formal Verification of Object-Oriented Software*. Springer Berlin Heidelberg, 2011, pp. 183–197. DOI: 10.1007/978-3-642-18070-5\_13. URL: [https://doi.org/10.1007/978-3-642-18070-5\\_13](https://doi.org/10.1007/978-3-642-18070-5_13).