

## BIBLIOGRAPHY

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- [1] M. Leucker and C. Schallhart, "A brief account of Runtime Verification," *The Journal of Logic and Algebraic Programming*, vol. 78, pp. 293-303, 2009.
- [2] B. Bonakdarpour, P. Fraigniaud, S. Rajsbaum and C. Travers, "Challenges in fault-tolerant distributed runtime verification," in *International Symposium on Leveraging Applications of Formal Methods*, 2016.
- [3] A. Bauer, M. Leucker and C. Schallhart, "Comparing LTL semantics for runtime verification," *Logic and Computation*, vol. 20, pp. 651-674, 2010.
- [4] A. Bauer, M. Leucker and C. Schallhart, "Runtime verification for LTL and TLTL," *TOSEM*, vol. 20, p. 14, 2011.
- [5] E. M. Clarke and E. A. Emerson, "Design and synthesis of synchronization skeletons using branching time temporal logic," in *Workshop on Logic of Programs*, Springer, 1981, pp. 52-71.
- [6] A. Francalanza, L. Aceto and A. Ingólfssdóttir, "Monitorability for the Hennessy-Milner Logic with Recursion," in *Formal Methods in System Design*, 2017.
- [7] R. Fagin, J. Y. Halpern, Y. Moses and M. Y. Vardi, *Reasoning About Knowledge*, MIT Press, 1995.
- [8] P. Blackburn, M. De Rijke and Y. Venema, *Modal Logic*, Cambridge University Press, 2002.
- [9] R. E. Ladner, "The computational complexity of provability in systems of modal propositional logic," *SIAM journal on computing*, vol. 6, pp. 467-480, 1977.
- [10] J. Y. Halpern and Y. Moses, "A guide to completeness and complexity for modal logics of knowledge and belief," *Artificial Intelligence*, vol. 54, pp. 319-379, 1992.
- [11] P. M. Dung, "On the acceptability of arguments and its fundamental role in nonmonotonic reasoning, logic programming and n-person games," in *Artificial intelligence*, vol. 77, 1995, pp. 321-357.
- [12] S. Artemov, "The logic of justification," *The Review of Symbolic Logic*, vol. 1, pp. 477-513, 12 2008.
- [13] S. Artemov, "Explicit provability and constructive semantics," *Bulletin of Symbolic Logic*, vol. 7, pp. 1-36, 3 2001.

- [14] J. Halpern and L. Rêgo, "Characterizing the NP-PSPACE Gap in the Satisfiability Problem for Modal Logic," *Journal of Logic and Computation*, vol. 17, pp. 795-806, 2007.
- [15] M. Fitting, "Modal logics, justification logics, and realization," *Annals of Pure and Applied Logic*, vol. 167, pp. 615-648, 2016.
- [16] G. Boella, J. Hulstijn and L. Van Der Torre, "A logic of abstract argumentation," in *Argumentation in Multi-Agent Systems*, 29-41, Springer Berlin Heidelberg, 2006.
- [17] M. Caminada and D. Gabbay, *A Logical Account of Formal Argumentation*. In *Studia Logica*, vol. 93, 2009, pp. 109-145.
- [18] D. Grossi, "On the Logic of Argumentation Theory," in *Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems: Volume*, 2010.
- [19] S. Artemov and R. Kuznets, "Logical omniscience via proof complexity.," in *International Workshop on Computer Science Logic*, Heidelberg, : Springer Berlin, 2006.
- [20] S. Artemov and R. Kuznets, "Logical omniscience as a computational complexity problem.," in *Proceedings of the 12th Conference on Theoretical Aspects of Rationality and Knowledge*, 2009.
- [21] R. Alur, "Timed automata," in *International Conference on Computer Aided Verification*, 1999.
- [22] A. Pnueli, "The temporal logic of programs," *Foundations of Computer Science*, pp. 46-57, 1977.
- [23] C. Eisner, D. Fisman, J. Havlicek, Y. Lustig, A. McIsaac and D. V. Campenhout, "Reasoning with temporal logic on truncated paths," in *of LNCS*, vol. 2725, Springer, 2003, pp. 27-39.
- [24] A. Bauer, M. Leucker and C. Schallhart, "The good, the bad, and the ugly, but how ugly is ugly?," in *of LNCS*, vol. 4839, Springer, 2007, pp. 126-138.
- [25] D. Kozen, "Results on the propositional  $\mu$ -calculus," *Theoretical Computer Science*, vol. 27, pp. 333-354, 1983.
- [26] L. Aceto, A. Ingólfssdóttir, K. G. Larsen and J. Srba, *Reactive Systems: Modelling, Specification and Verification*, New York, NY, USA: Cambridge Univ. Press, 2007.

- [27] K. G. Larsen, "Proof systems for satisfiability in Hennessy-Milner logic with recursion," *Theoretical Computer Science*, vol. 72, pp. 265-288, 1990.
- [28] A. Francalanza, A. Gauci and G. J. Pace, "Distributed system contract monitoring," *The Journal of Logic and Algebraic Programming*, vol. 82, pp. 186-215, 2013.
- [29] K. Sen, A. Vardhan, G. Agha and G. Rosu, Decentralized runtime analysis of multithreaded applications, In: IPPS, 2006.
- [30] C. Colombo and Y. Falcone, "Organising LTL monitors over distributed systems with a global clock," *Formal Methods in System Design*, vol. 49, pp. 109-158, 2016.
- [31] A. K. Bauer and Y. Falcone, "Decentralised LTL monitoring," in *Proceedings of FM'12*, 2012, pp. 85-100.
- [32] S. Graf, D. Peled and S. Quinton, "Monitoring distributed systems using knowledge," in *Formal Techniques for Distributed Systems*, Springer, 2011, pp. 183-197.
- [33] B. Bonakdarpour, P. Fraigniaud, S. Rajsbaum, D. Rosenblueth and C. Travers, "Decentralised asynchronous crash-resilient runtime verification," in *Proceedings of the 27th International Conference on Concurrency Theory (CONCUR'16)*, volume 59 of *LIPICs*, vol. 16, 2016, pp. 1-16.
- [34] P. Fraigniaud, S. Rajsbaum and C. Travers, "Locality and checkability in wait-free computing," *Distributed Computing*, vol. 26, pp. 223-242, 2013.
- [35] P. Fraigniaud, S. Rajsbaum and C. Travers, "On the Number of Opinions Needed for Fault-Tolerant Run-Time Monitoring in Distributed Systems.," in *RV*, 2014.
- [36] P. Fraigniaud, S. Rajsbaum, M. Roy and C. Travers, "The opinion number of set-agreement," in *International Conference on Principles of Distributed Systems*, 2014.
- [37] A. Baltag, B. Renne and S. Smets, "The logic of justified belief change, soft evidence and defeasible knowledge," in *Logic, Language, Information and Computation, 19th International Workshop, WoLLIC 2012, Buenos Aires, Argentina, September 3--6, 2012, Proceedings*, volume 7456 of *Lecture Notes in Computer Science*, 2012.
- [38] I. A. Letia and A. Groza, "Arguing with justifications between collaborating agents," in *Argumentation in Multi-Agent Systems, 8th International Workshop, ArgMAS*, vol. 7543, P. McBurney, S. Parsons and I. Rahwan, Eds., Taipei, Taiwan: Springer, 2011, pp. 102-116.

- [39] I. A. Letia and A. Groza, "Justificatory and Explanatory Argumentation for Committing Agents," *ARGMAS 2012*, 4 2013.
- [40] T. Yavorskaya (Sidon), "Interacting Explicit Evidence Systems," *Theory of Computing Systems*, vol. 43, pp. 272-293, 2008.
- [41] A. Achilleos, "On the complexity of two-agent justification logic," in *Computational Logic in Multi-Agent Systems: 15th International Workshop, CLIMA XV, Prague, Czech Republic, August 18-19, 2014. Proceedings*, Cham, 2014.
- [42] A. Achilleos, "Tableaux and complexity bounds for a multiagent justification logic with interacting justifications," in *12th European Conference on Multi-Agent Systems (EUMAS)*, 2014.
- [43] A. Achilleos, "NEXP-completeness and universal hardness results for justification logic," in *International Computer Science Symposium in Russia*, Springer International Publishing, 2015, pp. 27-52.
- [44] A. Achilleos, *Interactions and Complexity in Multi-Agent Justification Logic*, The City University of New York, 2015.
- [45] B. Renne, *Dynamic epistemic logic with justification*, City University of New York, 2008.
- [46] B. Renne, "Evidence elimination in multi-agent justification logic.," in *Proceedings of the 12th Conference on Theoretical Aspects of Rationality and Knowledge*, 2009.
- [47] B. Renne, "Multi-Agent Justification Logic: Communication and Evidence Elimination," *Synthese*, vol. 185, pp. 43-82, 2012.
- [48] T. Studer, "An application of justification logic to protocol verification," in *Computational Intelligence and Security (CIS), 2011 Seventh International Conference on*, 2011.
- [49] T. Studer and others, "Decidability for some justification logics with negative introspection," *Journal of symbolic logic*, vol. 78, pp. 388-402, 2013.
- [50] A. Achilleos, "A complexity question in justification logic," *Journal of Computer and System Sciences*, vol. 80, pp. 1038-1045, 2014.
- [51] A. Achilleos, "Modal logics with hard diamond-free fragments," in *International Symposium on Logical Foundations of Computer Science*, Springer International Publishing, 2016, pp. 1-13.

- [52] D. P. Attard and A. Francalanza, "A Monitoring Tool for a Branching-Time Logic," in *International Conference on Runtime Verification*, 2016.
- [53] I. Cassar and A. Francalanza, "On implementing a monitor-oriented programming framework for actor systems," in *International Conference on Integrated Formal Methods*, 2016.
- [54] A. Achilleos, M. Lampis and V. Mitsou, "Parameterized modal satisfiability," *Algorithmica*, vol. 64, pp. 38-55, 2012.
- [55] A. Achilleos, "The completeness problem for modal logic," *arXiv preprint*, 2016.
- [56] A. Achilleos and M. Lampis, "Closing a gap in the complexity of refinement modal logic," *arXiv preprint arXiv:1309.5184*, 2013.
- [57] L. Aceto, A. Achilleos, A. Francalanza, A. Ingólfssdóttir and S. O. Kjartansson, "On the Complexity of Determinizing Monitors," in *22nd International Conference Implementation and Application of Automata 27--30 June 2017, Proceedings*, 2017.
- [58] L. Aceto, A. Achilleos, A. Francalanza, A. Ingólfssdóttir and S. Ö. Kjartansson, "Determinizing Monitors for HML with Recursion," *arXiv preprint arXiv:1611.10212*, 2016.
- [59] L. Aceto, A. Achilleos, A. Francalanza and A. Ingólfssdóttir, "The complexity of identifying characteristic formulas for muHML," in *PLS 11, Panhellenic Logic Symposium*, 2017.
- [60] L. Aceto, A. Achilleos, A. Francalanza and A. Ingólfssdóttir, "Monitoring for Silent Actions," 2017.