

Publication List

Remark on author ordering: For most of my publications (except [J01, C04, C13, C30, C31]), the order of authors is alphabetic and hence does not reflect the relative contribution of the authors.

Journal Publications

- [J08] STTT (2026) The revised practitioner's guide to MDP model checking algorithms
Hartmanns, A., Junges, S., Quatmann, T., & Weininger, M.
- [J07] TOOLympics (2024) Tools at the Frontiers of Quantitative Verification (QComp 2023 Competition Report)
Andriushchenko, R., Bork, A., Budde, C. E., Ceska, M., Grover, K., Hahn, E. M., Hartmanns, A., Israelsen, B., Jansen, N., Jeppson, J., Junges, S., Köhl, M. A., Könighofer, B., Kretinsky, J., Meggendorfer, T., Parker, D., Pranger, S., Quatmann, T., Ruijters, E., Taylor, L., Volk, M., Weininger, M. & Zhang, Z.
- [J06] STTT (2023) Algebraically Explainable Controllers: Decision Trees and Support Vector Machines Join Forces
Jüngermann, F., Kretinsky, J. & Weininger, M.
- [J05] FORM (2023) Stochastic Games with Lexicographic Objectives
Chatterjee, K., Katoen, J., Mohr, S., Weininger, M. & Winkler, T.
- [J04] Inf. and Comp. (2022) Comparison of algorithms for simple stochastic games
Kretinsky, J., Ramneantu, E., Slivinskiy, A. & Weininger, M.
- [J03] Inf. and Comp. (2022) Value iteration for simple stochastic games: Stopping criterion and learning algorithm
Eisentraut, J., Kelmendi, E., Kretinsky, J. & Weininger, M.
- [J02] Acta Informatica (2021) Index appearance record with preorders
Kretinsky, J., Meggendorfer, T., Waldmann, C. & Weininger, M.
- [J01] Nature methods (2017) Building ProteomeTools based on a complete synthetic human proteome
Zolg, D. P., Wilhelm, M., ..., Weininger, M., ..., & Küster, B.

Conference Publications

- [C31] IJCAI'26 (to appear) Missingness-MDPs: Bridging the Theory of Missing Data and POMDPs
Wendland, J., Zubia, M., Andriushchenko, R., Galesloot, M. F. L., Ceska, M., von Kleist, H., Simao, T. D., Weininger, M., & Jansen, N.
- [C30] AAMAS'26 (to appear) Perception-Based Beliefs for POMDPs with Visual Observations
Schäfers, M., Krále, M., Simao, T., Jansen, N., & Weininger, M.
- [C29] QEST'25 What Are the Odds? Improving Statistical Model Checking of Markov Decision Processes
Meggendorfer, T., Weininger, M., & Wienhöft, P.
- [C28] QEST'25 Statistical Model Checking Beyond Means: Quantiles, CVaR, and the DKW Inequality
Budde, C. E., Hartmanns, A., Meggendorfer, T., Weininger, M., & Wienhöft, P.
- [C27] GandALF'25 Sound Value Iteration for Simple Stochastic Games
Azeem, M., Kretinsky, J., & Weininger, M.
- [C26] LICS'25 Risk-aware Markov Decision Processes Using Cumulative Prospect Theory
Brihaye, T., Chatterjee, K., Mohr, S., & Weininger, M.
- [C25] LICS'25 Stopping Criteria for Value Iteration on Concurrent Stochastic Reachability and Safety Games
Gobelna, M., Kretinsky, J., & Weininger, M.
- [C24] TACAS'25 Fixed Point Certificates for Reachability and Expected Rewards in MDPs
Chatterjee, K., Quatmann, T., Schäffeler, M., Weininger, M., Winkler, T., & Zilken, D.
- [C23] TACAS'25 Sound Statistical Model Checking for Probabilities and Expected Rewards
Budde, C. E., Hartmanns, A., Meggendorfer, T., Weininger, M., & Wienhöft, P.
- [C22] AAI'25 Solving Robust Markov Decision Processes: Generic, Reliable, Efficient
Meggendorfer, T., Weininger, M., & Wienhöft, P.

- [C21] VMCAI'25 1–2–3–Go! Policy Synthesis for Parameterized Markov Decision Processes via Decision-Tree Learning and Generalization
Azeem, M., Chakraborty, D., Kanav, S., Kretinsky, J., Mohagheghi, M., Mohr, S., & Weininger, M.
- [C20] CAV'24 Playing Games with your PET: Extending the Partial Exploration Tool to Stochastic Games
Meggendorfer, T., & Weininger, M.
- [C19] LICS'23 Stopping Criteria for Value Iteration on Stochastic Games with Quantitative Objectives
Kretinsky, J., Meggendorfer, T. & Weininger, M.
- [C18] TACAS'23 A Practitioner's Guide to MDP Model Checking Algorithms
Hartmanns, A., Junges, S., Quatmann, T. & Weininger, M.
- [C17] CONCUR'22 Anytime Guarantees for Reachability in Uncountable Markov Decision Processes
Grover, K., Kretinsky, J., Meggendorfer, T. & Weininger, M.
- [C16] ATVA'22 Optimistic and Topological Value Iteration for Simple Stochastic Games
Azeem, M., Evangelidis, A., Kretinsky, J., Slivinskiy, A. & Weininger, M.
- [C15] TACAS'21 dtControl 2.0: Explainable Strategy Representation via Decision Tree Learning Steered by Experts
Ashok, P., Jackermeier, M., Kretinsky, J., Weinhuber, C., Weininger, M. & Yadav, M.
- [C14] CONCUR'21 Enforcing omega-Regular Properties in Markov Chains by Restarting
Esparza, J., Kiefer, S., Kretinsky, J. & Weininger, M.
- [C13] CDC'21 Guaranteed Trade-Offs in Dynamic Information Flow Tracking Games
Weininger, M., Grover, K., Misra, S. & Kretinsky, J.
- [C12] GandALF'21 Stochastic Games with Disjunctions of Multiple Objectives.
Winkler, T. & Weininger, M.
- [C11] HSCC'20 dtControl: decision tree learning algorithms for controller representation
Ashok, P., Jackermeier, M., Jagtap, P., Kretinsky, J., Weininger, M. & Zamani, M.
- [C10] Isola'20 Statistical Model Checking: Black or White?
Ashok, P., Daca, P., Kretinsky, J. & Weininger, M.
- [C09] GandALF'20 Comparison of Algorithms for Simple Stochastic Games
Kretinsky, J., Ramneantu, E., Slivinskiy, A. & Weininger, M.
- [C08] CAV'20 Stochastic Games with Lexicographic Reachability-Safety Objectives
Chatterjee, K., Katoen, J., Weininger, M. & Winkler, T.
- [C07] CAV'20 Automata Tutor v3
D'Antoni, L., Helfrich, M., Kretinsky, J., Ramneantu, E. & Weininger, M.
- [C06] LICS'20 Approximating Values of Generalized-Reachability Stochastic Games
Ashok, P., Chatterjee, K., Kretinsky, J., Weininger, M. & Winkler, T.
- [C05] QEST'19 SOS: Safe, Optimal and Small Strategies for Hybrid Markov Decision Processes
Ashok, P., Kretinsky, J., Larsen, K.G., Le Coënt, A., Taankvist, J.H. & Weininger, M.
- [C04] CDC'19 Satisfiability Bounds for omega-Regular Properties in Bounded-Parameter Markov Decision Processes
Weininger, M., Meggendorfer, T. & Kretinsky, J.
- [C03] CAV'19 PAC Statistical Model Checking for Markov Decision Processes and Stochastic Games
Ashok, P., Kretinsky, J. & Weininger, M.
- [C02] CAV'18 Value Iteration for Simple Stochastic Games: Stopping Criterion and Learning Algorithm
Kelmendi, E., Krämer, J., Kretinsky, J. & Weininger, M.
- [C01] TACAS'17 Index appearance record for transforming Rabin automata into parity automata
Kretinsky, J., Meggendorfer, T., Waldmann, C. & Weininger, M.