Florian Geißer

Dr. rer. nat. in Computer Science

Ph.D. Thesis

[1] Florian Geißer. "On Planning with State-dependent Action Costs". PhD thesis. University of Freiburg, 2019.

Publications in Conference Proceedings

- [2] Florian Geißer, Guillaume Povéda, Felipe Trevizan, Manon Bondouy, Florent Teichteil-Königsbuch, and Sylvie Thiébaux. "Optimal and Heuristic Approaches for Constrained Flight Planning under Weather Uncertainty". In: *Proceedings of the Thirtieth International Conference on Automated Planning and Scheduling, Nancy, France, October 26-30*, 2020. 2020, pp. 384–393.
- [3] Florian Geißer, David Speck, and Thomas Keller. "Trial-Based Heuristic Tree Search for MDPs with Factored Action Spaces". In: Proceedings of the Thirteenth International Symposium on Combinatorial Search, SOCS 2020, Online Conference [Vienna, Austria], 26-28 May 2020. 2020, pp. 38–47.
- [4] David Speck, Florian Geißer, and Robert Mattmüller. "When Perfect is not Good Enough: On the Search Behaviour of Symbolic Heuristic Search". In: *Proceedings of the Thirtieth International Conference on Automated Planning and Scheduling, Nancy, France, October* 26-30, 2020. 2020, pp. 263–271.
- [5] Sumitra Corraya, Florian Geißer, David Speck, and Robert Mattmüller. "An Empirical Study of the Usefulness of State-Dependent Action Costs in Planning". In: KI 2019: Advances in Artificial Intelligence 42nd German Conference on AI, Kassel, Germany, September 23-26, 2019, Proceedings. Vol. 11793. Lecture Notes in Computer Science. 2019, pp. 123–130.
- [6] David Speck, Florian Geißer, Robert Mattmüller, and Álvaro Torralba. "Symbolic Planning with Axioms". In: *Proceedings of the Twenty-Ninth International Conference on Automated Planning and Scheduling, ICAPS 2019, Berkeley, CA, USA, July 11-15, 2019*. 2019, pp. 464–472.
- [7] Robert Mattmüller, Florian Geißer, Benedict Wright, and Bernhard Nebel. "On the Relationship Between State-Dependent Action Costs and Conditional Effects in Planning." In: Proceedings of the Thirty-Second AAAI Conference on Artificial Intelligence, (AAAI-18), New Orleans, Louisiana, USA, February 2-7, 2018. 2018, pp. 6237–6245.
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- [10] Thomas Keller, Florian Pommerening, Jendrik Seipp, Florian Geißer, and Robert Mattmüller. "State-dependent Cost Partitionings for Cartesian Abstractions in Classical Planning." In: Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence, IJCAI 2016, New York, NY, USA, 9-15 July 2016. 2016, pp. 3161–3169.
- [11] Dali Sun, Florian Geißer, and Bernhard Nebel. "Towards Effective Localization in Dynamic Environments." In: 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2016, Daejeon, South Korea, October 9-14, 2016. 2016, pp. 4517–4523.
- [12] Florian Geißer, Thomas Keller, and Robert Mattmüller. "Delete Relaxations for Planning with State-Dependent Action Costs". In: Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence, IJCAI 2015, Buenos Aires, Argentina, July 25-31, 2015. 2015, pp. 1573–1579.
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- [15] Patrick Ferber, Florian Geißer, Felipe Trevizan, Malte Helmert, and Jörg Hoffmann. "Neural Network Heuristic Functions for Classical Planning: Reinforcement Learning and Comparison to Other Methods". In: *PRL Workshop–Bridging the Gap Between AI Planning and Reinforcement Learning*. 2021.
- [16] Ziqi Zhang and Florian Geißer. "Extending Graph Neural Networks for Generalized Stochastic Planning". In: *PRL Workshop–Bridging the Gap Between AI Planning and Reinforcement Learning.* 2021.
- [17] Florian Geißer, David Speck, and Thomas Keller. "An Analysis of the Probabilistic Track of the IPC 2018". In: Workshop on the International Planning Competition (WIPC). 2019.
- [18] Robert Mattmüller, Florian Geißer, Benedict Wright, and Bernhard Nebel. "On the Relationship Between State-Dependent Action Costs and Conditional Effects in Planning". In: Proceedings of the 9th Workshop on Heuristics and Search for Domain-independent Planning (HSDIP). 2017, pp. 10–18.

Extended Abstracts.

[19] Florian Geißer, Thomas Keller, and Robert Mattmüller. "Delete Relaxations for Planning with State-Dependent Action Costs". In: *Proceedings of the Eighth Annual Symposium on Combinatorial Search*, SOCS 2015, 11-13 June 2015, Ein Gedi, the Dead Sea, Israel. 2015, pp. 228–229.

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- [20] Florian Geißer and David Speck. "Prost-DD-Utilizing Symbolic Classical Planning in THTS". In: Sixth International Probabilistic Planning Competition (IPC-6): planner abstracts (2018), pp. 13–16.
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Errata

• In [13]: On page 7, we mention that the results at IPPC would have differed by -0.09, +0.04 and +0.05, which should read -0.009, +0.004 and +0.005 instead.