ADITYA MOHAN

I am interested in building sequential decision-making pipelines that can generalize from sparse amounts of data

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RESEARCH INTERESTS

- Generalization in Reinforcement Learning
- Automated Reinforcement Learning
- Meta-Reinforcement Learning
- Structured Reinforcement Learning

WORK EXPERIENCE

Scientific researcher and PhD candidate

Institute of Artificial Intelligence

Oct 2021 – Present | Hannover, Germany

Generalization and Deployability in Reinforcement Learning, Meta-learning, and Algorithm Configuration.

Research Intern

Learning and Intelligent Systems Group

Sep 2020 – Dec 2020 | Berlin, Germany

Exploration in Reinforcement Learning through reward-shaping using trajectories generated from a planner.

PUBLICATIONS

Journals and Conferences

- C. Benjamins, T. Eimer, F. Schubert, *et al.*, "**Contextualize Me – The Case for Context in Reinforcement Learning**," *Transactions on Machine Learning Research*, 2023.
- **A. Mohan**, C. Benjamins, K. Wienecke, *et al.*, "**AutoRL Hyperparameter Landscapes**," in *Proceedings of the Second International Conference on Automated Machine Learning*, Proceedings of Machine Learning Research, 2023.
- M. Loni*, **A. Mohan***, M. Asadi, *et al.*, "**Learning Activation Functions for Sparse Neural Networks**," in *Proceedings of the Second International Conference on Automated Machine Learning*, Proceedings of Machine Learning Research, 2023.
- T. Ruhkopf, **A. Mohan**, D. Deng, *et al.*, "**MASIF: Meta-learned Algorithm Selection using Implicit Fidelity Information**," *Transactions on Machine Learning Research*,

Workshops and Pre-prints

- **A. Mohan**, A. Zhang, and M. Lindauer, "**Structure in Reinforcement Learning: A Survey and Open Problems**," 2023. arXiv: 2306.16021.
- A. Tornede, D. Deng, T. Eimer, *et al.*, "**AutoML in the Age of Large Language Models: Current Challenges, Future Opportunities and Risks**," 2023. arXiv: 2306.08107.
- **A. Mohan**, T. Ruhkopf, and M. Lindauer, "**Towards Meta-learned Algorithm Selection using Implicit Fidelity Information**," 2022.

EDUCATION

M.Sc, in Autonomous Systems

Technical University of Berlin, EURECOM

Oct 2019 – Oct 2021

- **Thesis:** AI agents that quickly adapt to a partner for Ad-Hoc cooperation in the game of Hanabi
- **Supervisor:** Prof. Dr. Klaus Obermayer

B.Tech in Electronics and Communication Engineering

Manipal Institute of Technology

Aug 2014 – July 2018

- **Thesis:** Development of Software for Autonomous Driving Support
- **Supervisor:** Dr. Shankarnarayana Bhat

TEACHING EXPERIENCE

Graduate Seminar

Reinforcement Learning

Apr 2022 – Jul 2022

Content selection & presentation and report feedback. General course organization, including deploying new teaching methods.

Graduate Lecture

Reinforcement Learning

Oct 2022 – Present

General course organization and support in exercises. Independent lecture on Meta-RL.

Graduate Seminar

Reproducibility in Machine Learning

Apr 2023 – Present

Mentorship for students working on reproducing State-of-the-art results in Reinforcement Learning

COMMUNITY

Reviewer: AutoML Conf, ICML, ICLR, CoLLAs

Organizer: DAC4AutoML Competition

Contributor: ICLR DEI Tiny papers