

Proceedings of Doctoral Consortium at KI 2023 – Preface

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Preface

The KI 2023 conference in Berlin, Germany is the 46th edition of the German conference on Artificial Intelligence (abbreviated KI for "Künstliche Intelligenz"), organized in cooperation with the Fachbereich Künstliche Intelligenz der Gesellschaft für Informatik (GI-SIG AI). KI is one of the major European AI conferences and traditionally brings together academic and industrial researchers from all areas of AI, providing an ideal venue for exchanging news and research results on theory and applications.

As in previous years, a PhD workshop with oral presentations is held during the KI conference, providing an opportunity to get feedback on PhD projects. This year, the response to the Call for Papers was gratifyingly high, with submissions from large and small universities, universities of applied sciences, research institutes, and industrial companies. Based on the reviews of all program committee members, 12 out of 14 submissions have been selected for oral presentation. The high-quality contributions of these 12 young scientists, who are pursuing their PhD in the field of Artificial Intelligence, are collected in this volume.

All projects will be presented in the PhD workshop at KI 2023, which takes place on-site in Berlin on September 26, 2023. The doctoral students can also participate in a mentoring program that will connect students with experienced researchers in their field. Many PhD students have made use of this option and have meetings with their mentors. In this context, I would like to thank the whole team of reviewers from the program committee and all mentors (list see below). Thanks also to the organizers who so kindly provide us with the necessary infrastructure, the website, and help with any further issue that occurred. In any case, I wish good feedback in all discussions and a good progress with all presented PhD projects.

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Contributions

A. Natural Language Processing

Thorben Schomacker: Automatic German Easy Language (Leichte Sprache) Simplification: Data, Requirements and Approaches 1-10

Yusuf Brima: Self-Supervised Learning of Speech Representation via Redundancy Reduction 11-19

Frederic Voigt: Adapting Natural Language Processing Strategies for Stock Price Prediction 20-29

B. Learning, Games and Creativity

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Florian Rupp: Learning the Generation of Balanced Game Levels 40-49

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D. Awareness and Security

Dipendra Yadav: Evaluating Dangerous Capabilities of Large Language Models: An Examination of Situational Awareness 88-93

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Kai Hendrik Wöhnert: Lightweight Federated Learning Based Detection of Malicious Activity in Distributed Networks 103-112

Program Committee and Mentors (in Alphabetical Order)

Kerstin Bach	Norwegian University of Science and Technology
Korinna Bade	Anhalt University of Applied Science
Tobias Huber	University of Augsburg
Özgür Lütfü Özcep	University of Lübeck
Ute Schmid	University of Bamberg
Dietmar Seipel	University of Würzburg
Frieder Stolzenburg	Harz University of Applied Sciences
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Matthias Thimm	FernUniversität in Hagen
Marcel Waleska	University of Würzburg
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