

Norm-based reasoning: from legal and moral traditions to AI systems

Initiative: Künstliche Intelligenz – Ihre Auswirkungen auf die Gesellschaft von morgen

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The project aims to provide methods for intelligent norm-based reasoning in AI systems, i.e. methods that enable AI systems to comply not only with precise legal rules, but also with ethical principles and values, according to practical rationality, fairness, and justice. To capture the richness of legal and moral thinking, patterns for normative reasoning need to be extracted and modeled using a variety of formal methods. These methods should address the use of normative concepts, the agency of norms' addressees, the structure of arguments in which norms are used, and the ways in which normative conclusions can be revised according to new information, the probability of factual preconditions and the application-interpretation of a norm, as well as the connection between norms, cases and values. The project will build upon the results of current research in Logic, AI and Law, Jurisprudence and legal argumentation, and extend it with new methods and patterns of rationality, thanks to the historical-philosophical-scientific background of the inquiry. The very broad focus, covering multiple legal and philosophical traditions, across different cultures, and connecting them with contemporary research in logic, argumentation and computing, will provide new opportunities for unexpected insight, enriching current frameworks, and supporting intercultural dialogue. The orientation phase will serve the consortium to identify the most promising approaches and develop an effective methodology for interdisciplinary dialogue and collaboration.

Projektbeteiligte

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