

From Machine Learning to Machine Teaching (ML2MT) - Making Machines AND Humans Smarter

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

Ausschreibung: Künstliche Intelligenz – Ihre Auswirkungen auf die Gesellschaft von morgen - Full Grant (nur nach Aufforderung)

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Laufzeit: 4 Jahre

Inspired by the success of machine learning, like in the board game Go (AlphaGo Zero) as a prime example, the project aims at a better understanding how humans and machines in collaborative human-AI systems can unlock new knowledge from symbiotic interaction with each other. To this end, the consortium explores the analytical and technical foundations that account for success in transferring new knowledge from intelligent machines to humans and vice versa. This will be investigated in case studies from medical diagnostics, economic decision-making and financial market forecasting using hybrid human-machine systems. The team wants to derive generalizable socio-technological and psychological findings and make recommendations in order to further improve the interaction between humans and machines.

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Open Access-Publikationen

Explanatory Interactive Machine Learning: Establishing an Action Design Research Process for Machine Learning Projects

How AI-Based Systems Can Induce Reflections: The Case of AI-Augmented Diagnostic Work

Expl(AI)ned: The Impact of Explainable Artificial Intelligence on Users Information Processing

Designing a Feature Selection Method based on Explainable Artificial Intelligence