



Ausschreibung des von der **DFG geförderten Graduiertenkollegs KEMAI**, in dessen Rahmen auch eine **medizinethische Stelle für eine Doktorand:in** zu besetzen ist.

Thematisch geht es bei der aktuellen Ausschreibung um das Projekt "D4 – Dual Use Research of Concern with AI-based Medical Diagnoses"

Project Leads: Prof. Steger (Ethics), Prof. Ropinski (Computer Science)

This project addresses the ethical analysis of research with the use of AI and expert systems, which belongs to Dual Use Research of Concern (DURC), as it can be misused with intent to harm human dignity, health, freedom, property or peaceful coexistence. It has become particularly important to not only consider potential military uses and misuses of research, but also examine possible vulnerabilities of systems based on large patient databases to discrimination, extortion through ransomware, theft of sensible data and computer attacks. For example, data of patients with certain diseases can be misused by insurance companies or employers to discriminate them. Therefore, the issue of security-relevant research and DURCs has to be discussed with AI-based Medical Diagnoses in an ethical perspective. Within this project, the research will concentrate on the evaluation of AI systems with regard to protection of individuals and dual use of this technology. A particular focus will lie on the identification of vulnerabilities as well as potential threats related to the use of such systems, e.g., through theft of personal data used in research and clinical applications or through dual use of the developed systems, e.g., for military or criminal purposes. Moreover, it will be examined how such risks can be minimized, e.g., through restriction of personal data gathered from patients or through built-in protection mechanisms and guidelines on how ethically secured systems can be developed.

Nähere inhaltliche Informationen über das Graduiertenkolleg finden Sie hier: <https://kemui.uni-ulm.de/>

Informationen zur Bewerbung sind hier zusammengestellt: <https://kemui.uni-ulm.de/application/phd-application/>

Bei inhaltlichen Rückfragen können Sie sich gerne melden: med.gte@uni-ulm.de