Guidelines for the Use of Artificial Intelligence

Date: 24 April 2025
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What is generative AI?

"Generative AI refers to systems based on artificial intelligence (AI) that use statistical methods and training data to generate new, similar data. In other words, generative AI systems can imitate their training data. This can include, for example, texts, images, or even program code. Well-known examples are ChatGPT, a chatbot for text generation; Midjourney, which creates images based on text input; or Perplexity, a chat-based search engine with source references." (*University of Hohenheim, 2023*) (Universität Hohenheim, 2023)

Am I allowed to use generative AI for my thesis?

To a certain extent, yes. However, you must take the following into account:

- **If you use generative AI systems in your examination work, you <u>are required </u>to submit a declaration detailing the use of the AI systems.** This should explain which system you used, how you used it, and for which step in your work. This is intended not only as information for the examiners but also as a tool for your own reflection. Please use the provided template for this declaration.

- **If you submit the AI declaration, you must also submit a statutory declaration/statement of independent work**, just as you would if you had not used AI.

- **Generative AI systems may produce factually incorrect information.** "This is partly because AI systems cannot truly think: they generate data that is very similar to their training data, but they are unable to assess whether the output is meaningful and/or factually correct. Nevertheless, it is possible to use these systems in a scientifically valid way if you adhere to the principles of good scientific practice – which includes not only strict honesty but also the imperative to consistently question and verify all results yourself." (*University of Hohenheim, 2023*)

I want to use generative AI for writing my thesis. Is this allowed?

No, you may only use AI for checking grammatical and spelling errors. Writing the thesis, even partially, with the help of AI is not permitted.

May I use AI to generate programming code in languages such as R or Python?

Yes, this is permitted. However, you must complete the declaration form provided below. Additionally, you are required to verify the accuracy and plausibility of the code through appropriate checks.

I want to learn more about AI. Where can I do that?

Some modules in the new (and old) FPSO already include topics related to artificial intelligence and learning systems as part of the curriculum. Additionally, you can find two free online courses for student teachers and educators in the TUM DigiLLab Knowledge Hub, which you can access at any time.: https://knowledgehub.edu.sot.tum.de/

Declaration of Use of generative AI Systems

In preparing this work, I used the following artificial intelligence (AI)-based systems[1]:

Working step/Category	Used AI Systems	Description of how the AI was used
Generation of ideas and conceptualisation of the work		
Literature search (not allowed if exclusively done by AI)		
Analysis of literature (not allowed if exclusively done by AI)		
Literature and citation management	Not allowed	Not allowed
Generation of ideas to select methods and models		
Data collection	Not allowed	Not allowed
Data analysis	Not allowed	Not allowed
Generation of programming code		
Creating visualisations		
Generation of ideas for interpretation and validation of results		
Improvement of thesis structure		
Forfmulation/writing of thesis	Not allowed	Not allowed
Translation of thesis text	Not allowed	Not allowed
Revision of text (grammar and spelling correction)		
Other		

[1] If you are unsure whether you need to disclose the use of an AI system, please get in touch with your supervisor.

I declare that I

☐ have actively informed myself about the capabilities and limitations of the AI systems mentioned above,

☐ **have verified the factual accuracy of the content or code generated with the help of the above-mentioned AI systems and adopted by me and implemented code checks** (if applicable),

☐ **am aware that, as the author of this work, I bear full responsibility for all information and statements contained therein.**

_____

Name in block letters

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Place, Date, Signature