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Supervisors' and PhD students' experiences of Artificial Intelligence (AI) in PhD education

Abstract for Research paper presentation

Supervisors' and PhD students' experiences of Artificial Intelligence (AI) in PhD education

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Background:

Al's role in academic context has been debated for some years. Controversial aspects include tudent examination processes, effective utilization of AI as a learning tool without de-skilling, and defining gitimate research when AI handles fundamental scientific tasks (Lodge, Thompson and Corrin, 2023). onsensus in these questions is still lacking. Specifically, regarding research and PhD education, AI can be een as revolutionary when it comes to writing manuscripts, conducting searches (Zou and Huang, 2023a), anscribing and analyzing data (Zou and Huang, 2023b) and eventually scientific journals' processes oncerning publishing and peerreviewing, all those aiming to increase the quality of research. But at the same me, if a computer makes all these tasks, what are the tasks that a PhD student needs to master to become a searcher?

Purpose:

A first step handling these challenges is to explore doctoral students' and supervisors' experiences of sing Al in PhD education.

Methods:

An online survey was sent out in April 2024 to all PhD students and their supervisors who are gistered at a research school within health science at a University of Southern Sweden. The survey consisted f mainly qualitative, open-ended questions concerning the experiences, perceived advantages and isadvantages of using AI and its impact on learning. Additional demographic background information (gender, ge, experience of supervision and stage of PhD education respectively) were also collected. In total, 59 PhD tudents and 129 supervisors received the survey of which 17 answered within a week. However, the data ollection is ongoing, and we are planning to include additional research schools at different universities. ualitative data were analyzed using thematic analysis for short open answers in questionnaires (Robinson, 022).

Preliminary results:

Our results show that both supervisors and PhD students use AI differently ranging from ever to daily (mean=3,5; 1, 5). When AI is being used, it almost always concerns the improvement of the language and text production, such as translation, correction, proof-reading, summarizing, and hybridwriting. hD students and supervisors are mostly positive to the use of AI in PhD education yet point out the lack of uidelines to use it in a correct, transparent, and ethical way. Most of them are also concerned about the egative impact it might have

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on learning leading to a trap of non-reflective and non-creative processes. Many of them have not at all or very briefly discussed the use of AI during supervision meetings leaving the PhD students ithout proper guidance in how to navigate correctly in this new landscape of research.

References:

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