

Keeping Teachers in the Loop: Possibilities and Limits of Generative AI in Education

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Abstract: Most research on AI in education has focused on students. Much less attention has been paid to teachers. But Large Language Models are changing teaching as much as learning. Based on a long research path, from early adaptive systems to generative AI, this keynote argues that the role of the teacher must change. Teachers are no longer only designers of fixed courses, but co-creators of learning together with AI. At the same time, the gap between teachers and new generations of students is growing, and so are the risks: wrong answers, privacy issues, and dependence on a few large commercial models. To keep their authority and guide their students, teachers need the right tools. The talk discusses how to support this change in two ways: at the organizational level, providing teachers with appropriate training, and ensuring that they remain in control of key educational decisions; and at the technical level, with tools that they can understand and control.

by strengthening teachers' agency, providing them with appropriate training, and ensuring that they remain in control of key educational decisions

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