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Dear colleagues,

concerning AI many colleagues and me thought that this might be helpful in solving some simple problems but that the core of mathematics will stay out of reach for AI for at least a couple of years.

The announcement of OpenAI of having solved the Navier-Stokes Millenium Problem has woken up many of us including me. Irrespective of how it is possible to formalise functional analysis and the theory of partial differential equations and irrespective of whether the announced solution will turn out to be correct or not it has become obvious that AI is no longer concerning just written exams or homework but mathematical research and innovation.

In view of the enormous potential implication there is an obvious need for rules how to deal with AI in mathematical research (and also in general).

In this respect I find the Leiden Declaration on Artificial Intelligence and Mathematics most helpful: <https://leidendeclaration.ai/>

There also the genesis of this declaration is explained:

"In September 2025 the Lorentz Center at Leiden University in the Netherlands hosted a conference entitled Mechanization and Mathematical Research. The around 60 participants from 10 countries comprised mathematicians, computer scientists, philosophers, historians and social scientists, including those with experience in industry and in government.

During the eight months following the conference, a smaller working group developed this Declaration, with extensive feedback from the mathematical community. The Declaration reflects artificial intelligence technologies and mathematical practice as of May 2026. The working group was convened by Jim Portegies, who can be contacted for any further information. "

Perhaps you may like reading (and possibly also signing) this declaration.

With best regards
Hans-Christoph Grunau