

# Mathematics in the Age of AI

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## **Abstract.**

Automatic resolution of famous conjectures, autoformalization, algorithms more efficient than any previously devised by humans... The emergence of the latest generation of artificial intelligence models is causing a seismic shift in mathematics at every level. In this talk we will analyze this phenomenon within its historical context, explain the mechanisms that make this revolution possible, examine our current position by reviewing the most recent mathematical breakthroughs achieved with AI, and attempt to predict what the future may hold.