

1st May 2025, **Ostrava**

MgA. Jan Hůla, Ph.D.
plenary lecture

32nd
Vojtěch Jarník
International
Mathematical
Competition



15:00
M427
Chittussiho 10

NAVIGATING CHANGE: THE ROLE OF ARTIFICIAL INTELLIGENCE IN SOCIETY, SCIENCE, AND MATHEMATICS

Over the past decade, artificial neural networks have revolutionized artificial intelligence by shifting the focus from manually designing algorithms to automatically discovering them from large datasets. This automation in algorithm development is reshaping industries, redefining human labor, and challenging traditional values related to work and productivity. It also profoundly impacts numerous scientific fields, including mathematics. In this talk, I will offer a high-level perspective on these developments, share predictions about future trends, and compare the evolving capabilities of AI systems to human cognitive abilities.