FAU Friedrich-Alexander-Universität Research Center for Mathematics of Data | MoD

Amaury Hayat

ÉCOLE DES PONTS PARISTECH

The role of Artificial Intelligence in the future of mathematics

THU. **JANUARY 11**, 2024 • 14:00H

www.mod.fau.eu

The role of Artificial Intelligence in the future of mathematics

Speaker: Prof. Dr. **Amaury Hayat**
École des Ponts ParisTech

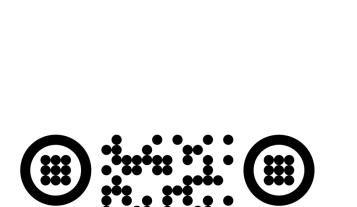**Organizer:** FAU MoD, Research Center for Mathematics of Data at FAU, Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)
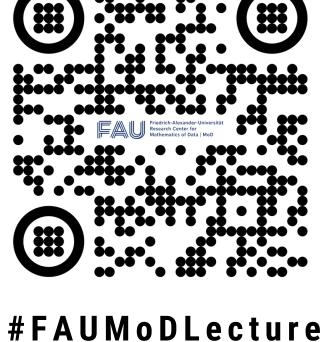
Artificial Intelligence (AI) has demonstrated remarkable achievements across various domains, from natural language processing to mastering complex games like chess. This naturally raises the question: can AI assist mathematicians in solving open problems in mathematics? This talk aims to address this question. We will explore how AI models can be trained to provide valuable insights into three mathematical questions from different areas of mathematics and applied mathematics. We will then showcase examples of AI models that are specifically trained to prove mathematical theorems by themselves.

WHEN?
Thursday **January 11, 2024**
14:00H

WHERE?
On-site / Online

Room **01.382 – Besprechungsraum Mathematik**
FAU. Friedrich-Alexander-Universität Erlangen-Nürnberg
Felix-Klein building. Department Mathematik
Cauerstraße 11, 91058 Erlangen (Germany)

Zoom link: https://shorturl.at/evR04
Meeting ID: **624 1094 3213** | PIN code: **694096**

#FAUMoDLecture