Teaching Geography

1 session:

1. Teaching Geography and Geoinformatics in the Era of AI and Large Language Models

Session organiser: Kamyar Hasanzadeh, Univeristy of Helsinki, Finland, **E-mail**: kamyar.hasanzadeh@helsinki.fi

AI and large language models are beginning to influence many corners of geographic education. They can assist students with writing, analytical reasoning, map interpretation, coding, data exploration, and the communication of geographic ideas. They also open possibilities for more personalized learning, quicker feedback, and new forms of classroom engagement. At the same time, they raise questions about the development of core skills, the role of critical thinking in an AI-rich environment, and how assessment should adapt.

This session invites contributions that consider how AI affects the full spectrum of geography teaching, from human and physical geography to geoinformatics and spatial data science. We welcome both practical experiences and more conceptual reflections. Submissions may include case studies from courses, examples of classroom activities, insights into how students use AI, evaluations of learning outcomes, and broader discussions about the future of geographic education. Possible topics include:

• using AI to support learning in geography

• experiences from courses where AI assists with coding or spatial analysis

• ways to help students develop critical judgement about AI-produced answers

• opportunities to widen participation and support diverse learning styles

• approaches to assessment that remain fair and meaningful

• reflections on how AI changes the balance between conceptual understanding and technical skills

The aim of the session is to foster a constructive conversation about how geography as a whole can evolve in response to rapid advances in AI. By sharing experiences, challenges, and promising practices, we can help outline a thoughtful path for teaching geography and geoinformatics in a changing educational landscape.