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BAYREUTH, DEN 22.05.2025

VORTRAGSANKÜNDIGUNG

Im Rahmen unseres gemeinsamen Oberseminars

„Numerische Mathematik, Optimierung und Dynamische Systeme“

spricht

Frau Giulia Tatafiore,
Mathematics Department 'Guido Castelnuovo',
Sapienza University, Rome, Italy

am Mittwoch, 28.05.2025 um 10:15 Uhr im Raum S 36, Gebäude NW I

über das Thema

"Efficient semi-Lagrangian schemes
for Mean Field Games on unstructured grids"

Abstract:

In this talk, we introduce semi-Lagrangian schemes and discuss the main issues related to their construction on unstructured grids. We propose an efficient implementation adapting classical algorithms in computational geometry and computer graphics. Then, we apply our computational framework to the numerical solution of Hamilton-Jacobi-Bellman and Fokker-Planck equations arising in second order Mean Field Games systems on domains with complex topology.

This is a joint work with Simone Cacace and Roberto Ferretti.

gez. Lars Grüne