



Maurizio day: numerics for controls, pdes and images

Dipartimento di Matematica Guido Castelnuovo
December 15, 2023

dedicated to Maurizio Falcone

Program

9:30 - 10:00 Adriano Festa (Politecnico di Torino)
Forward-Forward Mean Field Games in mathematical modeling with application to opinion formation and voting models

10:00 - 10:30 Athena Picarelli (Università di Verona)
A deep solver for BSDEs with jumps

10:30 - 10:45 Alessio Oliviero (Sapienza)
Optimal control of epidemiological models

Coffee Break

11:30 - 12:00 Silvia Tozza (Università di Bologna)
A scheme for the game p -Laplacian and its application to image inpainting

12:00 - 12:30 Alessandro Alla (Università di Venezia)
A POD based approach to identify and control PDEs

12:30 - 12:45 Francesca L. Ignato (SBAI Sapienza)
Dissoluzione di particelle di farmaco di forma variabile con il metodo Level-Set

12:45 - 13:00 Giulia Villani (Sapienza)
Optimal control for orbital transfer of LEO satellites with Low-Thrust engines

Lunch
