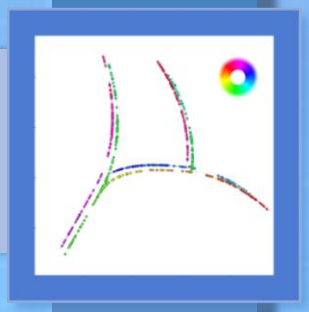
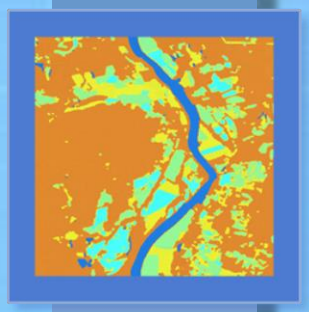
INTERUNIVERSITY RESEARCH GROUP
OPTIMIZATION ALGORITHMS AND
SOFTWARE FOR INVERSE PROBLEMS

OASIS SPRING DAY

12 June 2023
Aule didattiche Ercolani
Università di Bologna





PROGRAM

10:00 - Opening
10:30 - Ambra Catozzi: Piece-wise constant image segmentation with a deep image prior approach
10:50 - Giorgia Franchini: Automatic setting of learning rate and mini-batch size in momentum and Adam stochastic gradient methods
11:10 - Filippo Camellini: p-th root of stochastic matrices: a deep unsupervised learning approach
11:30 - coffee break
11:50 - Simone Rebegoldi: PHILA: proximal heavy-ball inexact linesearch algorithm
12:10 - Alessandro Benfenati: A deep learning generative model approach for image synthesis of plant leaves
12:30 - lunch break
14:30 - Elena Govi: Addressing challenges in industrial pick and place: a deep learning-based 6D pose estimation solution
14:50 - Francesco Mezzadri: A framework for shape-parametrized neural networks
15:10 - Davide Evangelista: On invariances in deterministic diffusion implicit models and (potential) applications to image reconstruction
15:30 - Serena Crisci: Variable metric gradient methods with diagonal Barzilai-Borwein stepsizes
15:50 - Closing remarks

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