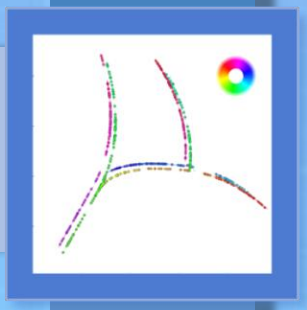
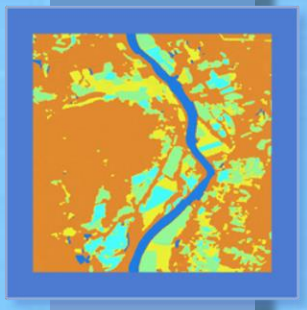
INTERUNIVERSITY RESEARCH GROUP
OPTIMIZATION ALGORITHMS AND
SOFTWARE FOR INVERSE PROBLEMS

OASIS X-MAS DAY

21 December 2022
Dipartimento di Scienze FIM
Università di Modena e Reggio Emilia





PROGRAM

09:30 - Opening
10:00 - Ambra Catozzi: Neural blind deconvolution with Poisson data
10:20 - Alessandro Benfenati: A singular Riemannian geometry approach to deep neural networks
10:40 - Davide Evangelista: A stability-accuracy trade-off in neural networks for ill-conditioned inverse problems
11:00 - Coffee break
11:20 - Andrea Sebastiani: A(nother) justified neural-network approach for limited-angle tomography
11:40 - Elena Govi: Uncovering the background-induced bias in RGB based 6-DoF object pose estimation
12:00 - Danilo Pezzi: Variational methods and where to find them: bilevel optimization and unrolling
12:20 - Lunch break
14:40 - Francesco Mezzadri: A framework for physics-informed deep learning over freeform domains
15:00 - Margherita Scipione: Deep unfolding network for few-view tomographic image reconstruction
15:20 - Simone Rebegoldi: Barzilai-Borwein-like rules for ℓ_1-regularized problems
15:40 - Ilaria Trombini: Diagonal Barzilai-Borwein rules in stochastic gradient methods
16:00 - Closing remarks & Christmas greetings

Info & Contacts: Prof. Marco Prato –
marco.prato@unimore.it