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Università
Ca' Foscari
Venezia



Workshop

APPROXIMATING THE RESPONSE OF COMPLEX HYDROLOGICAL SYSTEMS: FROM THEORY TO REAL-WORLD APPLICATIONS

3 giugno 2025

Sala conferenze Orio Zanetto, Campus Scientifico via Torino
Via Torino 155 - Venezia Mestre

10.00 - 10.40 **Adam Siade:** *Reduced-dimensional gaussian process machine learning for groundwater allocation planning using swarm theory*

10.45 - 11.25 **Reygie Macasieb:** *A probabilistic approach to surrogate-assisted multi-objective optimization of complex groundwater problems*

11.40 - 12.20 **Federico Piazzon:** *Surrogate modelling and sensitivity analysis of Kelvin-Voigt viscoelastic flow by polynomial approximation*

14.00 - 14.40 **Boumediene Hamzi:** *Bridging machine learning, dynamical systems, and algorithmic information theory: Insights from sparse kernel flows, Poincaré normal forms and PDE simplification*

14.45 - 15.25 **Antonia Larese, Damiano Pasetto:** *RBF-based Surrogates of a high-fidelity simulation model of a debris flow*

Organizers

Damiano Pasetto, Gabriele Santin, Antonia Larese



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