JANUARY 18-19, 2024
SISSA, VIA BONOMEA 265, TRIESTE
BIG MEETING ROOM, 7TH FLOOR

Pro3
t joint programme 2023-2024
2nd Workshop

Scientific computing
for natural sciences,
social sciences,
and applications:
methodological
and technological
development

The event will be streamed online and the link for remote participation will be shared to the registered participants. If you wish to attend, please fill the form.
14.00 Opening address
Gianluigi Rozza

14.10 “Identifying informative distance measures in high-dimensional feature spaces”
Alessandro Laio (SISSA)

14.40 “Quantum ESPRESSO at the exascale”
Ivan Carnimeo (SISSA)

15.10 “Reduced Order Modelling: state of the art and challenges”
Gianluigi Rozza (SISSA)

15.40 “Full and reduced order models for the simulation of geophysical flows”
Michele Girfoglio (SISSA)

16.10 Coffee Break

16.30 “Turbulent thermal convection with ice melting”
Roberto Verzicco (GSSI)

17.00 “Phase field modelling and simulation of damage in human vertebra after screws fixation”
Pietro Lenarda (IMT School)

17.30 “High-fidelity digital twin models for computational archaeology”
Maria Rosaria Marulli (IMT School)
“New generation potential flow solvers for aeronautic and naval engineering applications”
Andrea Mola (IMT School)

“An agent-based approach integrating traffic and environmental emission simulations for public authorities”
Marco Paggi (IMT School)

“Solving integro-differential equations modeling pharmacodynamics”
Nicola Guglielmi (GSSI)

“Dynamic Land Cover Mapping exploiting satellite images: Insights on Large Raster Datasets processing”
Andrea Taramelli/Margherita Righini (IUSS)

Coffee Break

“Multiscale approaches for computational spectroscopy in solution”
Chiara Cappelli (SNS)

“Multiscale Models for Molecular Plasmonics”
Tommaso Giovannini (SNS)

Closing Remarks and Discussion
Gianluigi Rozza and Marco Paggi