

Introduction to the Methodological course: Advanced Benchmarking Models and Techniques



SAPIENZA
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RISIS

Research infrastructure for research
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(DIAG), Sapienza University of Rome, 22 March 2021

Course objectives

- Introduce the participants to the importance of Performance models and methods for research and higher education studies
- Provide the participants with the basic knowledge for understanding and using quantitative performance techniques in their field
- Propose an overview on the available tools for implementing performance and efficiency analysis techniques in their context of application
- Offer tutorials on the main softwares that will be used during the course
- Encourage the participants to explore the proposed tools with their own datasets
- Offer the possibility to interact with the course's lecturers to have advice on their own specific needs.

Program and contents

Day 1: Monday 22 March 2021

- 9:00 -9:10 Welcome of participants and Introduction to the course
- 09:10-10:10 Lecture: A Conceptual framework for performance modeling (**Cinzia Daraio**)
- break
- 10:20-12:30 State of the art of quantitative performance measurement techniques (**Cinzia Daraio**) -with a break
- 13:45-15:45 Laboratory session -Tutorial on R (**Thyago Nepomuceno**) with a break
- Break
- 16:00-18:00 Laboratory session -Tutorial on Matlab (**Simone Di Leo and Giammarco Quaglia**) with a break

Program and contents

Thursday 25 March 2021 from 12 a.m. to 3 pm.

- A midweek virtual meeting/appointment will be scheduled to help and support in the group exercises on Slack

Day 2: Monday 29 March 2021

- 9:00-12:00 Group presentations with some breaks
- 12:00-12:30 Closing session and take away (Cinzia Daraio)