

## LOCAL ORGANIZING COMMITTEE

DEPARTMENT OF COMPUTER, CONTROL, AND  
MANAGEMENT ENGINEERING ANTONIO RUBERTI



SAPIENZA  
UNIVERSITÀ DI ROMA

### Organising Committee

Alessandro Avenali

Cinzia Daraio

Giorgio Matteucci

### Technical Support

Simone Di Leo

Giammarco Quaglia

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RISIS2 EU Project

## ORGANIZATIONAL DETAILS

### Online course including:

- On-line lectures presenting the main methods for causal discovery based on graphical models
- Group exercises where participants will experiment the different approaches available based on graphical models
- Plenary discussion on the exercises carried out

**Cost and Fees:** No registration fees to be paid by European Participants

**Registration:** send the application form and CV by email at [dileo@diag.uniroma1.it](mailto:dileo@diag.uniroma1.it)

**To ask the certificate of participation** write an email at [giammarco.quaglia@uniroma1.it](mailto:giammarco.quaglia@uniroma1.it)

**DEADLINE FOR REGISTRATION**

**April 30<sup>th</sup>, 2023**

# RISIS



RESEARCH INFRASTRUCTURE FOR SCIENCE  
AND INNOVATION POLICY STUDIES

DEPARTMENT OF COMPUTER, CONTROL, AND  
MANAGEMENT ENGINEERING ANTONIO RUBERTI



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## Methods in Action Series

### Pitfalls and Potentialities of Probabilistic Graphical Models

**May 8<sup>th</sup> 11<sup>th</sup> 15<sup>th</sup>, 2023**



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## COURSE OBJECTIVES

## PROGRAM AND CONTENTS

## AUDIENCE TARGETED

- Introduce Graphical Models to identify causal relationships
- Introduce to the use of Graphical Models for explanation or for predicting the effects of policy interventions.
- Offer a review of the methods for causal discovery based on graphical models that were developed in the past three decades.
- Present illustrations and applications to real data
- Practice in groups on the presented models

### 8 May 2023

9:00–09:15 Introduction to the Course  
09:15–10:30 Lecture on Graphical Models for Causal Inference by **Alessio Moneta**  
10:30-10:45 Coffee break  
10:45–11:30 Examples and illustrations in R by **Alessio Moneta**  
11:30–12:00 Task assignment

### 11 May 2023

13:00–15:00 interim discussion with groups lead by **Simone Di Leo** and **Giammarco Quaglia**

### 15 May 2023

9:00–11:00 Group presentations  
11:00–12:00 Final discussion and assessment

Short bio: **Alessio Moneta** is Associate Professor of Economics at the Institute of Economics and coordinator of the PhD Program in Economics, Scuola Superiore Sant'Anna, Pisa. His research interests lie on causal inference in macroeconometrics, model validation, applied macroeconomics, and methodology of economics.

The course aims at involving participants among the following categories:

- Early career researchers
- PhD students
- People from the policy making world wishing to extend their analytical capabilities
- Data scientists interested in knowing the potentialities Graphical Models for causal inference

## REQUIREMENT FOR PARTICIPATION

Basic requisites for admission will be:

- Knowledge of basic principle of statistics
- Basic knowledge of the software R