

## ORGANIZATIONAL DETAILS

- No fees to be paid
- Venue of the trainees (travel and accommodation) will be covered only in case of researchers, early researchers and PhDs coming from European countries
- No costs are covered for people not involved in research activities (i.e. people from associations or policy level)
- Participants will be selected on the basis of their interests and CV
- Notification of acceptance will be sent after the selection process is completed



### Venue

IRCrES CNR  
Research Institute on Sustainable Economic Growth  
of the National Research Council of Italy  
Via dei Taurini 19, Rome, Italy

### Start date

November 20, 2017

### End date

November 21, 2017

### Call to be opened by

September 11, 2017  
available at: [risis.eu/training](http://risis.eu/training) and [www.ir cres.cnr.it](http://www.ir cres.cnr.it)

### Deadline for request participation

October 8, 2017



**RISIS**  
Research infrastructure for research  
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Consiglio Nazionale delle Ricerche  
**IRCrES**  
ISTITUTO di RICERCA sulla CRESCITA ECONOMICA SOSTENIBILE  
RESEARCH INSTITUTE on SUSTAINABLE ECONOMIC GROWTH

**AIT**  
AUSTRIAN INSTITUTE  
OF TECHNOLOGY  
TOMORROW TODAY

### LOCAL ORGANIZING COMMITTEE

Dr. Antonio Zinilli, Dr. Emanuela Reale,  
Dr. Andrea Orazio Spinello, Dr. Marco De Biase

Contacts: Dr. Marco De Biase ([marco.debiase@ircres.cnr.it](mailto:marco.debiase@ircres.cnr.it)),  
Dr. Antonio Zinilli ([antonio.zinilli@ircres.cnr.it](mailto:antonio.zinilli@ircres.cnr.it))

*Introduction to methods  
and applications to the  
JoREP/EUPRO database  
with Network Analysis  
approaches*

### Short Course



**November 20-21, 2017**



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## COURSE OBJECTIVES

Network analysis techniques have been widely used in social sciences.

The course will give an introduction to the basics of social network analysis (SNA), inferential network analysis by means of spatial interaction modelling (SIM), and respective software tools. The methods and tools will be trained in form of applications to relevant real-world examples using data from unique datasets on European R&D collaboration. The aim is to introduce the participants to statistical methods for network analysis, providing them with an understanding of the potential applicability of these methods to different types of networks and to various research questions in the field of R&D networks and collaborations. Two RISIS unique databases on European R&D collaboration are used for the practical sessions: JoREP 2.0 and EUPRO (for details please visit <http://datasets.risis.eu>).

At the end of the course, the trainee will be able to carry out basic SNA and inferential analyses of networks through the R software handling the two datasets.

## PROGRAMME AND CONTENTS

### Day 1 - November 20, 2017

09:30	Registration
10:00 – 10:30	Welcome: RISIS project and opportunities for researchers
10:30 – 11:30	Introduction to the main characteristics of JoREP and EUPRO
11:30 – 12:30	Basic concepts of Social Network Analysis
13:30 – 15:00	Some illustrative examples of SNA and basic network inferential analysis from EUPRO and JoREP
15:30 – 16:30	Organization of the laboratory and short introduction in R
16:30 – 17:30	Introduction of the case studies and objectives. Creation of groups and provision of data

### Day 2 - November 21, 2017

9:30 – 11:00	Demonstration of case study methodologies (SNA, network visualization, SIM)
11:30 – 12:30	Laboratory work by groups. Interpretation of the results and preparation of the presentations
13:30 – 15:30	Laboratory work continued
15:30 – 17:30	Presentation by groups and discussion

## AUDIENCE TARGETED

The course aims at involving up to 15 participants and is addressed to:

- Senior scientist, early career researchers and PhD students at the last phase of their training
- Officers from the policy making level (e.g. funding agencies);
- Research associations.

## REQUIREMENTS FOR PARTICIPATION

- Knowledge of basic principle of statistics and regression analysis
- Good working knowledge of statistical software R
- Interest in studies of R&D networks and collaboration.



This course is part of the  
Training Activities of the RISIS Project  
(<http://risis.eu/training>)