INSTRUCTOR

Martina Neuländtner and Thomas Scherngell, AIT Austrian Institute of Technology

Reference paper for the course

Neuländtner, M., & Scherngell, T. (2022). R&D networks and their effects on knowledge exploration versus knowledge exploitation: Evidence from a spatial econometric perspective. ***Industry and Innovation***, 1-32

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ORGANIZATIONAL DETAILS

Online course including:

- Online lecture on spatial regression models as adequate instruments to estimate drivers of innovation at regional level
- Group exercises where participants will apply spatial regressions models using example datasets
- Plenary discussion on pros and cons of regression strategies and how to motivate them to the reviewers

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

Maximum no. of participants: 16

Registration: by email to the organizer including a CV and a short statement of interest

Contact person: Martina Neuländtner, martina.neulaendtner@ait.ac.at

DEADLINE FOR registration August 29, 2022

RISIS

RESEARCH INFRASTRUCTURE FOR SCIENCE AND INNOVATION POLICY STUDIES

Università della Svizzera italiana

Methods in Action Series

Spatial regression models for estimating determinants of regional knowledge creation

September 5 & 12, 2022

This project is funded by the European Union under Horizon2020 Research and Innovation Programme Grant Agreement n°824091

COURSE OBJECTIVES

- Dealing with common issues in spatial regression models on research and innovation data at the regional level
- Including Spatial Durbin Models, spatial weight matrices and coefficients interpretation (direct, indirect spillover and total effects)
- Application to an interesting recent research debate, investigating drivers of different modes of regional knowledge creation
- Specific emphasis shifted to the impact of R&D networks on regional knowledge *exploration* versus knowledge *exploitation*

PROGRAM AND CONTENTS

Monday 5th of September 2022

9:00-09:15 Introduction to the Course

09:15-10:00 Lecture: Basics of spatial econometrics

10:30-11:30 R tutorial on how to estimate spatial regression models

11:30-12:15 Creation of the groups and task assignment

Interim discussion with groups online upon request on September 7 (instructors stay online)

Monday 12th of September 2022

9:00-10:00 Group presentations

10:00-10:30 Final discussion and assessment of the use of methods

AUDIENCE TARGETED

The course aims at involving participants among the following categories:

- Senior scientists, early career researchers focusing on empirical research
- PhD or master students at the last phase of their training
- Research intermediaries (e.g. research association like Science Europe).

REQUIREMENT FOR PARTICIPATION

Basic requisite for admission will be:

- Knowledge of basic principles of statistics, as well as of Ordinary Least Squares (OLS) regression
- Solid working knowledge of R-Cran programming