



# RISIS TRAINING – CALL FOR SUBMISSION



## Thematic and spatial analysis of technologies using Cortext and RISIS patent database

ON LINE COURSE  
28-30 March 2022



### COURSE PRESENTATION

Technology considered as a key driver for economic growth is an important factor of economic analysis. Despite some well investigated drawbacks, patents, provide powerful insights of technology development. In order to fully take advantage of these well codified markers of new knowledge, it is necessary to master tools and methodologies to dig into patent information. This is the aim of this workshop.

#### OBJECTIVES:

This workshop aims at providing methodological and practical skills to analyse patent documents. It relies on the facilities available at UGE in Paris, the RISIS Patent Database and the Cortext tool.

The workshop will be centred on two dimensions of the technology analyses using patents: network analysis and geography.

Participants will first investigate technology dynamics through network analysis of cooccurrences of patent classes (co-classification) and cooccurrences of terms (resulting from automatic lexical treatment) appearing in patent titles and abstracts.

Second, participants will explore the spatial dimension of technology development analysing inventor locations as they appear in patent documents. Addresses will be geo-coded and allocated to different geographical units: country, regions and metropolitan areas.

#### EXPECTED OUTCOMES:



Participants will learn about the possibilities proposed by the Cortext facility to process patent data and will use Cortext to process their own data sample. At the end of the workshop, participants should be able to carry out such data analyses using Cortext on their own.

## TARGET AUDIENCE:

This course targets researchers aiming to master tools and methodologies to dig into patent information.

It is addressed to:

- Senior scientists, early career researchers and PhD students
- Policy makers at the local, regional, national and international level (e.g., European Commission)
- Research associations

## PROGRAM OF COURSE

28/03/22

10h -12h: Section 1: (lecture session): Introduction to the use of patents for thematic and spatial analysis of technologies,

14h -16h: Section 2: Presentation of the infrastructures: the RISIS Patent Database and the Cortext platform and demo on the possibilities of Cortext to analyse a set of patents from RPD.

29/03/22

10h-12h: Section 3: Introduction to the practical session in groups

14h -17h30: Section 4: (practical session in groups) Network analysis and geo analysis of patent data using Cortext (geocoding and allocation to Urban and Rural Areas of addresses and mapping)

30/03/22

10h -12h30: Final session - Restitution of the practical session - Presentation by the participants



## CONDITIONS FOR PARTICIPATION

### SELECTION CRITERIA:

Priority will be given to early career researchers and PhD students aiming to master tools and methodologies to dig into patent information.

Participants should have some basic notions about patents, IP and STI analysis.

It is not necessary for participants to have already used Cortext facilities.

### ORGANISATIONAL DETAILS:

This course will be an online course.

### HOW TO APPLY:

Send your application to [patricia.laurens@esiee.fr](mailto:patricia.laurens@esiee.fr) describing your motivations and adding a short bio.

## ORGANISING COMMITTEE AND CONTACT DETAILS

This course is organised by LISIS (Laboratoire Interdisciplinaire Sciences Innovations Societes)  
at University Gustave Eiffel (UGE) PARIS – France

Local organizing committee:

Patricia Laurens (LISIS-CNRS)

Antoine Schoen (LISIS-ESIEE-UGE)

Lionel Villard (LISIS-ESIEE-UGE)

This course is part of the  
Training Activities of the RISIS2 Project  
(<http://risis2.eu/training>)

