WORKSHOP

BIBLIOMETRIC AND SCIENCE MAPPING ANALYSES FOR RESEARCH SYNTHESIS THROUGH BIBLIOMETRIX R PACKAGE

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Academic publications are dramatically growing at a fast pace and it is increasingly unfeasible to keep track of all that is being published. Moreover, the emphasis on empirical contributions has resulted in a voluminous and fragmented research stream and contested field. Nowadays, **stand-alone literature reviews** are extensively used in various fields for synthesizing findings from previous research, for using effectively the existing base of knowledge and enlarging its boundaries, for providing evidence-based guidelines to practice. Scholars use various qualitative and quantitative approaches to make sense of earlier findings. Among them, **bibliometric and science mapping analyses are powerful approaches to perform systematic, transparent, and reproducible reviews, especially with big volumes of data (big data).**

This seminar has two main goals. The first is introducing all the different types of research synthesis. The second is presenting bibliometric and science mapping analyses for systematic literature reviews. During the seminar, the participants will perform a bibliometric and science mapping analysis.

WORKSHOP ACTIVITIES AND LEARNING OBJECTIVES

Activities

- Presentations followed by activity learning and discussion of already published systematic literature reviews.
- Hands-on tutorial where participants are engaged in individual analyses/application of the Bibliometrix R package and short group work activities facilitated by the organizers.

Learning Objectives

The seminar will enhance participants' skills for bibliometric analysis in the following stages:

- Search: the choice of bibliographic databases; their professional use; the building of a dataset; the cleaning of data.
- Appraisal: the choice of inclusion/exclusion criteria.
- Analysis: the use of R package Bibliometrix; the descriptive analysis (impact, productivity, trends, bibliometric laws); the analysis of conceptual, intellectual, and social structures of knowledge (network analysis; data reduction analysis; thematic evolution).
- Synthesis: data visualization, with maps, matrices, and networks.

TEACHING MATERIALS

Teachers will provide:

1. A collection of scientific papers, available on www.bibliometrix.com.
2. The training dataset.
3. Their teaching materials.
4. The R-package Bibliometrix.