

Inter-Institutional Relationships and Student Mobility

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Universiteit Leiden
The Netherlands

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Traditional methods

- Senior travelling delegation (coming or going)
- Various extents of mutual knowledge
- Similarity of disciplines and standing
- Conclude to make agreement
- Faculties or individual academics left to make something of it
- 10% of agreements may be active
- Many attempts to clean up

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Academic Trust

- In terms of student mobility during program:
 - sending institution remains academically responsible for the student
 - Credit for achievements taken up in home institution academic record
- Academic trust relates to the transfer of academic responsibility and the confidence that this transfer is a responsible action

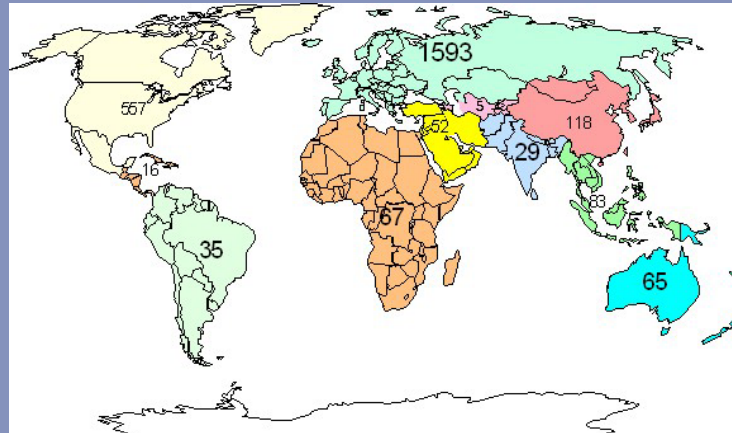
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What are your 5 most important links ?

- On-line survey
- Takes 3 minutes to complete
- Also asks: did you live for more than 3 years in any other country
- Does **not ask** for:
 - name of the linked individual
 - Name of the department or section
- Does ask for:
 - Name of the institution
 - Nature of link: teaching, research, both

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Leiden University's Academic Links (50%)



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Data for bibliometric analysis

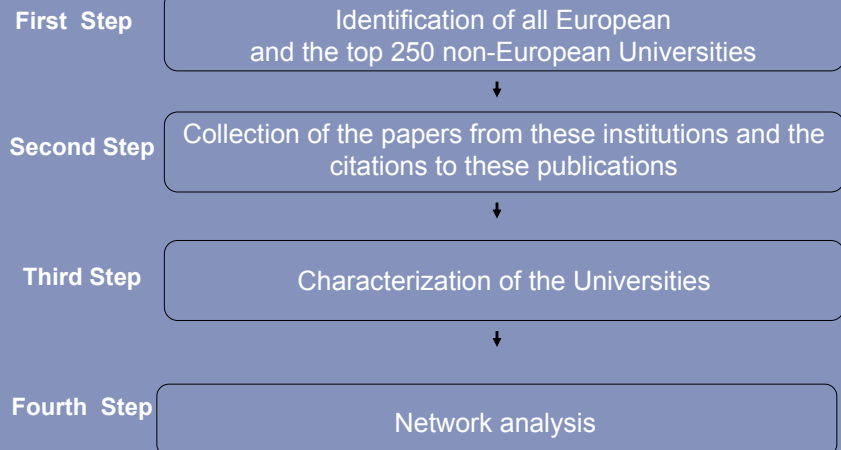
The data for this study are partly based on a project funded by European Commission (EC):

ASSIST

(Analysis and Studies and Statistics & Indicators on Science and Technology)

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Methodology bibliometric analysis



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Methodology First step

Identification based on authors' addresses in publications:

- All the European universities.
- The top 250 non-European universities (in terms of number of publications).

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Methodology

Second step

For each University during the time period 1997-2004 :

- Collect the papers (published in the various fields).
- The citations (corrected for self-citations) to these publications.

Note: The publication and citation data were extracted from journals processed by Thomson Scientific for the Web of Science.

Methodology

Third step

Each university is characterized by:

- Number of papers published.
- The field normalized citation impact indicator of an university's publication output.

Methodology

Fourth step

Network Analysis

- A network analysis is applied to represent relations between the universities based on co-authorship, and to identify patterns of co-publication activity.
- The universities in the network map are characterized by the modalities explained in the third step.

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Methodology

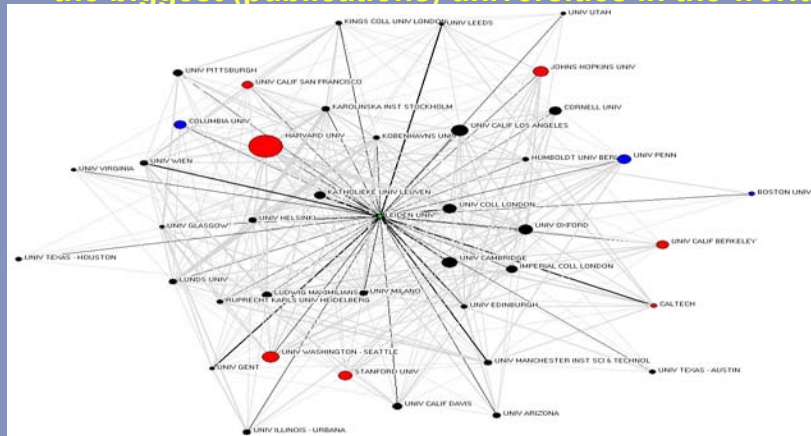
Fourth step

Network Analysis

- Leiden University co-publication activity shows in this project is based on the co-publication activity with the biggest (in terms of number of papers) 100 universities in the world and with the biggest (in terms of number of papers) 100 universities in Europe.

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Leiden University strongest co-publication activity with the biggest (publications) universities in the world



Nodes: Universities
Size of the Nodes: Proportional to the number of papers published by the University.
Color of the Nodes: Red: Top 10 universities with the highest
 Blue: Next 10 universities with the highest impact
 Black: The rest
Links or edges: The strength of the co-publication activity (normalized, Salton Index ≥ 0.01).

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TOP 20 Universities and research centers for both studies

SURVEY STUDY RESULTS

Max Planck Institute
Katholieke Universiteit Leuven
Karolinska Institute Stockholm
Harvard University
University of Cambridge
University of Oxford
University of Gent
University College London
University of Helsinki
 ETH Zürich
University of Edinburgh
Imperial College London
University of Manchester
 Stanford University
 European Southern Observatory
 Yale University
 CNRS
 University of California-Berkeley
 MIT
 University of California-Santa Barbara

BIBLIOMETRIC STUDY RESULTS

Katholieke Universiteit Leuven
University of Cambridge
University College London
Harvard University
University of Oxford
University of Manchester
 University Wien
 University Milano
University of Helsinki
University of Edinburgh
Imperial College London
 Caltech
 University California - Los Angeles
University of Gent
 Ruprecht Karls University Heidelberg
 Kobenhavns University
Karolinska Institute Stockholm
 University Toronto
 Johns Hopkins University
 University Washington - Seattle

Note: In Red and *Italic* appear the universities that are in both tables.

SURVEY RESULTS.- The 20 Universities and Research Centers most mentioned on the survey.

BIBLIOMETRIC STUDY RESULTS.- The 20 foreign universities with which Leiden Univ co-published the most (based on the top 100 biggest research universities in terms of number of papers published).

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Conclusions

- Clear pattern of relationships
- Agreement between perception and output
- Central support for already active relationships
- Must also pay attention to blind spots
- Enhance participation in survey through reward marketing of the program
- Student mobility to 'well known' partner institutes