World Cities of Scientific Knowledge: Systems, Networks and Potential Dynamics. An Analysis Based on Bibliometric Indicators

This paper is based on identification of the pattern of the upper level of the world city network of knowledge as published in a series of papers. It is our aim to update the findings and relate to the general world city discussion. The structure of the world cities of knowledge network has changed over the last decade in favour of south east Asian and south European cities and in disfavour of the traditional centres of North America and north-western Europe. The analysis is based on bibliometric data on the world’s 100 largest cities measured in terms of research output. Then level of co-authorships between researchers in different cities is an indicators of links and respect, and the number of citations to papers produced by researchers located in each city is an indicator of respect. Finally, one research discipline is selected for an experiment in forecasting future hot spots of research.

General information
Publication status: Published
Organisations: Vitis - Knowledge to Society, Administration, University of Copenhagen
Contributors: Matthiessen, C. W., Schwarz, A. W., Find, S.
Pages: 1879-1897
Publication date: 2010
Peer-reviewed: Yes

Publication information
Journal: Urban Studies
Volume: 47
Issue number: 9
ISSN (Print): 0042-0980
Ratings:
BFI (2010): BFI-level 2
Scopus rating (2010): SJR 1.442 SNIP 1.738
Web of Science (2010): Impact factor 1.513
Web of Science (2010): Indexed yes
Original language: English
DOIs: 10.1177/0042098010372683
Source: orbit
Source-ID: 266356
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review