KNOWeSCAPE



Identification, location and temporal evolution of topics Data and algorithm – comparison of approaches

Library and Information Centre of the Hungarian Academy of Sciences Arany János st. 1, 1051 Budapest 29-30 August 2016

The KNOWeSCAPE COST workshop builds on a series of workshops in Berlin, Amsterdam, Istanbul about research diversity and the metrical challenge to delineate topics. At the Budapest event, experts are invited to present their approaches to identify and trace topic evolution over time. Among them is a group of researchers (Same data, different results - special session at ISSI 2015) who will present their insights concerning different methods for topic delineation, and ways to compare them to a wider audience. Three additional topics will be addressed: How to organise a topic delineation challenge in the metrics community? How to best engage with experts in the evaluation of topics maps and their evolution? How can the science of topic delineation, and, science mapping in general, better inform taxonomies of scientific research used in research evaluation? The latter points are of particular interest for the social sciences and humanities, which are increasingly exposed to metric based evaluative practices.

Invited experts include:

KEVIN BOYACK (SciTech Strategies, Inc, USA) **PETRA AHRWEILER** (EA European Academy of Technology and Innovation Assessment GmbH, Germany) JUDIT BAR-ILAN (Bar-Ilan University, Israel)

The workshop is supported by the COST Action TD1210 Knowescape, and the FP7 Project Impact-EV.

KNEWeSCAPE "Analyzing the dynamics of information and knowledge landscapes" http://knowescape.org/

Organisation:

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EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

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IN SCIENCE AND TECHNOLOGY

Workshop program

Monday 29th August 2016

08.30 Registration

- 09.00 Welcome
- 09.15 **Theresa Velden**: Mapping the cognitive structure of astrophysics combining different levels of organization: a citation and journal based approach
- 09.45 **Wolfgang Glänzel**: Lexical analysis of scientific publications for nano-level scientometrics
- 10.15 Coffee Break
- 10.45 **Kevin Boyack**: The Tradeoff between Altruism and Economic Growth in the Research Focus of Nations
- 11.15 Tim Evans: The Location of Papers in Topic Space-Time
- 11.45 **Edgar Schiebel**: Bibliometric field delineation with heat maps of bibliographically coupled publications using core documents and a cluster approach—the case of multiscale simulation and modelling
- 12.15 **George Kampis**: Blindfolded NLP: Unsupervised Learning for Automatically Generating Topic Labels
- 12.45 Lunch Break

Panels and Discussions

- 14.15 Author panel on the *Scientometrics* special issue "Same data, different results" Facilitator: Andrea Scharnhorst
- 15.45 Coffee Break
- 16.15 Validation methods for topic extraction results (Discussion) Facilitator: Jochen Gläser

Tuesday 30th August 2016

- 09.30 Marcus John: Technology foresight and the concept of emerging topics
- 10.00 **Sándor Soós**: Disciplinary structure and topical complexity in SSH—the IMPACT EV mission
- 10.30 Coffee Break
- 11.00 Haluk Bingol: Context sensitive article ranking with citation context analysis
- 11.30 Péter Polner: Quantifying the changing role of past publications
- 12.00 Gergely Tibély: Hierarchical organisation of scientific journals
- 12.30 Lunch Break

Panels and Discussions

- 14.00 Andrea Scharnhorst: Future plans on the challange of topic extraction (Discussion) Facilitator: Theresa Velden
- 15.00 Synergies with the IMPACT EV project (Discussion for participants of the project) Facilitator: **Sándor Soós**

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