

Bibliometric-enhanced Information Retrieval (BIR)

Philipp Mayr, Philipp Schaer, Peter Mutschke,
Andreas Scharnhorst, Birger Larsen

ECIR 2014, Amsterdam (NL)
2014-04-13

<http://www.gesis.org/en/events/conferences/ecirworkshop2014/>

Who we are



Andrea Scharnhorst



Birger Larsen



Philipp Schaer



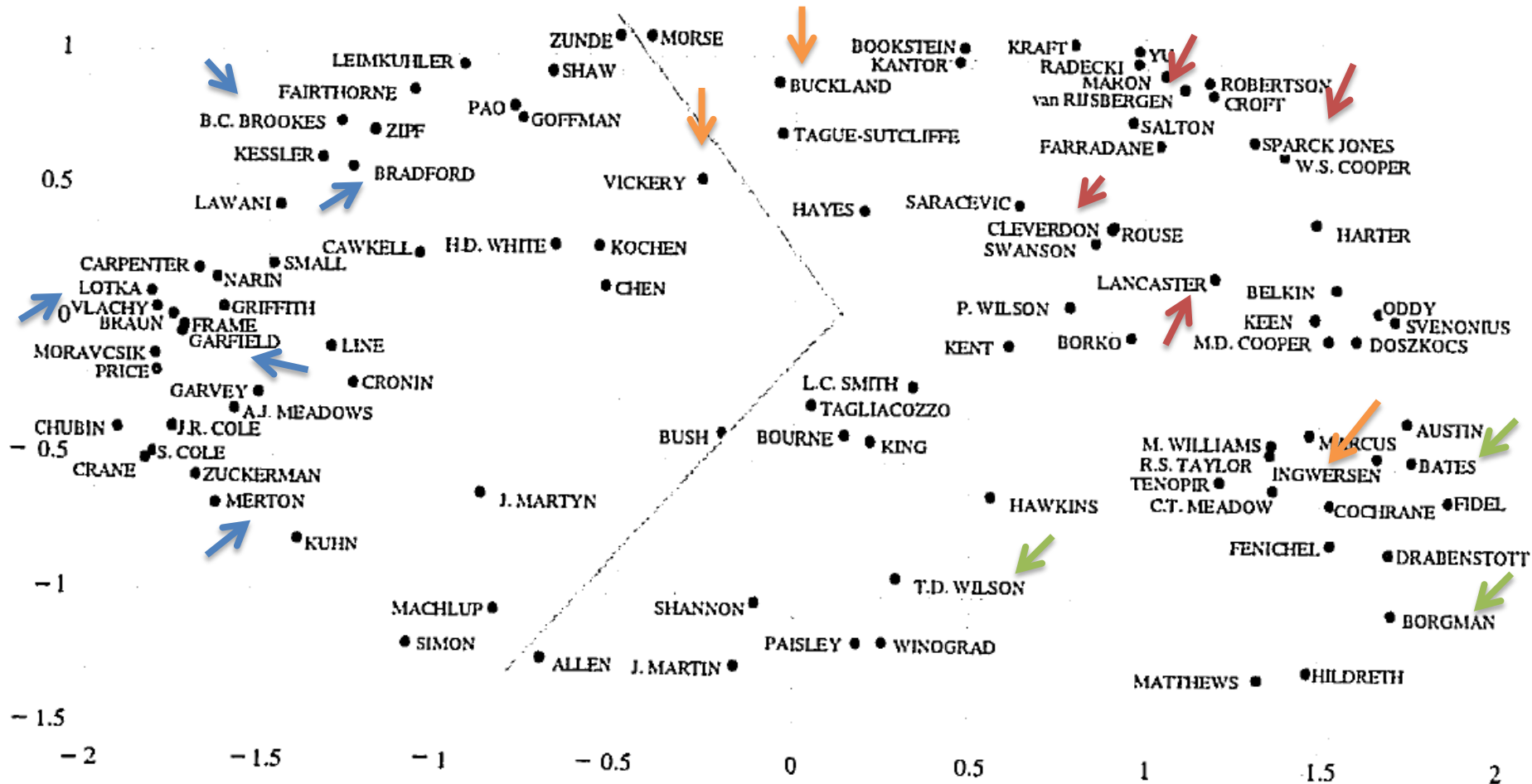
Peter Mutschke



Philipp Mayr

- Successful workshop at ISSI 2013 „Combining Bibliometrics and Information Retrieval“ <http://www.gesis.org/en/events/conferences/issiworkshop2013/>
- Our interests include information retrieval, information seeking, science modeling, network analysis, information visualization, and digital libraries...

Bibliometrics and IR: Two subdisciplines in Information Science



Why is the workshop at ECIR?

Workshop ideas

- We aim to raise awareness of the missing link and to create a common ground for the incorporation of bibliometrics/science modeling and retrieval in digital libraries.
- After ISSI, moving to the core-IR community
- The goal is to
 - explore how statistical modelling of scholarship, such as Bradfordizing or network analysis of co-authorship network, can improve retrieval services
 - apply insights from bibliometrics, scientometrics, and informetrics to practical problems of retrieval and browsing in Digital Libraries

Workshop Agenda

10 min for each paper!

- Introduction
- Paper Session Block A
 - Marc Bertin and Iana Atanassova: A Study of Lexical Distribution in Citation Contexts through the IMRaD Standard
 - Nees Jan van Eck and Ludo Waltman: Systematic retrieval of scientific literature based on citation relations: Introducing the CitNetExplorer tool
 - Group discussion (Chair: Philipp Schaer)
- Paper Session Block B
 - Muhammad Kamran Abbasi and Ingo Frommholz: Exploiting Information Needs and Bibliographics for Polyrepresentative Document Clustering
 - Haozhen Zhao and Xiaohua Hu: Language Model Document Priors based on Citation and Co-citation Analysis
 - Group discussion (Chair: Peter Mutschke)
- Break (30 min)

30 min group discussions!

Workshop Agenda

- Paper Session Block C
 - Zeljko Carevic and Philipp Schaer: On the Connection Between Citation-based and Topical Relevance Ranking: Results of a Pretest using iSearch
 - Kris Jack, Pablo López-García, Maya Hristakeva and Roman Kern: {{citation needed}}: Filling in Wikipedia's Citation Shaped Holes
 - Group discussion (Chair: Andrea Scharnhorst)
- Summary

Group discussions

Take notes while discussing the papers, somebody should summarize results for each paper block

- Group A - Bibliometrics ++
- Group B - Bibliometrics +
- Group C - Bibliom. + IR
- Group D - IR +
- Group E - IR ++

Group discussions

1. Is Information Retrieval helping Bibliometrics or is it the other way around?
2. Who are the clients for "Bibliometrics-meets-IR"?
3. Could "Bibliometrics-meets-IR" reach out to information visualization? If yes, how?
4. "IR use case as a **validation model** of the adequacy of science models in representing and predicting structure and dynamics in science"? (Mutschke et al. 2011)
5. Where do you see open research question? How can these be addressed?
6. How can we stabilize the link between Bibliometrics and Information Retrieval? Is this event a unique event?

Thanks a lot

- Group A, B, C:

we will consolidate the GoogleDocs and communicate!

Outlook

- We will share all resources on the workshop website
- Special issue in Scientometrics based on the workshop topic to appear (end of 2014)
- What did you like?
- Follow-up workshop next year? SIGIR? Hackathon?
- Cost action <http://knowescape.org/>

Thank you

Contact:

Dr Philipp Mayr

GESIS – Leibniz Institute for the Social Sciences, Germany

Email: philipp.mayr@gesis.org

Twitter: @philipp_mayr

- Workshop website
<http://www.gesis.org/en/events/conferences/ecirworkshop2014>
- CEUR Workshop Proceedings
<http://ceur-ws.org/Vol-1143/>