



ISSI 2011 Conference

Durban, 4-7 July 2011

Final program



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RESEARCH

Monday July 4th, 2011

Tutorials

Location (to be announced)

09:00 **Tutorial A**

Introduction to Scientometrics & Webometrics

Peter Ingwersen

12:30 **Lunch**

13:30 **Tutorial B**

Sci2: A Tool of Science of Science Research and Practice

Katy Börner

17:00 **End of the day**

Doctoral Forum

Location (to be announced)

08:00 **Registration**

08:30 Theoretical and Empirical Investigation of Citation Reasons and Exploring Scientific Life Cycle of Highly Cited Scholars

Fereshteh Didegah, University of Wolverhampton, UK

09:15 Identification of emerging fields in science

Carolin Michels, Fraunhofer Institute for Systems and Innovation Research ISI, Germany

10:00 The characteristic and impact of non-source items in social sciences – a pilot study of two departments of political science in Germany

Pei-Shan Chi, Institute for Research Information and Quality Assurance, Germany

10:45 **Coffee Tea break**

11:15 Doctoral forum application

Björn Hammarfelt, Uppsala University, Sweden

12:00 Mapping R&D support infrastructures established by interconnections between institutional sectors on the web: a link analysis of organizational innovation structures (science parks) in dynamic and innovative regions

David Minguillo, Statistical Cybermetrics Research Group, SCIT, University Of Wolverhampton, UK

12:45 **Lunch**

13:45 Mapping the structure of scholarly knowledge through peer reviewed journals, encyclopedias and Wikipedia

Ehsan Mohammadi, School of Technology, University of Wolverhampton, UK

14:30 Application to ISSI 2011 doctoral forum

Angela Zoss, Indiana University, USA

15:15 Bibliometric methods for research quality Assessment in medicine

Jens Peter, Royal School of Library and Information Science, Denmark

16:00 Research output and impact from Kenya's public universities in comparison to South Africa: informetric analysis, 2000-2009

Irene Muthoni Kibandi, University of Zululand, South Africa

16:45 **Closing remarks and refreshments**

Final programme Main meeting

Session chairs between parentheses

We allocated 25 minutes for full papers and 15 minutes for RiP papers (both including discussion)

Tuesday July 5th, 2011

	Room 1	Room 2	Room 3
09:00	Opening address and keynote (Dennis Ocholla) Prof. Bawa, the Rector and Vice Chancellor of Durban University of Technology <i>Welcome and opening of the conference</i> Anastassios Pouris <i>Scientometric research in South Africa and successful policy instruments</i>		
10:15	National studies 1 (Jonathan Adams) Okon Ani and Bosire Onyancha <i>A measure of productivity of Nigerian universities: a bibliometric analysis (FP)</i> Collazo Francisco, Luna María Elena, Russell Jane and Pérez Miguel Ángel <i>Emergence and convergence of scientific communication in a developing country: Mexico 1900-1979 (FP)</i>	Science & Technology & Innovation (Ulrich Schmoch) Jiping Gao and Kun Ding <i>Hybrid Documents Co-citation Analysis: a Suggested Method to Analyze the Interaction between Science and Technology in Technology Diffusion (FP)</i> Tom Magerman, Bart Van Looy and Koenraad Debackere <i>In search of anti-commons: Patent- Paper Pairs in Biotechnology. An Analysis of Citation Flows. (FP)</i> Robert Abercrombie and Akaninyene Udoeyop <i>A Study of Scientometric Methods to Identify Emerging Technologies (FP)</i>	Methodology 1 (Eric Archambault) Javier Ruiz-Castillo and Neus Herranz <i>Average-based versus high- and low-impact indicators at the sub-field and other aggregate levels (RiP)</i> Thomas Gurney, Edwin Horlings and Peter Van Den Besselaar <i>Author Disambiguation Using Multi-Aspect Similarity Indicators (RiP)</i> Milos Jovanovic and Frank Fritsche <i>There goes another one: Introducing the NUCA-set of indicators (RiP)</i> William Peter Dinkel <i>How do matchkeys affect citation counts? First steps towards an error calculus for bibliometric indicators (RiP)</i>
11:30	Coffee/Tea break		
12:00	Journal analyses 1 (Dag W Aksnes) Henk Moed <i>SNIP and Beyond (FP)</i> Stefanie Haustein <i>Taking a Multidimensional Approach Toward Journal Evaluation (FP)</i> Akakandelwa Akakandelwa and Dennis Ocholla <i>An Informetric Analysis of Selected Journals in the African Journals OnLine (AJOL) (RiP)</i>	Science & Technology & Innovation (cont'd) Bart Van Looy, Mariette Du Plessis, Martin Meyer and Koenraad Debackere <i>The impact of legislative framework conditions on the technological performance of European Universities: An empirical assessment (EU) (FP)</i> Julie Callaert, Joris Grouwels and Bart Van Looy <i>Delineating the scientific footprint in technology: Identifying science within non-patent references (FP)</i> Jos Winnink and Robert J.W. Tijssen <i>R&D dynamics in the development of HIV/AIDS drugs (RiP)</i>	Webometrics 1 (Isidro F Aguillo) Xuemei Li, Mike Thelwall and Dean Giustini <i>Validating Online Reference Managers for Scholarly Impact Measurement (FP)</i> Kim Holmberg <i>Discovering shared interests through co-outlinking in a municipal web space (FP)</i> Ronan Mchugh and Birger Larsen <i>Analysing User Activity in Online Collaboration Projects (RiP)</i>
13:05	Lunch break		

Afternoon

14:30 Journal analyses 2 (*Theodora Van Leeuwen*)

Xinhai Liu, Wolfgang Glänzel and Bart De Moor
A hierarchical and optimal clustering of WoS journal database by hybrid information (FP)

Kevin W. Boyack and Richard Klavans
Multiple dimensions of journal specificity: Why journals can't be assigned to disciplines (FP)

Liming Liang, Ronald Rousseau and Zhen Zhong
Non-English Journals and Papers in Physics: Bias in Citations? (FP)

Eric Archambault, Olivier H. Beauchesne and Julie Caruso
Towards a Multilingual, Comprehensive and Open Scientific Journals Ontology (FP)

Disciplinary studies 1 (*Fredrik Astrom*)

Grant Lewison
The definition of cancer research: journals, titles, abstracts or keywords? (FP)

Ulle Must
Alone or together – examples from history research (FP)

Jens Peter Andersen and Jesper Wiborg Schneider
Influence of study design on the citation patterns of Danish, medical research (FP)

Ismael Rafols, Loet Leydesdorff and Alice O'Hare
How journal rankings suppress interdisciplinarity. The case of innovation studies vs. business and management (FP)

Collaboration 1 (*Wolfgang Glänzel*)

Jonathan Levitt, Mike Thelwall and Michael Levitt
To what extent does the citation advantage of collaboration depend on the citation counting system? (FP)

Juan Gorraiz, Ralph Reimann and Christian Gumpenberger
The Importance of Bilateral and Multilateral Differentiation in the Assessment of International Collaboration - a case study for Austria and six countries (FP)

Eric Archambault, Olivier H. Beauchesne, Grégoire Côté and Guillaume Roberge
Scale-Adjusted Metrics of Scientific Collaboration (FP)

Ryan Zelnio
The Global Structure of International Scientific Collaborations (FP)

16:10

End of the day

Wednesday July 6th, 2011

Room 1	Room 2	Room 3
09:00 Keynote address (Ronald Rousseau)		
Olle Persson <i>Short, Strong and Simple Mapping of Research Fields</i>		
10:00 Emerging fields (Grant Lewison)	Networks 1 (Loet Leydesdorff)	National studies 2 (Aparna Basu)
Wolfgang Glanzel and Bart Thijs <i>Using 'core documents' for detecting new emerging topics (FP)</i>	Jennifer Plank and Subhasish Mazumdar <i>Semantic Hubs and Authorities for Citation Analysis (FP)</i>	Dr Divya Srivastava, Ms Renu Bahadur and Ms Sandhya Diwakar <i>HIV/AIDS papers from India: An analysis of AIDSLINE & SCI (2004-2009) for Policy makers (RiP)</i>
Henry Small and Richard Klavans <i>Identifying Scientific Breakthroughs by Combining Co-citation Analysis and Citation Context (FP)</i>	Fengjun Sun <i>Citation Genetic Genealogy: A New Perspective for Citation Analysis in Scientific Literature (FP)</i>	Valentina Markusova, Alexander Libkind, Alexander Varshavsky and Margriet Jansz <i>Research performance and collaboration in the Novosibirsk region (RiP)</i>
Edgar Schiebel <i>Research Fronts and Areal Density of Bibliographic Coupled Publications (FP)</i>	Matthew L. Wallace, Vincent Larivière and Yves Gingras <i>The small world of citations: How close are citing authors to those they cite? (FP)</i>	Nan Ma and Yi Zhao <i>Portrait of China's R&D activities in Nanoscience and Nanotechnology in bibliometric study (RiP)</i>
		Victor Bucheli, Adriana Díaz and Roberto Zarama <i>The growth of the scientific production of Colombian universities: An intellectual capital-based approach (RiP)</i>
		Katharina Hasitzka, Christian Gumpenberger, Juan Gorraiz and Martin Wieland <i>The "Sound of Bibliometrics": an analysis of its level of awareness and acceptance in Austria (RiP)</i>
11:15 Coffee/Tea break		
11:45 Methodology 2 (Leo Egghe)	Data sources 1 (Juan Gorraiz)	Funding studies (Ulle Must)
Loet Leydesdorff and Lutz Bornmann <i>Fractionally Counted versus Integer-Counted Impact Factors in the ISI Journal Set 2008 (FP)</i>	Jinyan Su <i>Study on Spatial Dependence of Information on Internet (RiP)</i>	Xianwen Wang, Di Liu, Kun Ding and Xinran Wang <i>Impact of Funding on Research Output: An Empirical Study on 10 Countries (FP)</i>
Lutz Bornmann, Loet Leydesdorff, Rüdiger Mutz and Tobias Opthof <i>Turning the tables in citation analysis one more time: From independent samples to comparing sub-samples in terms of percentile ranks (FP)</i>	Jacqueline Leta <i>Growth of Brazilian science: a real internationalization or a matter of databases' coverage? (RiP)</i>	Robert Shelton and Loet Leydesdorff <i>Bibliometric evidence for empirical trade-offs in national funding strategies (FP)</i>
Rodrigo Costas, Thed N. Van Leeuwen and Maria Bordons <i>Referencing patterns among individual researchers: study of the use of scientific literature from a micro-level perspective (FP)</i>	Peter Ingwersen and Anita Elleby <i>Do Open Access Working Papers Attract more Citations Compared to Printed Journal Articles from the same Research Unit? (RiP)</i>	Angela Zoss and Katy Borner <i>Mapping Interactions Within the Evolving Science of Science and Innovation Policy Community (FP)</i>
	Alesia Zuccala and Thed Van Leeuwen <i>Book Reviews in Humanities Research Evaluations (RiP)</i>	
	Gunnar Sivertsen and Birger Larsen <i>What to Include in a Social Sciences and Humanities Citation Index - an Empirical Analysis (RiP)</i>	
13:00 Poster session 1 and Lunch break		

Afternoon

14:30 **Keynote address (Peter Ingwersen)**

Ricardo Baeza-Yates
Web Link Analysis: A Personal View

15:30 **Webometrics 2 (Paul Wouters)**

Kayvan Kousha and Mike Thelwall
Assessing the Citation Impact of Book-Based Disciplines: The Role of Google Books, Google Scholar and Scopus (FP)

Isidro F. Aguillo
Is Google Scholar useful for Bibliometrics? A Webometric Analysis (FP)

Academic careers (Birger Larsen)

Lin Zhang and Wolfgang Glänzel
Where demographics meets scientometrics: towards a dynamic career analysis (FP)

Dag W Aksnes, Kristoffer Rorstad, Fredrik Piro and Gunnar Sivertsen
Age and scientific performance. A large-scale study of Norwegian scientists (FP)

Collaboration 2 (Alesia Zuccala)

Yuya Kajikawa, Junichiro Mori and Ichiro Sakta
Research Collaboration among Organizations: Structure and its Impact on Research Outcome in Interdisciplinary Fields (FP)

Bulent Ozel
Individual Cognitive Structures and Collaboration Patterns in Academia (FP)

16:20 **Coffee/Tea & Postersession 1 (cont'd)**

16:50 **Webometrics 2 (cont'd)**

Shuntaro Kawamura, Ryo Murayama, Takuma Asaishi, Takafumi Suzuki and Fuyuki Yoshikane
Growth of Hyperlink Network Formed by Web Pages of Japanese Public Libraries (FP)

David Minguillo and Mike Thelwall
The entrepreneurial role of the University: a link analysis of York Science Park (FP)

Academic careers (cont'd)

Gregory Lee
Lag between Staffing and Publication in Research Entities: The Case of a University Faculty (FP)

Networks and visualization (Nees Jan Van Eck)

Qiu Junping, Song Yanhui and Yang Siluo
Visualization analysis of research frontier and development trend in the branches of library information and archival science (FP)

Aparna Basu and Roland Wagner Dobler
Mapping the network of mathematics using 'cognitive mobility' or migration of authors between fields as an index (FP)

17:40 **End of the day**

Thursday July 7th, 2011

Room 1	Room 2	Room 3
09:00 Keynote address (Ed Noyons)		
Jonathan Adams <i>The Book Citation Index</i>		
10:00 Gender studies (Jane Russell)	Methodology 3 (Henk Moed)	Mapping/clustering 1 (Ludo Waltman)
Grant Lewison and Valentina Markusova <i>Female researchers in Russia: have they become more visible? (FP)</i>	Leo Egghe <i>The Hirsch-index of set partitions (FP)</i>	Omwoyo Bosire Onyancha <i>How is 'knowledge management' similar to or different from 'information management'? An informetrics perspective (RiP)</i>
Grant Lewison and Daisy Jacobs <i>Science in South Africa: have Black Africans, Coloureds and Indians prospered since the ending of apartheid? (FP)</i>	Shengbo Liu and Chaomei Chen <i>The Effects of Co-citation Proximity on Co-citation Analysis (FP)</i>	Denise Pimenta, Maria Cristina Guimarães, Cícera Da Silva Henrique Da Silva, Carla Paolucci Paolucci, Frederico Azevedo, Leonardo Melo, Rosane Abdala Lins De Santana and Eduardo Vieira Martins <i>Malaria research: Preliminary findings of a bibliometric approach (RiP)</i>
Jacqueline Leta and Gilda Olinto <i>Gender (im)balances in teaching and research activities in Brazil (FP)</i>	Ulf Sandstrom and Timo Koski <i>Estimating Productivity from a Zero-Truncated Distribution (FP)</i>	Feifei Wang and Junping Qiu <i>Author Co-citation Analysis of Information Science in China based on the CSSCI (RiP)</i>
		Antonio Perianes-Rodriguez, Ismael Rafols, Alice O'Hare, Michael Hopkins and Paul Nightingale <i>Benchmarking and visualising the knowledge base of pharmaceutical firms (1995-2009) (RiP)</i>
		Martin Meyer, Dirk Libaers, Bart Thijs and Wolfgang Glänzel <i>The Emergence of Entrepreneurship as a Research Field (RiP)</i>
11:15 Coffee/Tea break		
11:45 National studies 3 (Stefan Hornbostel)	New developments (Omwoyo Bosire Onyancha)	Mapping/clustering 2 (Jesper W Schneider)
Giorgio Sirilli, Alberto Silvani and Stefania Giuffrida <i>Research evaluation of the Italian CNR institutes: a missed opportunity? (FP)</i>	Cristhian Parra, Fabio Casati, Florian Daniel, Maurizio Marchese, Luca Cernuzzi, Marlon Dumas, Peep Küngas, Luciano García-Bañuelos and Karina Kisselite <i>Investigating the nature of scientific reputation (RiP)</i>	Yue Ting, Yang Li Ying, Ding Jie Lan and Han Tao <i>Comparison of Disciplinary Structure in Science between G7 and the BRIC countries by bibliometric methods (FP)</i>
Thed Van Leeuwen, Leo Kriegsman, Jan Van Tol and Joost Schokkenbroek <i>The changing role of Museums in the global scientific landscape (FP)</i>	Junping Qiu and Fangfang Wen <i>A Study on the Scientific Research Collaboration Network of "985 Project" Universities in China (RiP)</i>	Erjia Yan, Ying Ding and Elin Jacob <i>Overlaying communities and topics: An analysis on publication networks (FP)</i>
	Nees Jan Van Eck, Ludo Waltman and Robert J.W. Tijssen <i>Globalization of science: geographical distance measurements of research collaboration (RiP)</i>	
	Ulf Sandstrom <i>Plasticity and Bias in Peer Assessment: Critical Perspectives from Bibliometrics (RiP)</i>	
13:00 Poster session 2 and Lunch break		

Afternoon

15:00 Networks 2 (Jacqueline Leta)

Raf Guns

Bipartite networks for link prediction: Can they improve prediction performance? (FP)

Erjia Yan and Ying Ding

The effects of dangling nodes on citation networks (FP)

Chaoqun Ni, Cassidy Sugimoto and

Jiepu Jiang

Degree, Closeness, and Betweenness: Application of group centrality measurements to explore macro-disciplinary evolution diachronically (FP)

Ronald Rousseau

Algebraic structures in the ego article citation network (RiP)

Data sources 2 (Rodrigo Costas)

Carolin Michels and Ulrich Schmoch

Growth of Science and Database Coverage (FP)

Fredrik Åström

Comparing citation patterns in entrepreneurship research articles in subject handbooks and Web of Science journals (FP)

Alastair Smith

Wikipedia and institutional repositories: an academic symbiosis? (FP)

Antonio Garcia-Romero, José Manuel

Estrada and Jose M Rodriguez-Vallejo

Anatomy of scientific misconduct. Bibliometric analysis of the Deja Vu database (RiP)

Peer review (Gunnar Sivertsen)

Azzurra Ragone, Katsiaryna Mirylenka, Fabio Casati and Maurizio Marchese

A Quantitative Analysis of Peer Review (FP)

Dirk Holste, Edgar Schiebel, Marianne Hörlesberger, Ivana Roche, Dominique Besagni, Thomas Scherngell, Clair Francois and Pascal Cuxac

A concept for Inferring 'Frontier Research' in Research Project Proposals (FP)

Marc Luwel, Ed Noyons and Nees Jan Van Eck

A comparative bibliometric analysis of the STI and the ISSI conference series (FP)

16:30

End of the day