



17th INTERNATIONAL CONFERENCE ON SCIENTOMETRICS & INFORMETRICS ISSI2019

with a Special STI Indicators Conference Track

2-5 September 2019Sapienza University of Rome, Italy

PROCEEDINGS

VOLUME II



PROCEEDINGS OF THE 17TH CONFERENCE OF THE INTERNATIONAL SOCIETY FOR SCIENTOMETRICS AND INFORMETRICS

- © Authors. No part of this book may be reproduced in any form without the written permission of the authors.
- © International Society for Scientometrics and Informetrics
- © Edizioni Efesto ISBN 978-88-3381-118-5 August 2019 Printed in Italy

Editors: Giuseppe Catalano, Cinzia Daraio, Martina Gregori, Henk F. Moed and Giancarlo Ruocco

Graphic cover design: Francesco Manzo | graframan.com

Cover photo: ©Fayee - stock.adobe.com

INDEX OF PAPERS (FULL PAPERS AND RESEARCH IN PROGRESS)

Towards Machine Readable Academic Biographies: A Deep Learning Approach	1
University characteristics and probabilities for funding of proposals in the European Framework Programs	11
The Integrated Impact Indicator (I3) and the Journal Impact Factor:	23
Non-English language publications in Citation Indexes - quantity and quality	35
Elaborations on a cluster analytical approach to author bibliographic coupling analysis in the context of science mapping	47
The anatomy of retracted papers in the Web of Science, 1998-2017	59
New Wine in Old Bottles? Examining Institutional Hierarchy in Mobility Networks of Prestigious Awards Laureates, 1901-2017	65
The coverage of blogs and news in the three major altmetric data providers	75
Using a keyword extraction pipeline to understand concepts in future work sections of research papers	87
The ASEAN University Network Research Performance: A Meso-level Scientometric Assessment	99
The convergent validity of several (field-normalized) bibliometric indicators: How well does I3 perform for impact measurement?	12
Technology Opportunity Analysis of Internet of Things From the Perspective of 'Technology-Market'	25
A New Perspective of Multiple-level for Measuring & Mapping Technology Relatedness . 14 Chunjuan Luan*, Bowen Song and Alan L. Porter	40
International Collaboration in Africa: A scientometric analysis	51
Mean values of skew distributions in bibliometrics	50
Using Internet Data to Complement Traditional Innovation Indicators	57

What share of researchers publish monographs?	179
Cui Prodest? Reciprocity of collaboration measured by Russian Index of Science Citation Vladimir Pislyakov*, Olga Moskaleva, Mark Akoev	185
The impact of CSC Scholarships on scientific outputs and collaboration	196
Medical research versus medical needs in Africa Hugo Confraria*, Lili Wang	202
Comparing Coverage of Scopus, WoS, and OBRSS List: A Case for Institutional and National Databases of Research Output? **Lai Ma*, Liam Cleere**	214
The regional balance of knowledge flows	223
Can Altmetrics Supplement Citation Analysis for Funding Program Evaluation? Altmetric Analyses of National Cancer Institute (NCI) Extramural Divisions Holly Wolcott, Duane Williams, Melissa Antman, James Corrigan, Christine Burgess*	235
Research of Competition Pattern and Technology Development Trend based on Patentometricsa Case Study of AI-field	241
Can the Emergence of New Developments in the Techno-Sciences be Indicated as 'Hot Spots' in Journal Maps?	253
Allocation of non-competitive research funding to single researchers: preliminary analysis of the short-term effects Domenico Augusto Maisano*, Luca Mastrogiacomo, Fiorenzo Franceschini	259
Mapping the research on warfare and health, 1946-2017	271
Exploring the borders of a transregional knowledge network. The case of a French research federation in green chemistry	283
The correlation between the level of internationalization of a country's scientific production and that of relevant citing publications	295
Comparing institutional-level bibliometric indicator values based on different affiliation disambiguation systems. Benchmarking Web of Science and Scopus platform tools against a gold-standard data set for Germany	306
Measurement of research capacity using disciplinary agglomeration indicators: National university "rankings" in Japan	316
Retracted Research Articles from the RetractionWatch Data Base	322

Open Science Behavior of AI Industry: Collaboration Patterns and Topics from the Perspective of Cross-Institutional Authors	329
Globalization of Scientific Output: Country distribution of authors in the academic journals.	339
Vit Machacek*	
Predatory publications in Scopus: Evidence on cross-country differences	351
An Exploration on the Flow of Leading Research Talents in China: from the Perspective of Distinguished Young Scholars	363
Is Reference Publication Year Spectroscopy acceptable for Chinese Publications: Taking iMetrics Research in China as An Example	375
Open Peer Review: The Current Landscape and Emerging Models	387
Scientometric methods for Comparing on the Performance of Research Units in the Field of Quantum Information	399
The rivalry between Bernini and Borromini from a scientometric perspective	411
Research beyond scholarly communication - the big challenge of Scientometrics 2.0 Wolfgang Glanzel*, Pei-Shan Chi	424
Text-Mining Historical Sources to Trace Technical Change: The Case of Mass Production Frederique Bone* and Daniele Rotolo	437
Measuring the Impact of an Author of Multi-Authored Articles - Aggregating Metrics for Multiple Authors' Analysis	448
The impact of preprints in Library and Information Science: citations, usage, and social attention	459
Who acknowledges who? A gender analysis	471
Accuracy of Policy Document Mentions: the Role of Altmetrics Databases	477
University research diversification effect on its citation-based performance	489
Which are the influential publications in the Web of Science subject categories over a long period of time? CRExplorer software used for big-data analyses in bibliometrics Andreas Thor*, Lutz Bornmann, Robin Haunschild, Loet Leydesdorff	501

The influence of corresponding authorship on the impact of collaborative publications: a study on Brazilian institutions (2003-2015)	511
Designing healthy and sustainable food systems: how is research contributing?	523
Using ontologies to map between research and policy data: opportunities and challenges . Diana Maynard*, Benedetto Lepori, Philippe Laredo	535
Innovation policy and governance networks on national innovation systems	541
What makes some scientific findings more certain that others? A study of citing sentences for low-hedged papers	554
A multidimensional perspective on the citation impact of scientific publications	561
Higher Education's Role in Chinese National Innovation System: A Perspective of University-Industry Linkages	573
Impact Indicator on Measuring Multi-Dimension Technological Convergence	584
Scientific research collaboration in Artificial Intelligence: global trends and citations at the institution level Lipeng Fan*, Yuefen Wang, Shengchun Ding	596
Mobility of African doctoral graduates of South African universities - a tracer study Michael Kahn*, Thandi Gamedze, Joshua Oghenetega	608
Can Bradford's law be applied to determine core subject terms in a subject domain? Omwoyo Bosire Onyancha, Dennis N Ocholla*	619
NETSCITY: a geospatial application to analyse and map world scale production and collaboration data between cities Marion Maisonobe*, Laurent Jegou, Nikita Yakimovich, Guillaume Cabanac	631
Mapping Disciplinary Knowledge Flows Using Book Reviews	643
Collaboration size and citation impact in big data research	655
Examining the citation and altmetric advantage of bioRxiv preprints	667
The Dynamics of French publications in Social Sciences and Humanities: A European comparison	673
The spatial distribution of knowledge production in Europe. Evidence from KET and SGC	685
Benedetto Lepori*, Massimiliano Guerini, Thomas Scherngell, Philippe Laredo	

Hedonic Pricing and the Valuation of Open Access Journals	691
Making sense of global collaboration dynamics: Developing a methodological framework to study (dis)similarities between country disciplinary profiles and choice of collaboration partners Nicolas Robinson-Garcia, Richard Woolley*, Rodrigo Costas	703
Technological specialization of cities: a new patent-based approach and evidence from Russia	714
Categorization model of Spanish scientific journals in social sciences and humanities Daniela De Filippo*, Rafael Aleixandre-Benavent, Elias Sanz-Casado	726
Article Level Classification of Publications in Sociology: An Experimental Assessment of Supervised Machine Learning Approaches **Joshua Eykens**, Raf Guns, Tim C.E. Engels**	738
Exploring the impact of scholarly journals in social sciences and humanities upon patentable technology	744
Democracy, Globalization, and Science	756
Social media visibility of open access versus non-open access articles: A case study of Life Sciences & Biomedicine Tahereh Dehdarirad, Fereshteh Didegah*, Arezoo Didegah	762
Toward Predicting Proposal Success: An Update Caleb Smith*, Kevin W. Boyack, Richard Klavans	770
An exploration of the concept of complementarity over knowledge spaces in firm acquisitions Lu Huang*, Qiuju Zhou, Chang Wang, Jos Winnink, Ismael Rafols	782
Author-selected Keyword Semantic Function Analysis: A Case Study of Informetrics Zhifeng Liu*, Xin Li, Qikai Cheng, Wei Lu	792
Toward Better Growth Policies in a Modern Economy: The Comparison of Three Complexity Indices **Inga Ivanova**, Nataliya Smorodinskaya, Loet Leydesdorff	804
Determinants of technology-specific R&D collaboration networks: Evidence from a spatial interaction modelling perspective	814
Do national funding organizations address the diseases with the highest burden adequately? Observations from the UK and China	826
Discovering types of research performance of scientists with significant contributions Yu-Wei Chang*, Mu-Hsuan Huang	838
Bibliographically Coupled Patents: Their Temporal Pattern and Combined Relevance Chung-Huei Kuan*, Dar-Zen Chen	850

Studying the Scientific Mobility and International Collaboration Funded by the China Scholarship Council	861
Institutional research specializations identified by esteem factors and bibliometric	873
Detection of inappropriate types of authorship using bibliometric approaches	885
Impact of government intervention on publication activity: case of Russian universities Nataliya Matveeva, Ivan Sterligov, Maria Yudkevich*	896
Participation of 'international national organisations' in Africa's research: A bibliometric analysis of two research fields in Zimbabwe	908
Using altmetrics to study social movements and cognitive bridges in the communication of science in the social media: The case of the anti-vaccination movement on Twitter Francois Van Schalkwyk*, Jonathan Dudek and Rodrigo Costas	920
	932
Gender gap in intellectual property rights: a case with European Union trademarks Guillaume Roberge*, Matt Durning	944
Exploring the historical roots of Mesenchymal stem cell research using reference publication year spectroscopy	952
When peer reviewers go rogue - Estimated prevalence of citation manipulation by reviewers based on the citation patterns of 69,000 reviewers Jeroen Baas*, Catriona Fennell	963
Bibliometrics for collaboration works	975
Altmetrics Study of Economics	984
A Better Visualization for Mapping Science using Deep Learning	990
What affects the venture capital for start-ups: from the perspective of patent signal of Chinese bio-pharmaceutical	996
Are younger researchers more internationally oriented than their senior colleagues? 1 Kristoffer Rorstad*, Dag W Aksnes, Fredrik Piro	008
Does the Gini coefficient of a journal's citations increase over time?	014
A New Algorithm for Zero-Modified Models Applied to Citation Counts	020

Teams Prevent Misconduct: A Study of Retracted Articles from the Web of Science *Justus Rathmann*, Heiko Rauhut*	1032
A two-step approach toward subject prediction	1038
The subject structure of a university constructed by category co-membership of used journals and its potential application - A Case Study of Tongji University	1044
Persistent Problems for a Bibliometrics of Social Sciences and Humanities and How to Overcome Them	1056
Does collaborative research published in top journals remain uncited?	1068
Using a local database to uncover non-source items: the case of Science Education in Brazil using the Sucupira Platform. Eloisa Viggiani*, Luciana Calabro	1075
Which courses to follow? On the relationship between the mobility of China-connected scholars and their academic performance	1086
Comparison of classification-related differences in the distribution of journal articles across academic disciplines: the case of social sciences and humanities in Flanders and Norway (2006-2015)	1092
How Should We Measure Individual Researcher`s Performance Capacity Within and Between Universities? – Social Sciences as an Example? A Multilevel Extension of the Bibliometric Quotient (BQ)	1098
Comparing Breakthrough and Non-Breakthrough Papers from Early Citing Structures . Chao Min*, Yi Bu, Jianjun Sun	1110
Analysing technological specificities of industrial sectors using corporate patent profiles with a gravity center modelling	1116
Are Special Issues that Special? Distinctiveness and Impact of Special Issues in LIS Journals Maxime Sainte-Marie*, Philippe Mongeon, Vincent Lariviere	1122
The communication value of English-language academic journals published in non- native English countries: from a perspective of citation analysis	1128
Reflections on the Science of Team Science Yuxian Liu*, Ronald Rousseau, Yishan Wu	1138
A Framework to Measure the Impact of Science of a Research Organization	1146

Upgrading from 3G to 5G: Topic evolution and persistence among scientists	1156
Burst diffusion of highly retweeted scholarly articles in Social Media	1166
Scholarly Book Publishers and their Promotional Activity on Twitter	1178
Monetization Strategies of University Patents through PAEs: an Analysis of US Patent Transfers	1184
Global country-level patterns of Mendeley readership performance compared to citation performance: does Mendeley provide a different picture on the impact of scientific publications across countries? **Rodrigo Costas**, Zohreh Zahedi, Juan Pablo Alperin**	1195
Identifying communities of interest in social media: Microbiology as a case study Wenceslao Arroyo-Machado*, Daniel Torres-Salinas, Nicolas Robinson-Garcia	1201
Novelty as recombination of knowledge	1210
Who plagiarizes? The predictors of unauthorized borrowings in doctoral dissertations by Russian scholars Alexandra Makeeva*, Mikhail Sokolov, Anzhelika Tsivinskaya	1214
Data Citation and Reuse Practice in Biodiversity - Challenges of Adopting a Standard Citation Model	1220
A comparison of three individual multidisciplinarity indices based on the diversity of the Scopus subject areas, of the bibliography and of the citing papers	1226
Mapping an emerging research subject: case of microbiota concept	1232
Investigating altmetrics and citation data for working papers with different identifiers from Econstor and RePEc in the discipline of Economic and Business Studies	1244
Conceptualizing dimensions of bibliometric assessment: From resource allocation systems to evaluative landscapes	1256
HEIs participations and mobility in the European Framework Programmes	1262
From closed to open access: A case study of flipped journals	1270
	1276
David Campbell*, Brooke Struck Intermediacy of publications	1288

Quantifying the long-term influence of scientific publications Giovanni Colavizza*, Massimo Franceschet, Vincent A. Traag, Ludo Waltman	1301
Patent citations to scientific papers as early signs for predicting delayed recognition of scientific discoveries: a comparative study with instant recognition	1307
Synchronous scientific mobility and international collaboration: case of Russia	1319
A Deep-Learning Approach to Determine the Dependency between Two Subject Types in the Web of Science Frederick Kin Hing Phoa*, Hsin-Yi Lai, Livia Lin-Hsuan Chang, Keisuke Honda	1329
Persistence of journal hierarchy in open access publishing	1339
Analysis of Division of Labor in High Quality Life Science Research of China	1346
A Multi-Dimensional Observation Framework of Retracted Publications	1358
Studying the embeddedness of researchers' careers: Can bibliometric methods help? $Grit\ Laudel^*$	1368
Community Detection Using Citation Relations and Textual Similarities in a Large Set of PubMed Publications Per Ahlgren*, Yunwei Chen, Cristian Colliander, Nees Jan van Eck	1380
Robustness of journal classifications in SSH: an empirical analysis from Italy	1392
Should I move to diversify my scientific network? A panel analysis of chemists' careers Marine Bernard*, Bastien Bernela, Marie Ferru, Beatrice Milard	1403
Indicators of Open Access for universities	1415
Research on the relationship between citation and altmetrics of Open Access Papers from different geographical regions	1424
Characterizing the Potential of Being Emerging Generic Technologies: A Bi-Layer Network Analytics-based Prediction Method	1436
Crowdsourcing open citations with CROCI - An analysis of the current status of open citations, and a proposal	1448
Merits and Limits: Applying open data to monitor open access publications in bibliometric databases	1455
Google Search results as an altmetrics data source? Kim Holmberg*, Timothy Bowman	1462

Patents 1980-2017 Lin Zhang, Yujie Peng, Wenjing Zhao, Lixin Chen, Ying Huang*	1468
	1480
Quantifying the research preferences of top research universities: why they make a difference? Barbara S. Lancho-Barrantes*, Francisco J. Cantu-Ortiz	1488
Measurement variation in bibliometric impact indicators Stephan Stahlschmidt*, Marion Schmidt	1500
Changing publication practices: the case of Social Sciences and Humanities	1507
Measuring changes in country scientific profiles: the inertia issue	1519
Highly cited references in PLOS ONE and their in-text usage over time	1531
A bibliometric perspective on the roles of government funding and international collaboration in scientific research Ping Zhou*, Xiaojing Cai, Wenjing Xiong, Xiaozan Lyu	1537
Author name disambiguation of bibliometric data: A comparison of several unsupervised approaches	1548
Research performance measurement of universities in the R-Quest countries under various OA mandates Thed van Leeuwen*, Jesper Schneider	1560
Using Pat2Vec Model to Discover the Technology Structure	1570
Public Policy and the Evolution of Technology Transfer in France	1576
The Diffusion of Zebrafish in Latin American Biomedical Research. A Study of Internationalisation Based on Bibliometric Dynamic Network Data	1588
The use of Gold Open Access in four European countries: An analysis at the level of articles Gunnar Sivertsen*, Raf Guns, Emanuel Kulczycki, Janne Polonen	1600
Evolution of Topics and Novelty in Science Omar Ballester*, Orion Penner	1606
Professional Standards in Bibliometric Research Evaluation? Results from a Content Analysis of Evaluation Studies in Europe Arlette Jappe*, Thomas Heinze	1612
Enhancing knowledge of Research Organizations: An analysis of their current classification, collaboration schemes and research impact	1624

Per subject category and subject categories per journal	1630
3D printing as a research domain: mapping the main areas of knowledge	1641
Mapping the translational process of Her-2 studies with the pioneer's publication Yuxian Liu, Ewelina Biskup, Yueqian Wang, Fengfeng Cai, Xiaoyan Zhang*	1652
Decreasing the noise of scientific citations in patents to measure knowledge flow Fangfang Wei, Guijie Zhang*, Lin Zhang, Yikai Liang, Jianben Wu	1662
Models of parenting and its effect on academic productivity: Preliminary results from an international survey	1670
Identifying Research Fronts in a Fine-grained Way: A Case Study in the Field of Artificial Intelligence Bentao Zou*, Yuefen Wang, Jiajun Cao	1677
Man-woman collaboration behaviors and scientific visibility: does gender affect the academic impact in economics and management? Abdelghani Maddi*, Vincent Lariviere, Yves Gingras	1687
Varying resonance chambers: A comparison of citation-based valuations of duplicated publications in Web of Science and Scopus	1698
Detecting Key Topics Shifts in Thermal Barrier Coatings (TBC) as Indicators of Technological Advancements for Aerospace Engines Michael Khor*, Ligen Yu	1710
Has the 2008 Global Financial Crisis a lasting impact on universities and public research institutes in the European Union?	1722
Social media attention of the ESI highly cited papers: An Altmetrics-based overview Jose A. Moral-Munoz*, Alejandro Salazar, David Lucena-Anton, Pablo Garcia-Sanchez, Manuel J. Cobo	1734
Industry involvement in biomedical research: authorship, research funding and conflicts of interest Belen Alvarez-Bornstein*, Maria Bordons	1746
International Register of Academic Book Publishers (IRAP): overview, current state and future challenges Elea Gimenez-Toledo, Gunnar Sivertsen, Jorge Manana-Rodriguez*	1752
Open access journals and the adherence of the elite of Brazilian researchers	1759
Evaluation Framework for Promoting Gender Equality in Research and Innovation How to define suitable indicators to evaluate gender equality effects in R&I systems? Susanne Buehrer*, Evanthia Kalpazidu Schmidt, Sybille Reidl, Rachel Palmen and Dora Groo	1770

Open access challenge at national level: comprehensive analysis of publication channels used by Finnish researchers in 2016-2017	1776
Knowledge Utilization and Open Science Policies: Noble aims that ensure quality research or Ordering discoveries like a pizza? **Julia Heuritsch**	1788
Text Mining to Measure Novelty and Diffusion of Technological Innovation	1798
Can the impact of grey literature be assessed? An investigation of UK government publications cited by articles and books	1801
Exploring the development of science-based nanotechnology	1813
How well do we evaluate evaluation? An overview of Science, Technology and Innovation Policy Evaluation in Latin America	1825
Impact of the journals, disciplines, and countries on the citation memory	1832
Exploring Barriers to Interdisciplinary Research Daniele Rotolo*, Michael Hopkins	1838
Have you read this? An empirical comparison of the British REF peer review and the Italian VQR bibliometric algorithm	1847
The Maturity of Scientific Research Problems: A Method to Identify the Subsequent Influence of New Published Papers	1859
Disciplinary Variations in Altmetric Coverage of Scholarly Articles	1870
How international is internationally collaborated research? Heritage composition of Russia's international collaboration network	1882
Gender, age, and broader impact: A study of persons, not just authors	1888
Assessing the Impact of a Highly-Cited Paper	1894
Paragraph-based intra- and inter- document similarity using neural vector paragraph embeddings	1900
Performance Model's development: A Novel Approach encompassing Ontology-Based Data Access and Visual Analytics Marco Angelini*, Cinzia Daraio, Maurizio Lenzerini, Francesco Leotta, Giuseppe Santucci	1912

Bibliographic Reference List Mistakes: The Case of Turkish Librarianship	1924
Mapping the Life Science using Medical Subject Headings (MeSH)	1927
How to interpret algorithmically constructed topical structures of research specialties? A case study comparing an internal and an external mapping of the topical structure of invasion biology Matthias Held and Theresa Velden*	1933
Context matters: how the usage and semantics of hedging terms differs between sections of scientific papers	1940
Global Talent, Local Interactions - Scholars mobility and its impact on the knowledge producers' workforce of European regions	1946
Does Monetary Support Increase Citation Impact of Scholarly Papers?	1952
Telling the Early Story of Solar Energy Meteorology by Applying (Co-Citation) Reference Publication Year Spectroscopy	1964
Structure of Litigation Relationship Network among Dental Companies and Patent Portfolio Strategy -A Social Network Analysis	1975
Editorial practices and systematic conscious bias on Wikipedia: An initial test with articles on Traditional Chinese Medicine Dangzhi Zhao*, Andreas Strotmann	1985
Bias in Academic Recruitment: the Italian National Scientific Habilitation	1991
Augmenting a Research Information System with automatically acquired category and keyword information	2002
The social sciences and their publishers: Publication, reception and changing meaning of German monographs	2014
Sorting out Guidelines for the Good Evaluation of Research Practices	2020
The effects of research policies on the management of research information in HEIs: evidence from Germany	2031
DataCite as a Potential Source for Open Data Indicators	2037
Admitting uncertainty: a weighted socio-epistemic network approach to cognitive distance between authors	2043

of Research Quality VQR 2011-2014	2053
Recognition through performance and reputation	2065
Towards a multidimensional classification of social media users around science on Twitter Adrian A. Diaz-Faes*, Nicolas Robinson-Garcia, Tim D. Bowman, Rodrigo Costas	2070
Publication trajectory discontinuity - is there gender difference?	2076
Prediction of Microblogging Influence and Measuring of Topical Influence in the Context of Terrorist Events	2082
Making it personal: Examining personalization patterns of single-authored papers Gita Ghiasi*, Maxime Sainte-Marie, Vincent Lariviere	2088
Characterizing the Heterogeneity of European Higher Education Institutions Combining Cluster and Efficiency Analyses *Renato Bruni, Giuseppe Catalano, Cinzia Daraio, Martina Gregori*, Henk Moed	2094
When Quantity Beats Quality in the Evaluation of Academic Work: An Eastern European Impact Factor?	2106
Scholarly communication or public communication of science? Assessing who engage with climate research on Twitter	2115
Variations in citation practices across the scientific landscape: Analysis based on a large full-text corpus	2121
Open data to evaluate academic researchers: an experiment with the Italian Scientific Habilitation Angelo Di Iorio, Silvio Peroni, Francesco Poggi*	2133
Identification of technologically relevant papers based on their references	2145
Evaluating Human Versus Machine Learning Performance in Classifying Research Abstracts Khiam Aik Khor, Giovanni Ko*, Walter Theseira, Xin Qing Cai, Yeow Chong Goh	2157
Convergence between rejection citations and X/Y citations across patent offices Tetsuo Wada*	2163
Using machine learning and text mining to classify fuzzy social science phenomenon: the case of social innovation	2171

Non-Traditional Indicators for the Evaluation of SBIR-like Programs: Evidence from Brazil	2177
Sergio Salles-Filho*, Bruno Fischer, Camila Zeitoum, Paulo Henrique Feitosa, Fernando Colugnati	
Eponymy and Delayed Recognition: the case of Otto Warburg Nobel Prize	2183
Mapping scientific issues and controversies on Twitter: a method for investigation conversations mentioning research David Gunnarsson Lorentzen*, Johan Eklund, Bjorn Ekstrom, Gustaf Nelhans	2189
Internationally mobile scientists as knowledge transmitters - A lexical-based approach to detect knowledge transfer	2199
Evaluating the evaluators: when academic citizenship fails	2209
The transition cycle measurement to estimate how science impels innovation: A publication-citation analysis of biotech patents	2215
MESH classification of clinical guidelines using conceptual embeddings of references Johan Eklund*, David Gunnarsson Lorentzen, Gustaf Nelhans	2222
Dependence modeling of bibliometric indicators with copulas	2228
Performance of Research Teams: results from 107 European groups	2240
Are migrant inventors more productive than native ones? Julien Seaux*, Stefano Breschi, Francesco Lissoni, Andrea Vezzulli	2252
Altmetrics - on the way to the "economy of attention"? Feasibility study Altmetrics for the German Ministry of Science and Research (BMBF)	2262
The corporate identity of Italian Universities on the Web: a webometrics approach Gianpiero Bianchi, Renato Bruni, Antonio Laureti Palma, Giulio Perani*, Francesco Scalfati	2273
The Impact of Research Funding Agencies on the Research Performance of five European Countries - A Funding Acknowledgements Analysis	2279
The role of geographic proximity on citation preferences: the case of Artificial Intelligence	2288
Investigating scientific collaboration through the sequence of authors in the publication bylines and the diversity of collaborators	2300
How a Single Paper Affects the Impact Factor: Implications for Scholarly Publishing Manolis Antonoyiannakis*	2306

Matching Education and Scientific Specialization of European Universities: a Micro-based Country Level Analysis Giuseppe Catalano, Cinzia Daraio, Giammarco Quaglia*	2314
Coping with Altmetrics' Heterogeneity - A Survey on Social Media Platforms' Usage Purposes and Target Groups for Researchers Steffen Lemke*, Isabella Peters	2320
The P-model: An indicator that accounts for field adjusted production as well as field normalized citation impact	2326
Inventor Turnover and Knowledge Transfer: The Case of Wind Power Industry	2332
Why Sociologists Should Not Bother with Theory: The Effect of Topic on Citations \ldots $Radim\ Hladik^*$	2341
Understanding Multiple References Citation	2347
Large-scale comparison of bibliographic data sources: Web of Science, Scopus, Dimensions, and Crossref	2358
Measuring disagreement in science Dakota Murray, Wout Lamers*, Kevin Boyack, Vincent Larivière, Cassidy Sugimoto, Nees Jan van Eck, Ludo Waltman	2370
An empirical analysis on the relationship between publications and academic genealogy Rogerio Mugnaini*, Rafael J. P. Damaceno, Jesus P. Mena-Chalco	2376
The career of postdocs in Norway	2387
Disciplines at the crossroads: scientific re-orientation of economics and chemistry after the German reunification	2393
Constructing vision-driven indicators to enhance better interaction of science and society	2405
The Citations of Papers with Conflicting Reviews and Confident Reviewers	2411
Method for comparison of the number of citations from papers in different databases Gerson Pech*, Catarina Delgado	2418
Demographic Differences in the Publication Output of U.S. Doctorate Recipients Wan-Ying Chang*, Karen White, Cassidy Sugimoto	2430
Why Citations Don't Mean What We Think They Mean: Evidence from Citers	2440
The impact of air transport availability on research collaboration	2442
International Postdoctoral Mobility and Career Effect in Italian Academia - 1986-2015 Massimiliano Coda Zabetta, Aldo Geuna*	2448

Citing Alike, Writing Alike: Comparing Discourse – and Bibliographic Coupling – Based Science Maps	2460
Bradford Demarest*, Cassidy R. Sugimoto, Vincent Lariviere	
INDEX OF POSTERS	
Does the PageRank method improve the citations count? Abdelghani Maddi*, Damien Besancenot	2466
A glance on the status of Library and Information Science discipline in the world ranking systems of universities	2468
Implementation of Altmetrics in Central Library of Islamic Azad University, Science and Research Branch of Tehran Amir Reza Asnafi*, Firoozeh Dookhani	2471
Gathering Web Data on European Companies' R&I Performance	2473
Does environmental economics lead to patentable research?	2475
A New Perspective of Evaluating Journals Impact:Altmetrics and Citation Indicators Rongying Zhao, Xu Wang*, Zhaoyang Zhang, Yongkang Qi, Ruru Chang	2477
Topic Evolution and Emerging Topic Analysis Based on Open Source Softwares	2479
Library and Information Science papers discussed on Twitter: a new network-based approach for measuring public attention	2481
Unsupervised Keyphrase Extraction in Academic Publications Using Human Attention <i>Yingyi Zhang*</i> , Chengzhi Zhang	2483
Applying the Author Affiliation Index to Rank Chinese Library and Information Science Journals	2485
Using Citation Contexts to Evaluate Impact of Books	2487
Insight Into Research Hot Topics and Research Groups of Sustainable Urbanization Danni Liang*, Lili Wang, Bowen Song	2489
Historical bibliometrics using Google Scholar: the case of Roman law, 1727-2016 Janne Polonen*, Bjorn Hammarfelt	2491
Identification of Milestone Papers in Physics via Reference Publication Year Spectroscopy	2493
Yu Liao, Zhesi Shen*, Liying Yang	
Topic Map Analysis of Deep Learning Patents	2495

Are corresponding authors reflecting collaboration degree in interdisciplinary program such as Cancer Bioinformatics?	2497
Exploring the Lotka's Phenomenon in Sense Complexity of English Word	2499
International collaboration in the field of artificial intelligence: global trends and networks at the country and institution levels	2501
Visualizing gender representation by field of research at institutions in the United Kingdom Helene Draux, Simon Porter, Ricarda Beck, Suze Kundu, Stacy Konkiel*	2503
Changing dynamics in an emerging field: Tracking authorship developments in the journal 'Political Psychology' 1985-2015	2505
Measuring the scientific publications of top universities from Mainland China	2507
A holistic and bibliometric view on autonomous driving for the time period 2000 to 2017	2510
Tuning national performance-based science policy: introducing fractional count	2512
A preliminary scientometric analysis of the Cross-Strait scientific collaboration	2514
Analysis of the relationships between academic research fields based on co-occurrence of journal categories	2516
A Study on the Multidimensional Scientometric Indicators to Detect the Emerging Topics	2518
Characterization of URLs in scientific documents: the profile of the journal Information Science	2520
Role of structural determinants in the development of universities	2522
New Measures of Journal Impact Based on Citation Network	2524
Link Prediction of Knowledge Diffusion in Disciplinary Citation Networks based on Local Information	2526

Dynamic Assessment of the Academic Influence of Scientific Literature from the Perspective of Altmetrics	2528
Drawing the Conceptual Structure of Corporate Entrepreneurship using Co-Word Analysis	2530
Current Status and Enhancement of Collaborative Research with ASEAN Countries: A Case Study of Osaka University	2532
Shino Iwami*, Toshihiko Shimizu, Melvin John F. Empizo, Jacque Lynn F. Gabayno, Nobuhiko Sarukura, Shota Fujii, Yoshinari Sumimura	
Accreditation of graduate courses in Brazil: analysing the evaluation of the first proposals of professional doctorates in the country	2534
Reframing the Absorptive Capacity's Mediating Effects on R&D Investment: Organizational Barrier and Quadruple-Helix Collaboration	2543
Co-occurrence of Cell Lines, Basal Media and Supplementation in the Biomedical Research Literature Jessica Cox*, Darin McBeath, Corey Harper, Ron Daniel	2545
Article similarity distributions as an indicator of journal scope	2547
Behaviors and relationships among global universities on Twitter	2549
Can Crossref Citations Replace Web of Science for Research Evaluation? The Share of Open Citations	2551
How Research Milestone Shape the Technology of Today - A Case Study of Highly Cited Researcher using Topic Model	2553
Priorities for Social and Humanities Projects Based on Text Analysis	2555
Why do researchers from Economics and Social Sciences cite online? Insights from an exploratory survey	2557
The Comparison of Effectiveness between Direct and Indirect Support through the Meta-analysis: The Case of Korean R&D Policy for SMEs	2559
Exploring Knowledge production in Europe. The KNOWMAK tool	2561
Investigating the Knowledge Spillover and Externality of Technology Standards	2563

Towards a multidimensional valuation model of scientists	2565
Spanish scientific research in Psychology: an analysis of the differences in the production and scientific collaboration	2567
Co-citation in business translation research at Spanish centres: identifying topical similarities	2569
The Character of the Tenure Track Professor Recruits at Aalto University	2571
The development of a new instrument to measure research agendas	2573
A bibliometric analysis of the #MeToo movement in South Korea	2574
Study on open science: the general state of the play in Open Science principles and practices at European life sciences institutes	2576
Research evaluation and scientific productivity at the University of Calabar, Calabar, Nigeria: A bibliometric analysis	2578
The Role of Research Collaborations for Academic Performance in Italy: An Empirical Analysis of Scopus Data Luigi Aldieri, Gennaro Guida, Maxim Kotsemir*, Concetto Paolo Vinci	2580
The impacts of network mechanisms on scholars' perceptions and behaviours in research community	2582
A Scientometric Analysis of the R&D Trends and National Research Activities in Organoid	2584
Science at the Vatican Ronald Rousseau*	2586
recerTIC UPC: a new approach to a bibliometric analysis for a research university Ruben Pocull Prous*, Miquel Codina Vila, Ruth inigo Robles, Sara Matheu Martinez del Campo, Andres Perez Galvez, Javier Clavero Campos	2588
Scientific collaboration among institutes of chemical engineering in Taiwan during the decline of research manpower	2590
Construction of Knowledge Map by Co-Citation Analysis: A Case Study on the Topic of Information Behavior	2592
Improve the Reliability of Short Term Citation Impact Indicators by Taking into Account the Correlation between Short and Long Term Citation Impact	2594

An Analysis of the Relative Citation Ratio in NIH-Funded Articles	2596
Two indicators rule them all: Mean and standard deviation used to calculate other journal indicators based on lognormal distribution of citation counts	2598
Understanding Roles of Collaborators from Their Byline Orders and Affiliations	2600
Citation2vec: A New Method for Citation Recommendation Based on Semantic Representation of Citation Context Jinzhu Zhang*, Yue Wang, Duanwu Yan, Jingjie Liu, Wenqian Yu	2602
Representation of Libraries in Funding Acknowledgments	2604
How does author ethnic diversity affect scientific impact? A study of nanoscience and nanotechnology	2606
Improving RA-index by Using the Weighting Mechanism Number of Citations to Filter "Spike" Signal of the Citation Data of Indonesian Authors	2608
Research on the Development Trend of Ships Diesel Engine Based on Patentometrics Rongying Zhao, Danyang Li*, Xinlai Li	2610
Idea Diffusion Patterns: SNA on Knowledge Meme Cascade Network	2612
Article-level matching of Web of Science to a local database in a comparative context <i>Linda Sile, Raf Guns*</i>	2614
Public Administration and Social Media: An analysis of the journal literature	2616
Developing a rule-based method for identifying researchers on Twitter: The case of vaccine discussions	2618
Research on Identification and Selection on Key Fields of Science and Technology Hui Wang*, Xiaowei Yang	2620
Bibliometric differences between funding and non-funding papers on substance abuse scientific research Juan Carlos Valderrama-Zurian, Lourdes Castello-Cogollos, David Melero-Fuentes, Rafael Aleixandre-Benavent, Francisco Jesus Bueno-Canigral*	2622
Observatory for the Scientific Evaluation of Catholic Universities in Spain, Latin America and the Caribbean	2624
Towards Leiden Manifesto version 2.0	2626
Technology Foresight Study of Human Phenomics	2628

Analysis of disaster-related research trend in South Korea using topic modeling Yucheong Chon*, Geonwook Hwang	2630
One research field, multiple subjects integrated: Subfield differences and correlations in "computer science, artificial intelligence" in WoS	2632
Development of a user-friendly app for exploring and analyzing research topics in psychology Andre Bittermann*	2634
Enriching Bibliographic Data by Combining String Matching and the Wikidata Knowledge Graph to Improve the Measurement of International Research Collaboration	2636
How Grant Reviewers Evaluate Impact Statements: Two Cases from Science Foundation Ireland (SFI)	2638
The Prospect of Chemistry Research in India Swapan Deoghuria*, Gayatri Paul	2640
Scientometric Implosion of Armenian Journals	2642
Detection of disruptive technologies by automated identification of weak signals in technology development	2644
Measuring the societal impact of scientific work in the process of re-accreditation of higher education institutions and public scientific institutes in the Republic of Croatia . <i>Marina Grubisic</i> *	2646
Can Anti-Cocitations Also Measure Author Relatedness?	2648
How open are journal articles with open access topic? **Carey Ming-Li Chen**, Wen-Yau Cathy Lin**	2650
Shepard's Citations Revisited - Citation Metrics for Dutch Legal Information Retrieval . Gineke Wiggers*, Wout Lamers	2652
Consistency Comparison of Four Typical Data Set Construction Methods for Domain Analysis in Bibliometrics Yu Shao*, Guo Chen	2654
Exploring the teaching activities of the Italian universities through conditional efficiency analysis	2656
RISIS2: an innovative research infrastructure as a support for STI research community . Emanuela Reale, Grazia Battiato, Serena Fabrizio*	2658
e-Lattes: A new framework in R language for analysis of the Lattes curriculum	2660

Application	2662
A Closer Look at Data Co-authorship: Trends in Team Size in 'Big Science'	2664
A study of open access APC in Taiwan	2666
Readership of International Publications as Measured by Mendeley Altmetrics: A Comparison Between China and USA Houqiang Yu, Xueting Cao*, Biegzat Murat	2668
Characterizing High-Quality Answers for Different Question Types on Academic Social Q&A Site Lei Li*, Daqing He, Chengzhi Zhang	2670
Assessing citation network clustering as indicator normalization tool	2672
Detection of Future Trends of Artificial Intelligence by Keyword Mapping in WoS and SCOPUS	2674
On the Latent Shape of ICT research	2676
Debunking the Italian Scientific Sectors' classification system: preliminary insights Giuseppe Bianchi*, Chiara Carusi	2678
Science, technology and innovation indicators to support research management: the case of Oswaldo Cruz Foundation (Fiocruz)	2680
Global overview of patenting landscape in unmanned aerial vehicles	2682
National Research Council's Bibliometric Methodology and Subfields of a Scientific Discipline Lawrence Smolinsky*, Aaron Lercher	2684
Sleeping Beauties in Mathematical Research	2686
Research leadership flows and the role of proximity in scientific collaborations	2688
When gender doesn't matter: the relationship between university's presidencies and their research performance	2690
Comparison of Social Science Papers and Books Based on Citation and Altmetric Indicators Siluo Yang, Yonghao Yu*	2692
Analysis of SSH impact based on Citations and Altmetrics	2694

Exploring Linguistic Characteristics of Highly Browsed and Downloaded Academic Articles	2696
From Macro to Micro: A Bibliometric-based Evaluation of Pioneering and Leading of Scientific and Technological Achievements - Taking the Novel Fermions in Solids	
as an Example	2698
Importance of research network analysis for early-career scientists	2700
Finding More Methodological Entities from Academic Articles via Iterative Strategy: A Preliminary Study	2702
Exploring the Effects of Data Set Choice on Measuring International Research Collaboration: an Example Using the ACM Digital Library and Microsoft Academic Graph	2704
Ba Xuan Nguyen*, Markus Luczak-Roesch, Jesse David Dinneen	
The role of the integrated impact indicator (I3) in evaluating the institutions within a university	2706
Research on Influence of Dataset Scale on Domain Analysis in Bibliometrics	2708
Author's Name Recognition in Academic Full Text Based on BERT	2710
Research on Functional Structure Identification of Academic Text Based on Deep Learning	2712
A Longitudinal Study of Questionable Journals in Scopus Jinseo Park*, Jinhyuk Yun, June Young Lee	2714
Impact of National Research Assessment Exercises on Monographs and Scholarly Books authored by the Lithuanian Researchers Eleonora Dagiene*, Andrius Krisciunas, Gintare Tautkeviciene, Saulius Maskeliunas	2716
Interdisciplinary Research Based on Paper-level Classifications of Science- A Preliminary Case Study of Chinese Journals Bikun Chen, Mengxia Cheng*, Peiyao Li, Yuefen Wang	2718
Determining Citation Blocks using End-to-end Neural Coreference Resolution Model for Citation Context Analysis	2720
Evidence-based Nomenclature and Taxonomy of Research Impact Indicators	2722
Does patentometrics represent valid patents? Huei-Ru Dong* Mu-Hsuan Huang	2724

Investigating Citation of Algorithm in Full-text of Academic Articles: A Preliminary Study	2726
Ding*, Wang, Zhang	,
Mental health research in the countries of the Organisation of Islamic Cooperation (OIC), 2008-17	2728
Identifying research areas for intensification of intraBRICS collaboration	2730
Model Entity Extraction in Academic Full Text Based on Deep Learning	2732
Social media and library metrics and indicators: how can we measure impact on performance? Francisco-Javier Calzada-Prado*, Carmen Jorge-Garcia-Reyes	2734
What kind of papers in the collection of highly cited papers can obtain higher social influence? Jiang Wu, Xiao Huang*	2736
Assessing Promotion of Research Results in Media: Examples from Siberian Institutes Denis Kosyakov*, Inna Yudina, Zoya Vakhrameeva	2738
Analyzing and Extracting Data Resource Entity in Full-text Papers	2740
Research on Software Entity Extraction and Analysis Based on Deep Learning	2742
Identifying and evaluating strategic partners for collaborative innovation: One method based on topic analysis of papers and patents	2744
Online Attention of Scholarly Papers on Psychosocial Hazards - Job Stress, Bullying and Burnout	2746
Morphological Features of Academic Books and Their Citation Counts	2748
Linking individual-level to community-level thematic change: How do individual research trails match disjoint clusters of direct citation networks?	2750
Comparing The Evolution of Research Subjects in Computer Science and Library & Information Science - A case Study with NEViewer	2752
Drug Safety scientometrics overview highlights public health issues	2754
A Cleaning Method for various DOI Errors of Cited References in Web of Science Shuo Xu*, Liyuan Hao, Xin An	2756
A new approach to funding acknowledgement field: can be used for identify gender gap in research funding?	2758

International references increase Chinese papers' citation impact	2760
Multi-affiliations in scientific collaboration between G7 and BRICS countries	2762
Semi-automatic taxonomy development for research data collections: the case of wind energy	2764
European Tertiary Education Register (ETER): Evolution of the Data Quality Approach Cinzia Daraio, Renato Bruni, Giuseppe Catalano, Giorgio Matteucci, Alessandro Daraio, Monica Scannapieco, Daniel Wagner-Schuster*, Benedetto Lepori	2766
The State of Open Access in Germany: An Analysis of the Publication Output of German Universities	2768
Unveiling the path towards sustainability: is there a research interest on sustainable goals?	2770
A Study on Grasp of Research Trend based on Abstract Analysis: Using the Theses of X-ray Exploration Satellite "SUZAKU"	2772
Can Twitter hashtags be used for field delineation? The case of Sustainable Development Goals (SDGs)	2774
Using Full-text of Academic Articles to Find Software Clusters Heng Zhang*, Shutian Ma, Chengzhi Zhang	2776
Specialized User Attention on Twitter: Identifying Scientific Fields of Interest among Social Users of Science	2778
Assessing algorithmic paper level classifications of research areas: exploring existing human labeled datasets. **Alexis-Michel Mugabushaka**	2780
Financial Market Forecasting using Online Information: Research Stream Analysis based on Citation Network Chaoqun Wang, Zhongyi Hu*, Raymond Chiong and Ke Dong	2782
The compound F2-index as extension of the f2-index in a dynamic perspective: An	2784