Publishing scientific research in journals, conference proceedings, books

Aliaksandr Birukou

Senior Editor

A little about me…

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PhD in Computer Science
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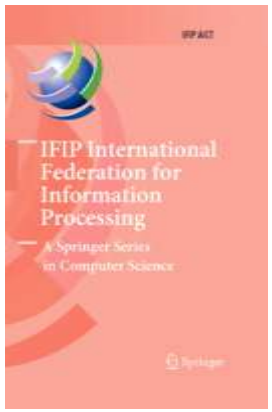
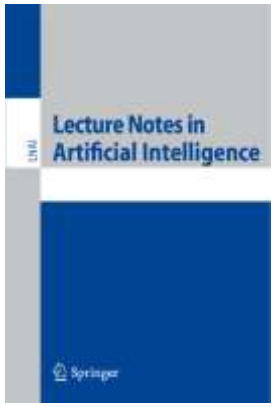
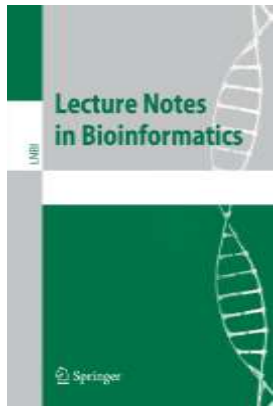
With a focus on publishing Conference Proceedings
Supervise the following series:







Outline

- Who is Springer
- Publishing landscape
  - Publishing principles
  - Publications from Russia – international perspective
  - Open Access
- How to publish in journals
- All about conference proceedings
- All about books
- Springer tools for authors

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Key facts about Springer

• Leading global scientific publisher, founded in 1842 and providing researchers in academia, scientific institutions and corporate R&D departments with quality content via innovative information products and services

• Consolidated turnover in 2013: EUR 943 million; 2012: EUR 981 million

• Some 2,200 English-language journals and more than 8,400 books published every year, in 5 main publishing fields: science, technology, medicine, business, transport

• Springer eBook collection with more than 160,000 titles available at link.springer.com. Springer is THE largest scientific e-book publisher

• SpringerLink, one of the leading Internet science portals, including 8.5 million documents (5.1 Mln journal articles, 3.0 Mln book chapters, 377K SpringerReference entries, 35K SpringerProtocols)

•Largest open access portfolio worldwide, with over 420 open access journals. Open Access books are included

• 21.6% of all Nobel Prize winners are Springer authors (ALL winners of 2011 NP in medicine, physics, chemistry and economics) are Springer authors and editors

Today Springer is present in some 25 countries worldwide (7000 employees)

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Publishing Principles

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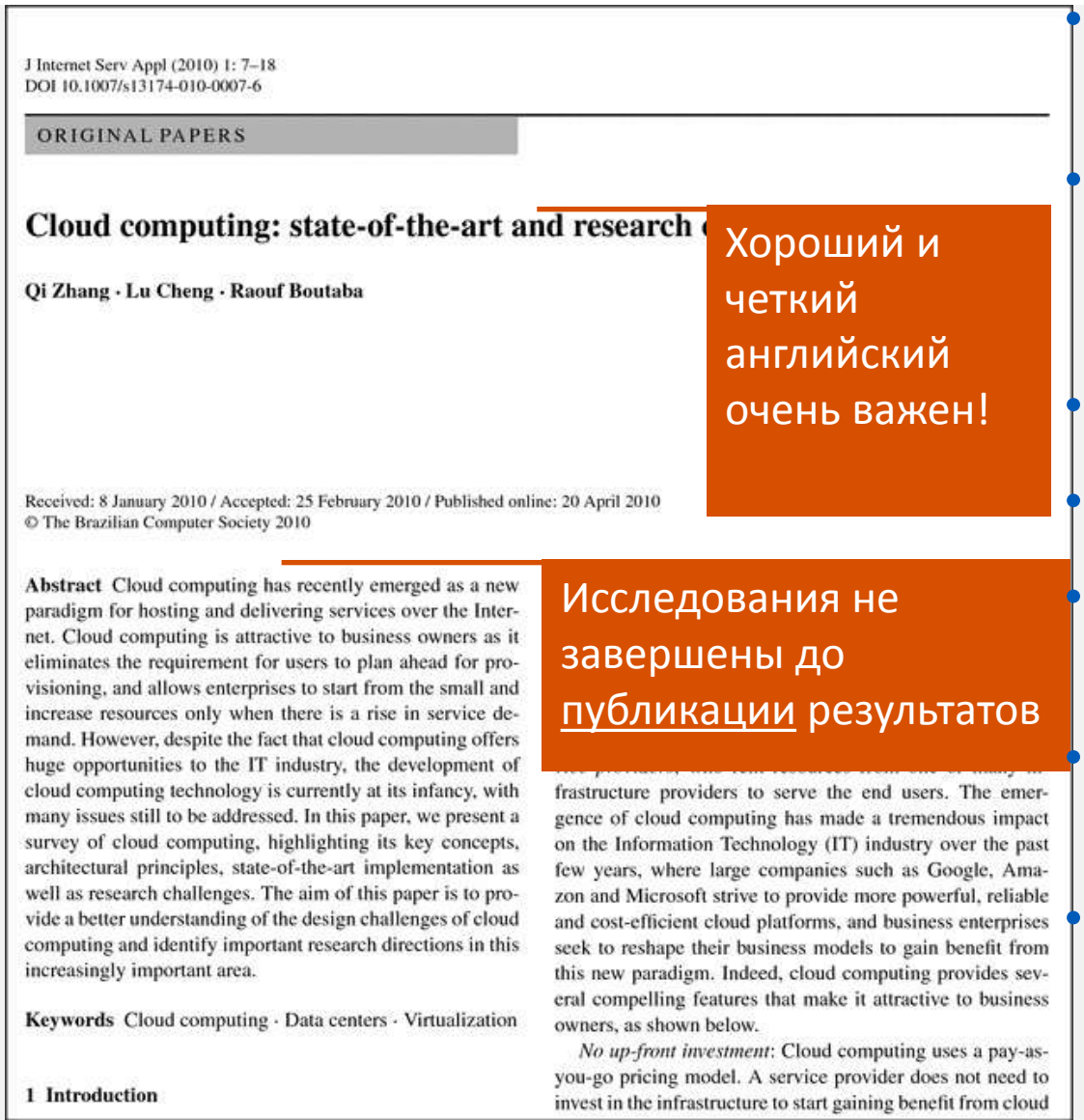
Why publish? To exchange ideas globally



J Internet Serv Appl (2010) 1: 7–18
DOI 10.1007/s13174-010-0007-6

ORIGINAL PAPERS

Cloud computing: state-of-the-art and research

Qi Zhang · Lu Cheng · Raouf Boutaba

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Abstract Cloud computing has recently emerged as a new paradigm for hosting and delivering services over the Internet. Cloud computing is attractive to business owners as it eliminates the requirement for users to plan ahead for provisioning, and allows enterprises to start from the small and increase resources only when there is a rise in service demand. However, despite the fact that cloud computing offers huge opportunities to the IT industry, the development of cloud computing technology is currently at its infancy, with many issues still to be addressed. In this paper, we present a survey of cloud computing, highlighting its key concepts, architectural principles, state-of-the-art implementation as well as research challenges. The aim of this paper is to provide a better understanding of the design challenges of cloud computing and identify important research directions in this increasingly important area.

Keywords Cloud computing · Data centers · Virtualization

1 Introduction

frastructure providers to serve the end users. The emergence of cloud computing has made a tremendous impact on the Information Technology (IT) industry over the past few years, where large companies such as Google, Amazon and Microsoft strive to provide more powerful, reliable and cost-efficient cloud platforms, and business enterprises seek to reshape their business models to gain benefit from this new paradigm. Indeed, cloud computing provides several compelling features that make it attractive to business owners, as shown below.

No up-front investment: Cloud computing uses a pay-as-you-go pricing model. A service provider does not need to invest in the infrastructure to start gaining benefit from cloud

Хороший и четкий английский очень важен!

Исследования не завершены до публикации результатов

- Present new and original results or methods
- Advance (not repeat) scientific knowledge and enhance scientific progress
- Credibility of results
- Grant writing, research funding
- Recognition and career advancement
- Personal prestige, satisfaction and enjoyment
- Your obligation/duty as a scientist!

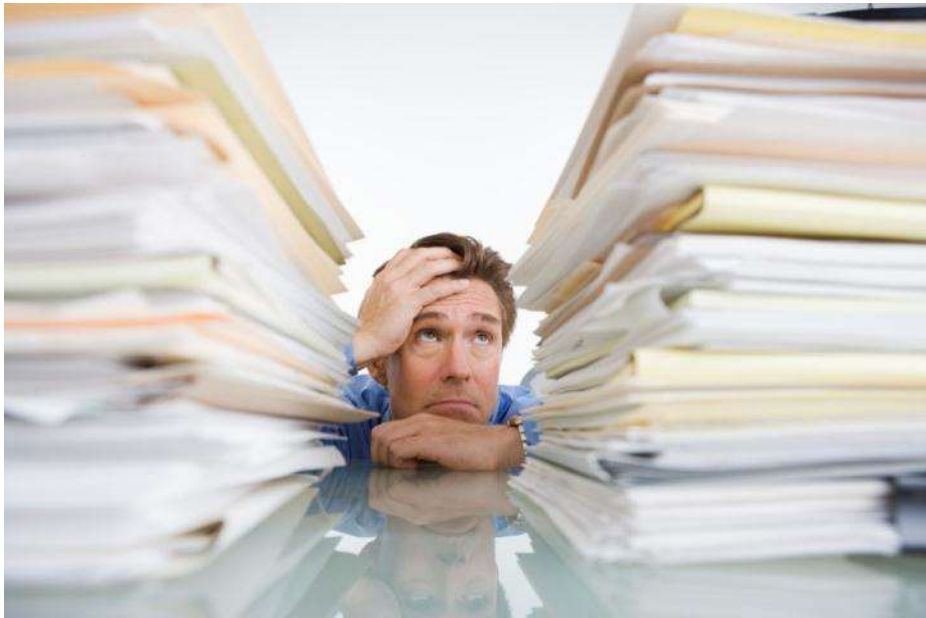
Why publish in English?

- The international language of science
- Other scientists **WANT** to hear from you!
- Allows you to become an effective science communicator
- To know about progress in your area

Why not just blog about your work?

Scientific publishing ensures:

- Quality control
- Professional publishing services (e.g. Abstracting & Indexing)
- Innovative publishing technology (POD/PTO, XML)
- Global marketing, global visibility



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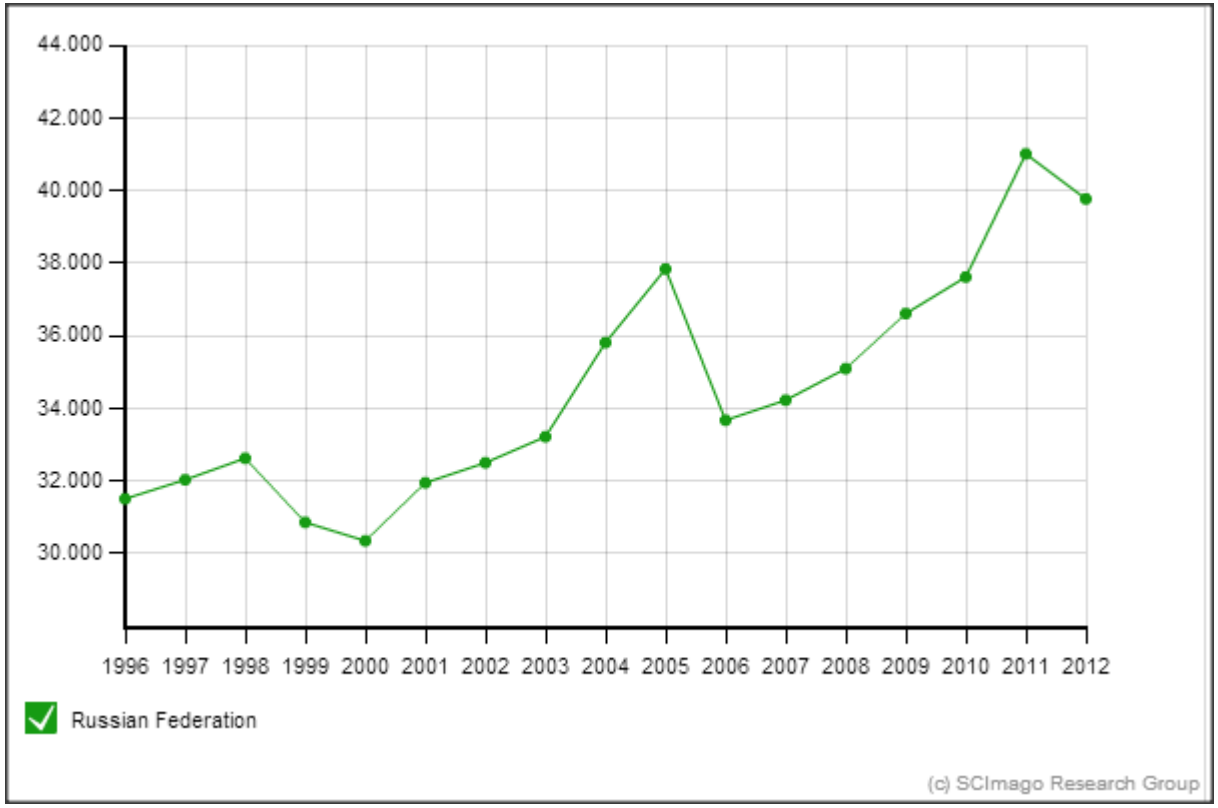
Publishing in Russia – international perspective

What is the status of scholarly publications in Russia?

- Research output (num citable documents per year) is growing in Russia



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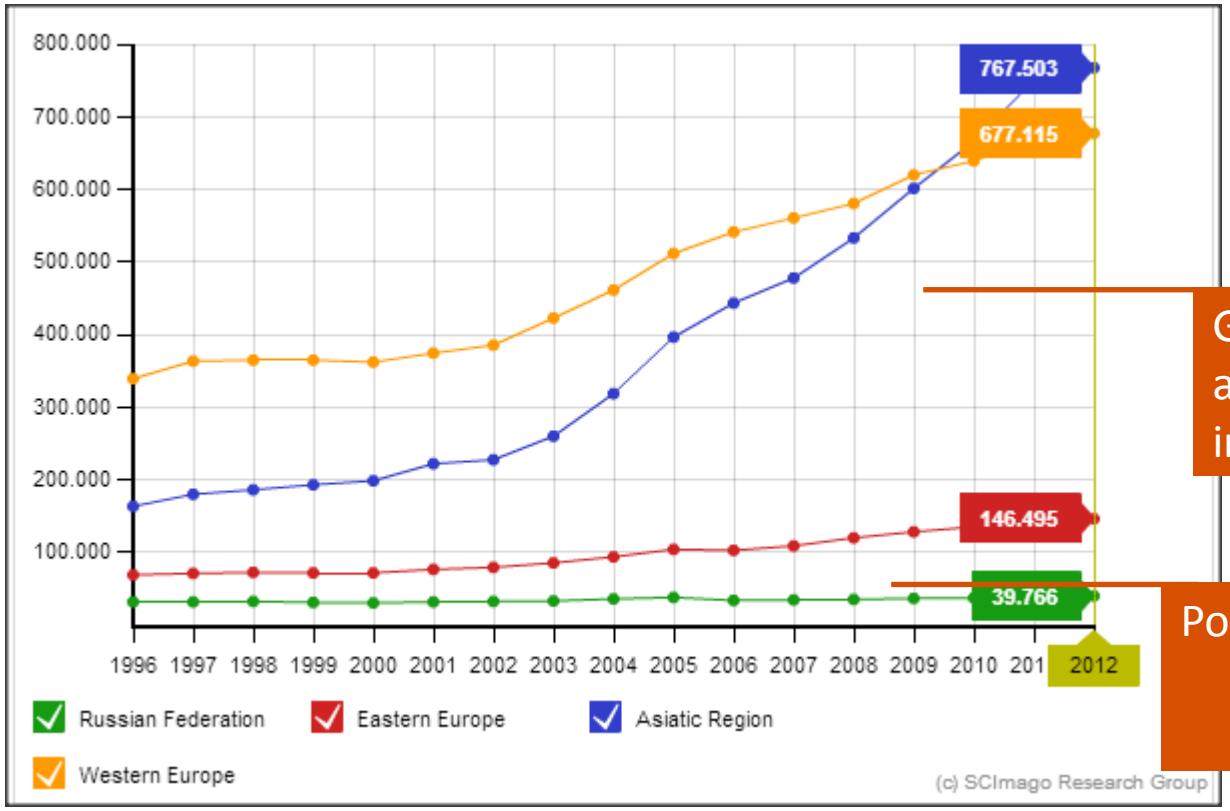
What is the status of scholarly publications in Russia?

- Comparing with **neighboring regions**; the output and growth rate of research output in Russia is lagging behind (number of citable documents per year)



Gap between Eastern and Western Europe is increasing?

Рост?? публикаций

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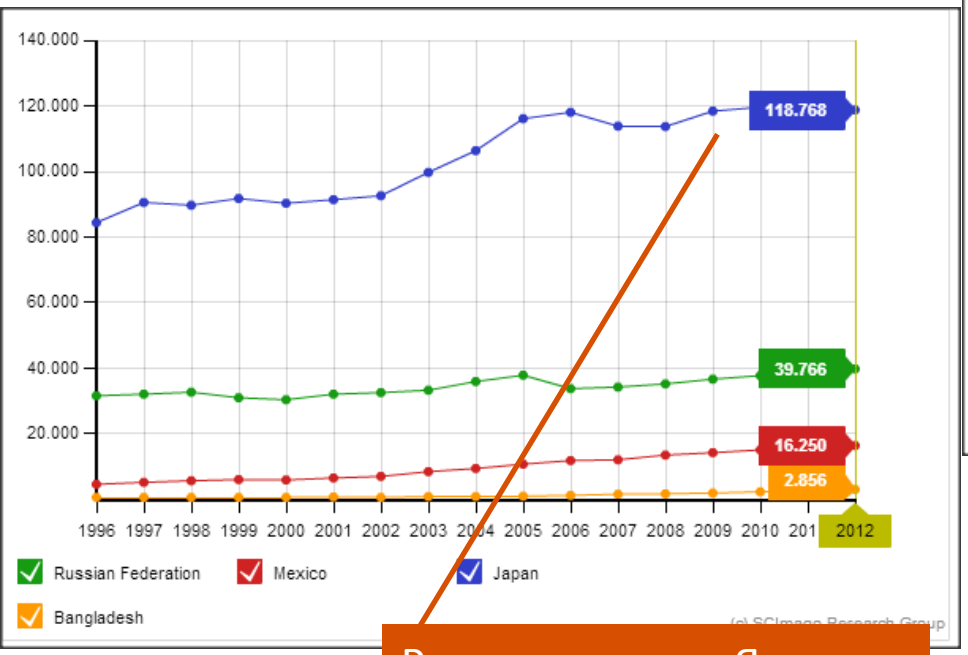
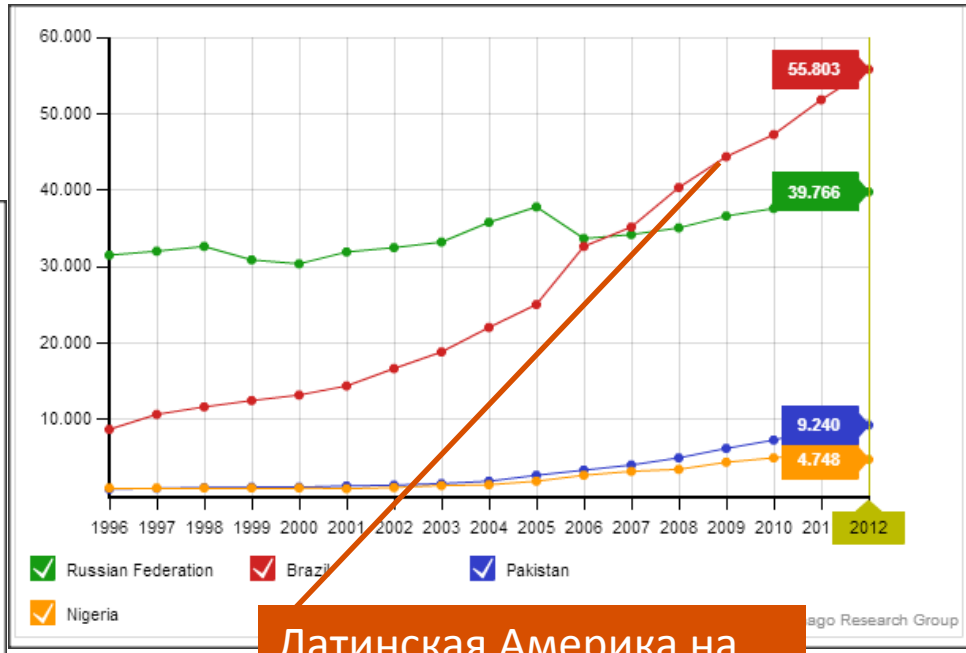
What is the status of scholarly publications in Russia?

- Comparing countries with similar **population size**; the output and growth rate of research output in Russia(number of citable documents per year):

  there is room for improvement!





Россия уступает Японии почти в три раза!

Латинская Америка на подъеме

5	Brazil	201,032,714
6	Pakistan	184,342,000
7	Nigeria	173,615,000
8	Bangladesh	152,518,015
9	Russia	143,500,000
10	Japan	127,270,000
11	Mexico	118,395,054

Source:
http://www.scimagojr.com
http://wikipedia.org

Publications from Russia in Springer

What is the status of scholarly publications in Russia?

- On www.authormapper.com we can see the number and type of publications in Springer coming from Russia

PUBLICATION (see all 5682)

Bulletin of the Academy of Sciences of the USSR Division of Chemical Science	20882
Bulletin of Experimental Biology and Medicine	11911
Soviet Physics Journal	8553
Chemistry of Heterocyclic Compounds	8408
Nuclei with Z = 55 - 100	7756

SUBJECT (see all 1084)

Chemistry	124044
Physics	115431
Chemistry/Food Science, general	42239
Mathematics	31830
Physics, general	30760

NSTITUTION (see all 111923)

Russian Academy of Sciences	98330
Academy of Sciences of the USSR	21412
Moscow State University	20467
Petersburg Nuclear Physics Institute	14578
St. Petersburg State University	5891

KEYWORDS

nucleon separation energy
nucleon residual interaction
parameter mass excess
Q-value atomic mass
nuclear binding energy
excitation energy half-life parity
atomic number ground state energy levels
excited states nuclear states atomic weight

Soroko, Z.N. (12803)
Sukhoruchkin, S.I. (12803)
Sukhoruchkin, S. I. (1266)
Soroko, Z. N. (1265)
Voronkov, M. G. (904)
Tolstikov, G. A. (763)
Arbuzov, B. A. (675)
Struchkov, Yu. T. (589)
Trofimov, B. A. (566)
Nesmeyanov, A. N. (513)
Kabachnik, M. I. (489)
Petrovskii, P. V. (482)
Zakharkin, L. I. (467)
Knunyants, I. L. (455)
Nefedov, O. M. (393)
Minachev, Kh. M. (373)
Ivanov, A. V. (360)
Beletskaya, I. P. (352)
Dzhemilev, U. M. (346)
Kucherov, V. F. (343)

Source:
http://www.authormapper.com

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What is the status of scholarly publications in Russia?

SUBJECT (see all 265)

Computer Science	5029
Artificial Intelligence (incl. Robotics)	1545
Algorithm Analysis and Problem Complexity	1394
Computer Science, general	1032
Software Engineering/Programming and Operating Systems	956

KEYWORDS

pattern recognition
optimization classification
image processing
machine learning data mining
neural networks ontology
35A30 simulation verification
segmentation 35Q53 clustering
58F07

PUBLICATION (see all 959)

Pattern Recognition and Image Analysis	556
Programming and Computer Software	506
Acta Applicandae Mathematicae	258
Parallel Computing Technologies	210
Optical Memory and Neural Networks	182

INSTITUTION (see all 4089)

Russian Academy of Sciences	825
Moscow State University	435
St. Petersburg State University	114
Joint Institute for Nuclear Research	110
Lomonosov Moscow State University	102

Kuznetsov, Sergei O. (36)
Abramov, S. A. (34)
Smirnov, Alexander (30)
Anshakov, Oleg M. (29)
Gergely, Tamás (29)
Shen, Alexander (24)
Ahsanullah, Mohammad (22)
Hirsch, Edward A. (22)
Nevzorov, Valery (22)
Rostovtsev, V. A. (22)
Shakil, Mohammad (22)
Yevtushenko, Nina (22)
Gerdt, V. P. (21)
Gurevich, I. B. (20)
Choo, Hyunseung (19)
Nepomniaschy, V. A. (18)
Bandman, Olga (17)
Levashova, Tatiana (17)
El-Fakih, Khaled (16)
Kotenko, Igor (16)

Top 24 scientists with Russian affiliation publishing in Comp. Science

Source: http://www.authormapper.com

Countries in the affiliation of Springer CS Authors

1. United States (94354)
2. Germany (57143)
3. China (48115)
4. United Kingdom (39139)
5. France (33747)
6. Japan (25322)
7. Italy (24646)
8. Spain (22316)
9. Canada (19205)
10. South Korea (18623)
11. Australia (15011)
12. India (11810)

13. Poland (10090)
14. Switzerland (9452)
15. Netherlands (9069)
16. Austria (8358)
17. Belgium (7506)
18. Brazil (7047)
19. Israel (6973)
20. Sweden (6698)

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The Present

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Open Access

What is Open Access?

Open Access removes price barriers

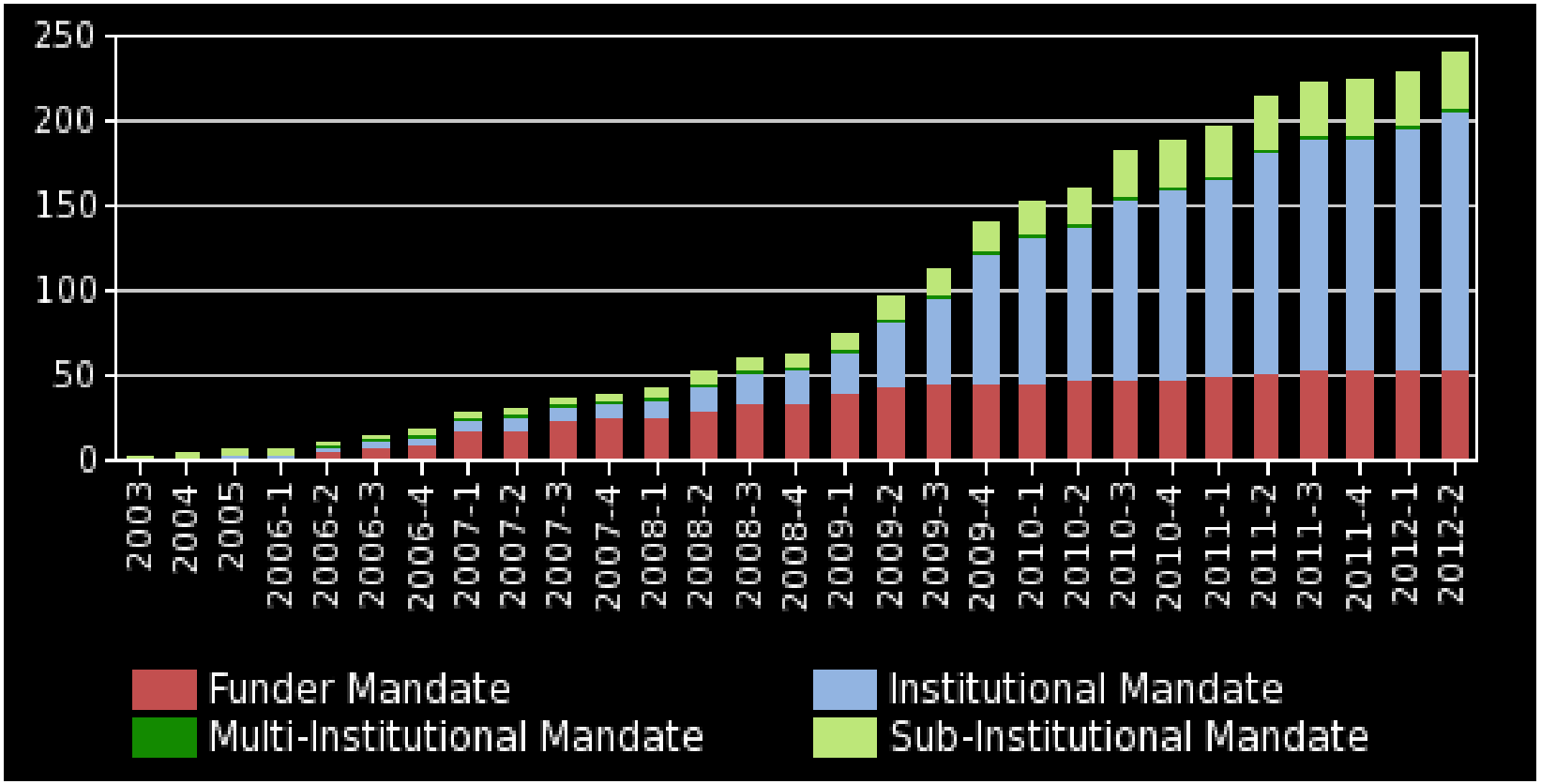
Open Access removes permission barriers

Open Access publishing is digital, online, free of charge and free of most copyright and licensing restrictions*

*Peter Suber
http://www.earlham.edu/~peters/fos/overview.htm

Open access to research output is becoming mandatory

Open access mandates



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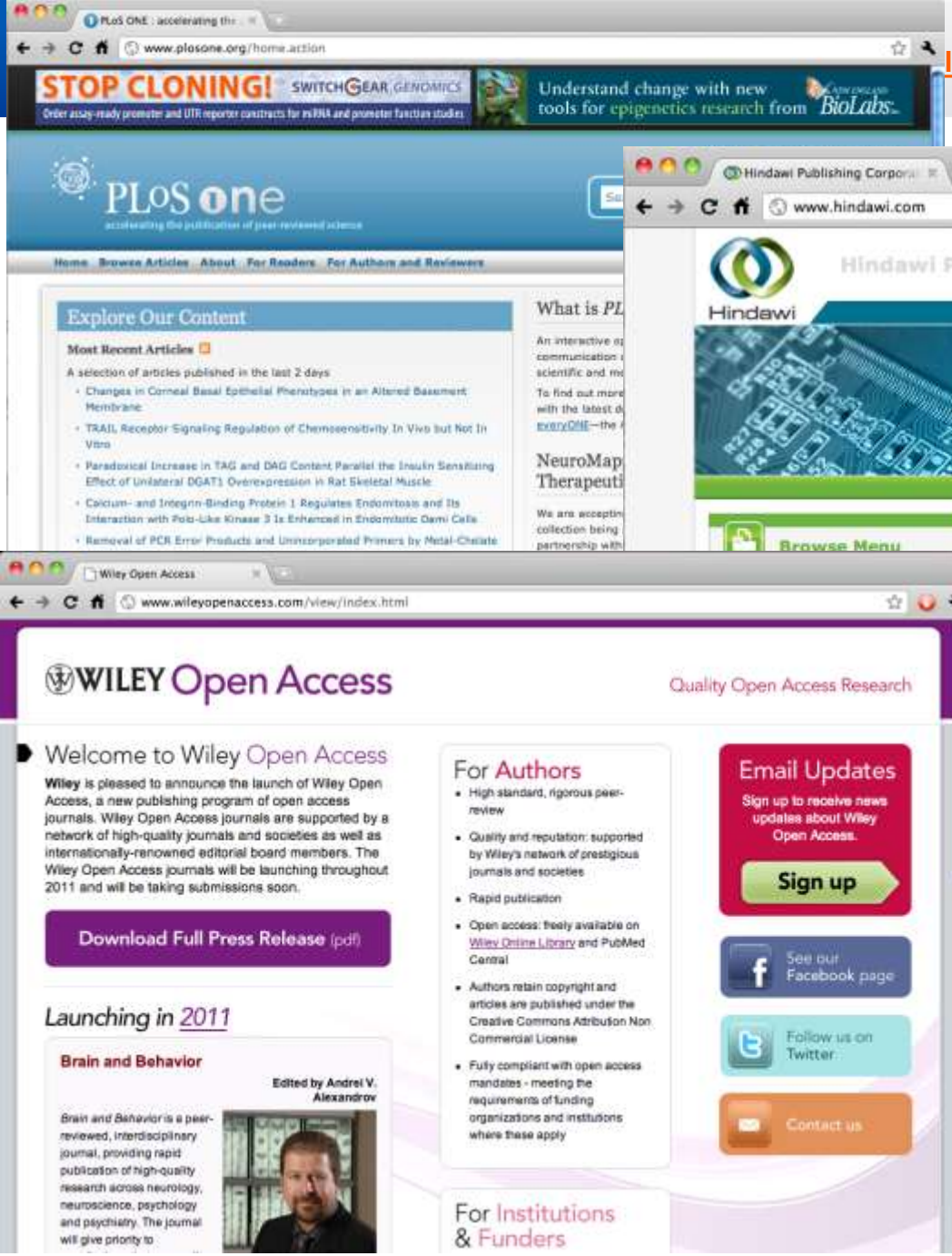
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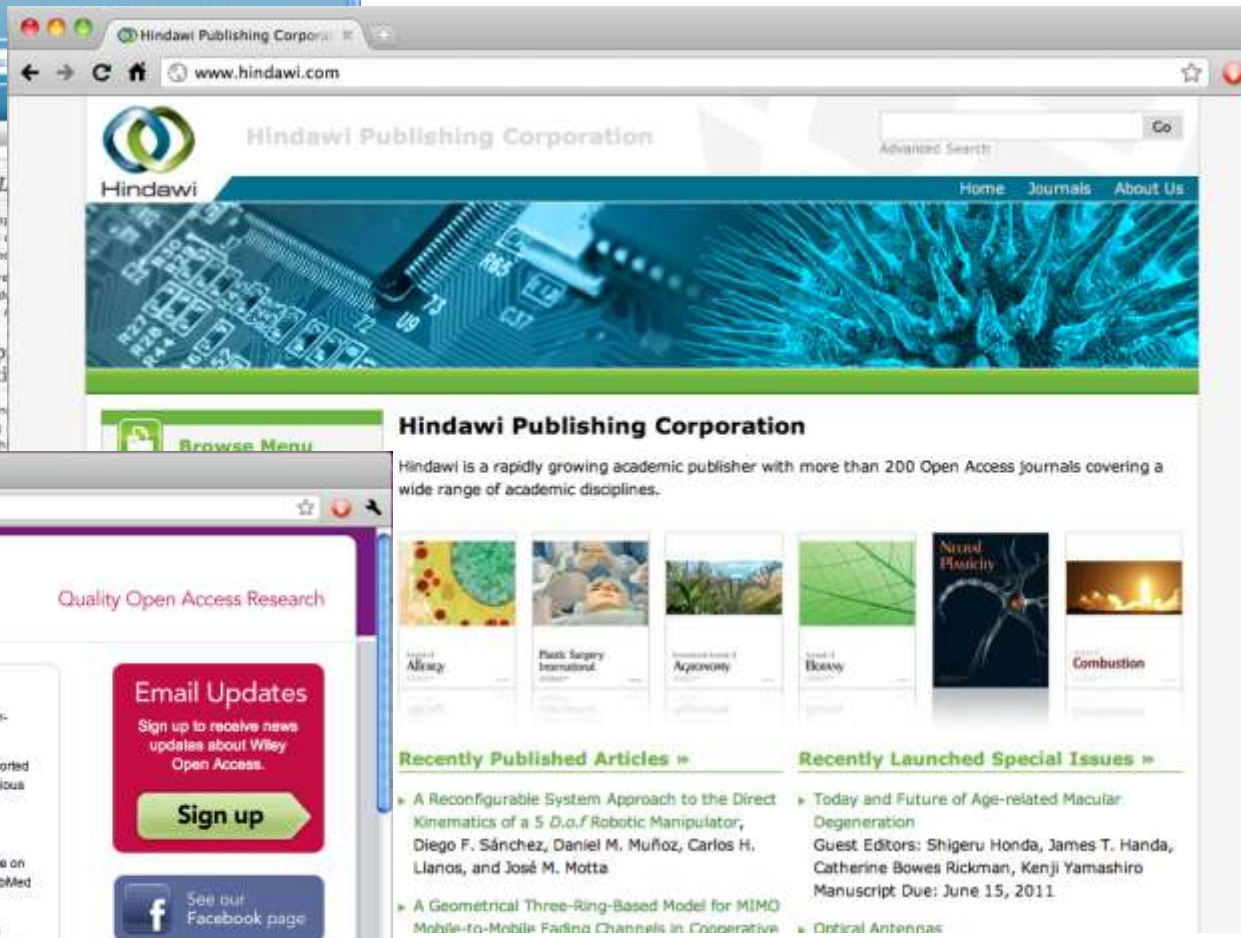
Calcium- and Integrin-Binding Protein 1 Regulates Endomitosis and Its Interaction with Polo-Like Kinase 3 Is Enhanced in Endomitotic Dami Cells
Removal of PCR Error Products and Unincorporated Primers by Metal-Chelate
What is PL
NeuroMap
Therapeuti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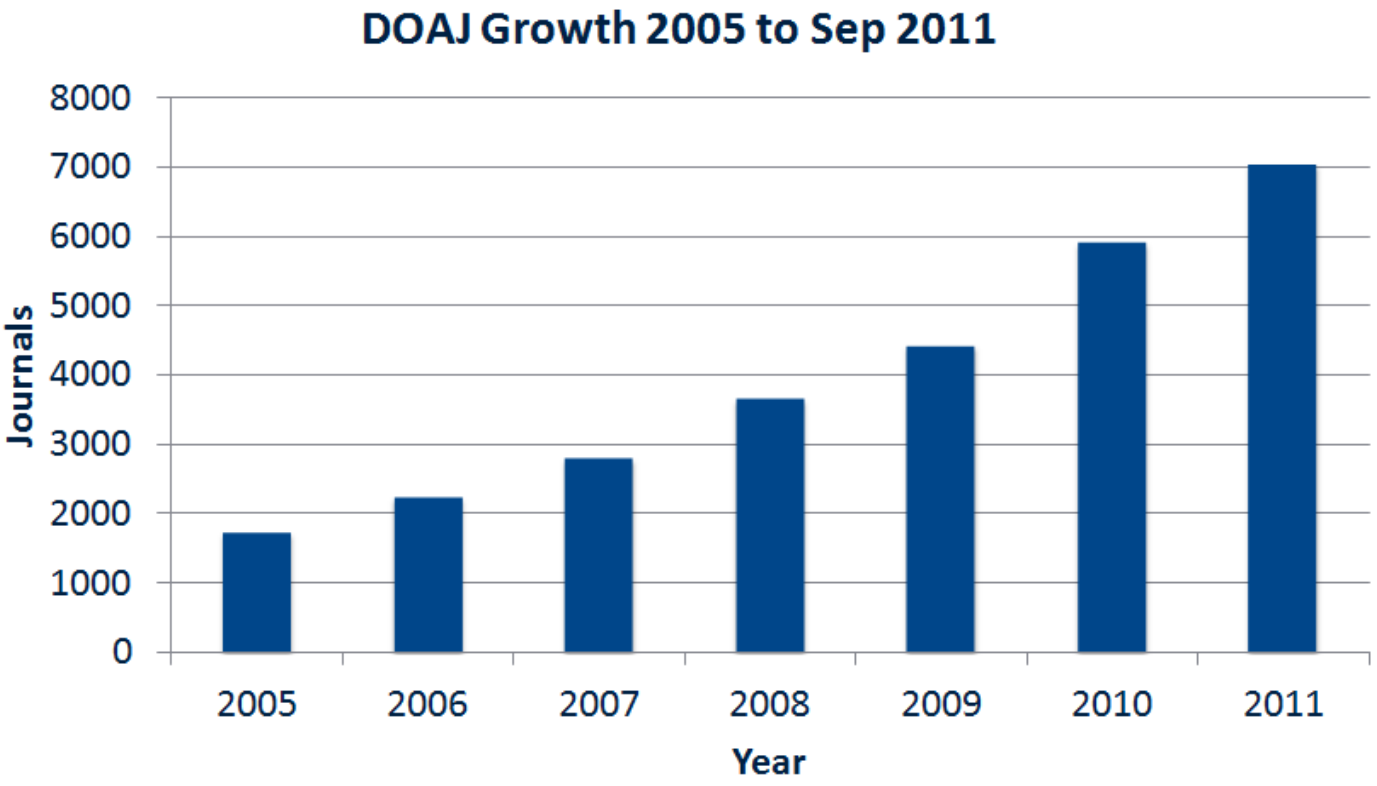
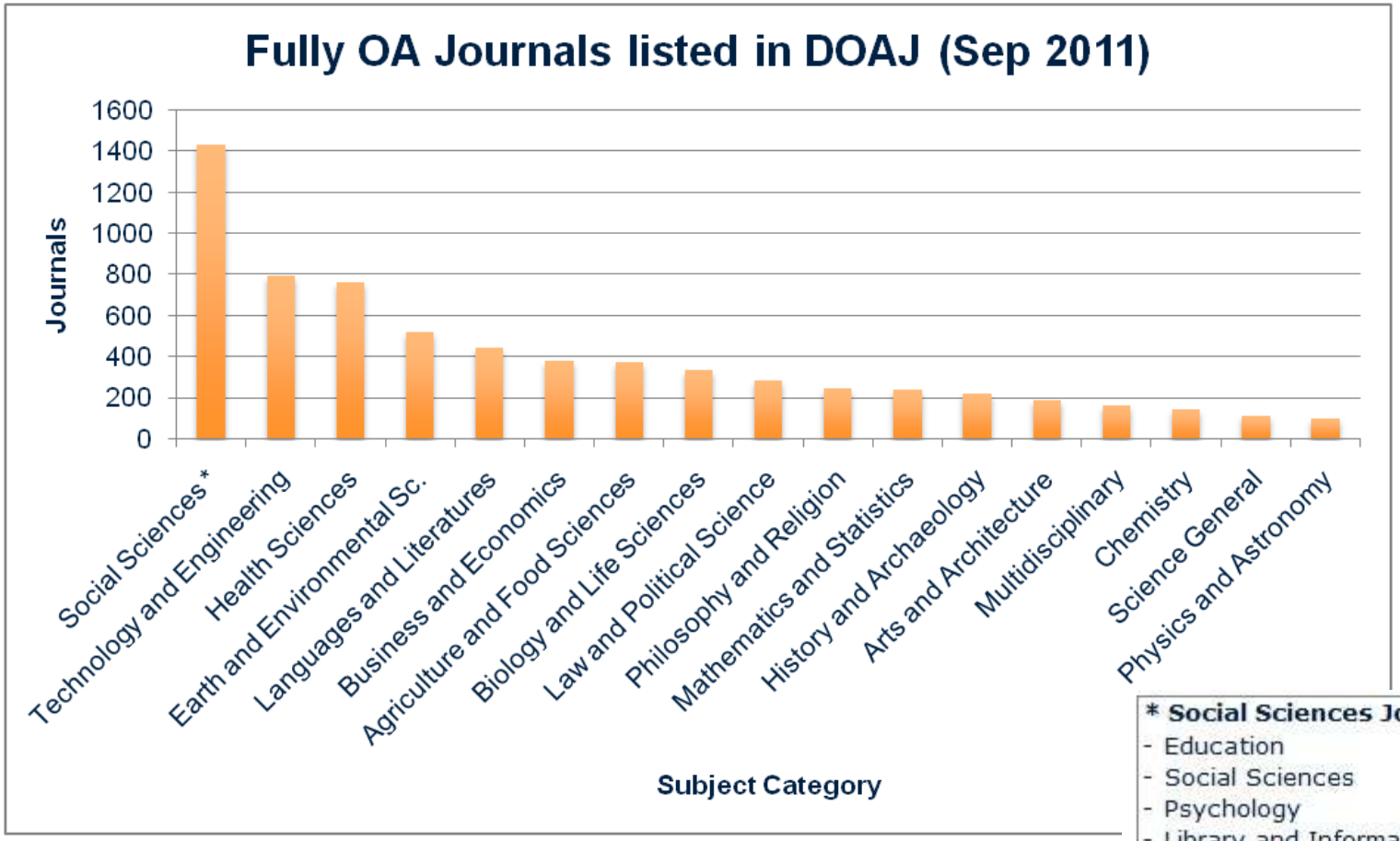
Fully open access journals (1)



Source: http://www.doaj.org/

Fully open access journals (2)



* Social Sciences Journals	
- Education	485
- Social Sciences	272
- Psychology	151
- Library and Information Sc.	123
- Sociology	122
...	

Source: http://www.doaj.org/

Springer's Open Access Platforms

BioMed Central
The Open Access Publisher

260+ Journals

SpringerOpen

160+ Journals

Any Journal

Springer

Journals

Springer's role in the journal value chain

300,000+ article submissions per year

100,000 reviewers

4.8 million articles now available

6,000 editors and 50,000 editorial board members

130 million downloads from 10,000+ institutions per year

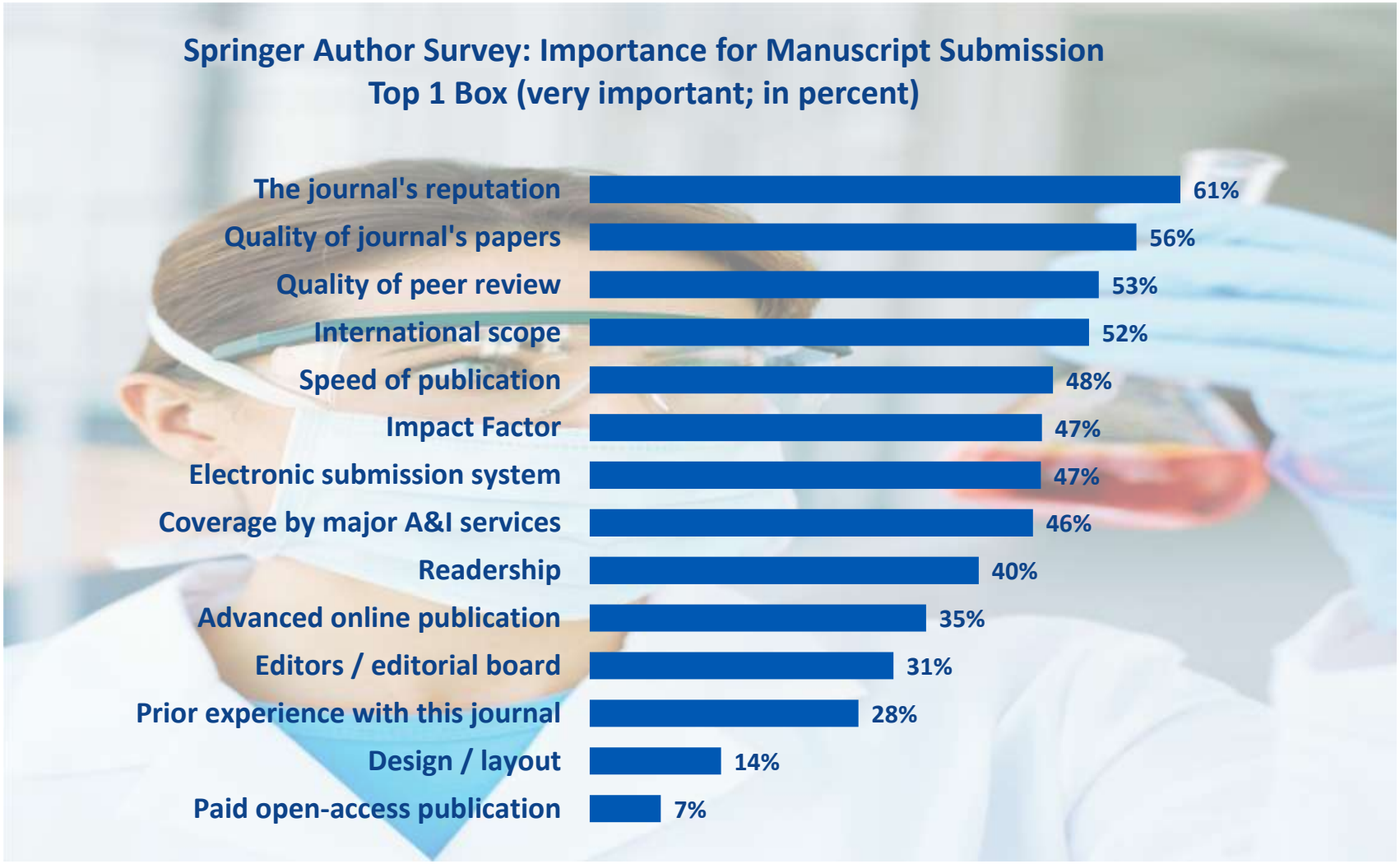
150,000 new articles per year

What do journal editors want?

Good quality science!

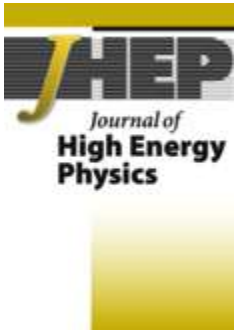
- Topic that fits into journal‘s scope
- Original research
- Active research area (creates discussions and citations)
- Peer review with nice feedback
- Clear, concise writing
- Sufficient command of English language

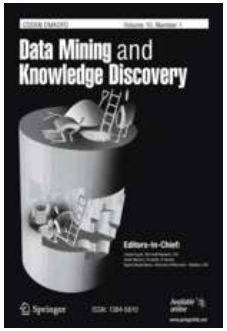
What do authors want?

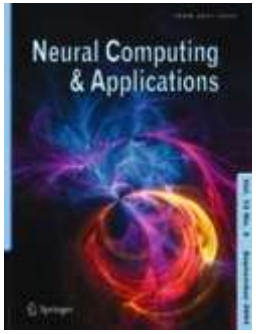


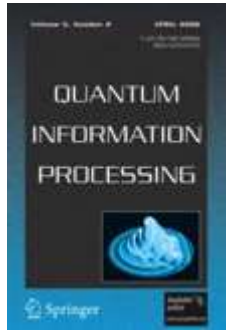
Source: Springer Author satisfaction Survey; 5-point rating: 1=very important to 5=not important at all

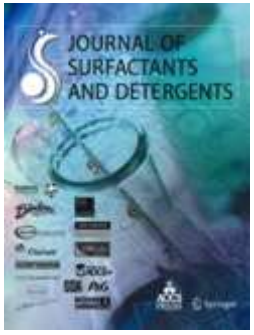
Journal Selection











Some tips on journal selection

- Read the journal product page and READ THE JOURNAL.
- Talk to your colleagues / peers about their experiences with journals you are considering (did they get visibility and citations)
- Make use of the expertise of your Library staff.
- Is an Impact Factor important to you? Or are you more concerned about usage/visibility?
- Don’t miss the importance of social networking sites.
- Join other relevant online groups and forums.
- Use the digital libraries, Abstracting & Indexing (A&I) services, Online Archives, etc.
- Check publisher sites, you can often find useful information in the ‘for authors’ section.
- Avoid journals with no clear submission and reviewing process

How to structure your article

Title	Read first and most. Keep it short and to the point. Must reflect the content of the paper.
Authors	Correct spelling, consistency in affiliation.
Abstract	75-250 word summary of objective and results. Includes key message of paper.
Keywords	Synonyms relevant as search terms e.g. in Google. Ideally not words from title because title words are automatically keywords.
Introduction	Explain i) why the work was conducted ii) what methodology was employed iii) why you chose this particular methodology iv) How the methodology accomplished the hypothesis set out in your abstract.
Methodology	Written clearly and concisely so that someone can follow what you did.

How to structure your article (cont.)

Analysis/Results	Present the results clearly and carefully.
Discussion	Discuss the results here. If the results were not what you were expecting this is where you can provide insights or speculations as to what happened and/or what you could have done differently.
Conclusions	Write down your conclusions from the study.
Acknowledgements	Acknowledge the people and institutions who have made your research possible e.g. funding.
References	Properly cite your referenced material; use the style of the journal.
Supplementary Material	List any supplementary materials, appendices.

The ‘write’ order

For maximum clarity and consistency,
write your manuscript in this order:

Methods Results	Write **during** the research
Introduction Discussion	Write **after** selecting your target journal
Title Abstract	**Write last**

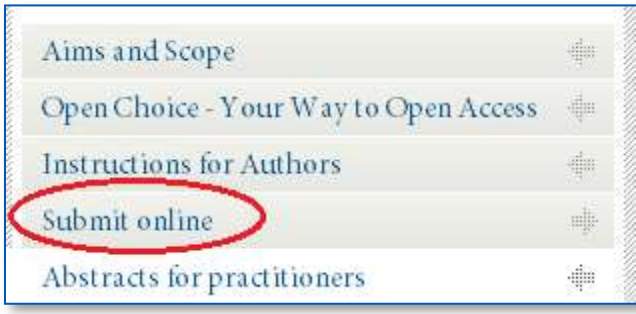
How to submit – dos and don'ts

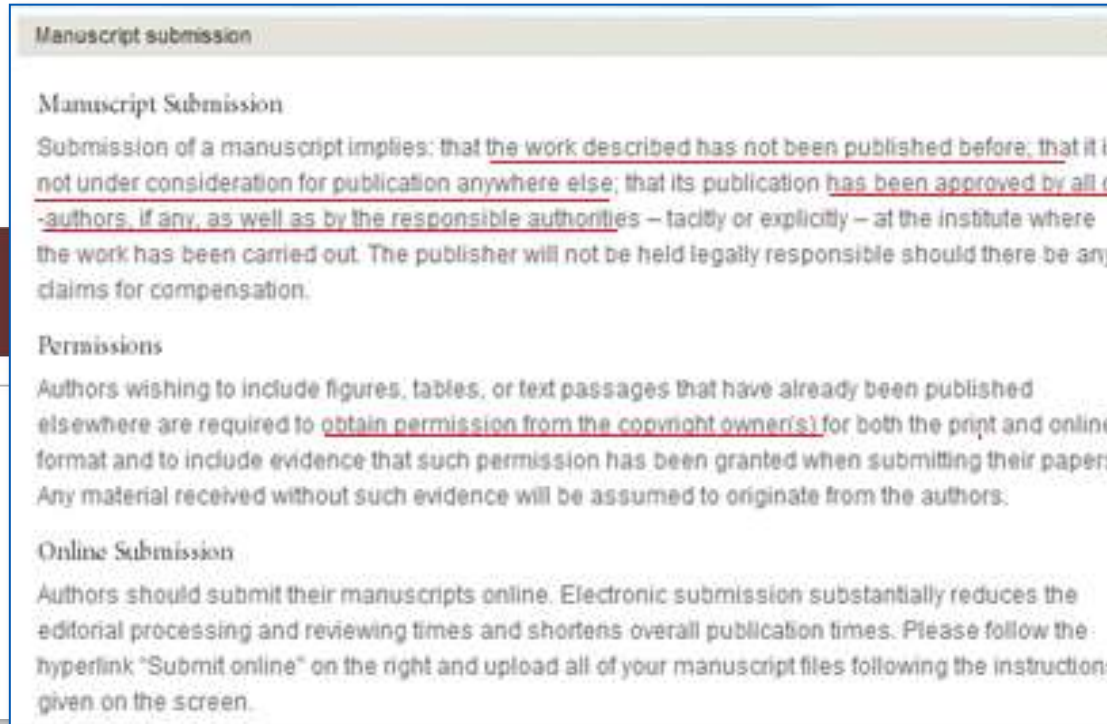
- Do not start writing just a few days prior to the intended submission date
- Do ask your colleagues for proofreading and comments before you submit
- Do read the guidelines for the journal very carefully and make sure that you conform to these.
- Do not contact editors or EB members asking to suggest a journal, do your research on journals FIRST!
- Do prepare a cover letter which explains why you think your paper falls within the scope of the journal and which outlines the paper's originality and/or significance (if asked for in the journal's guidelines)

Springer

Submission considerations – ethics

- The work described has not been published before.
- It is not under consideration anywhere else.
- Publication has been approved by co-authors and responsible authorities.
- Permissions obtained from copyright owners.
- Plagiarism
- Data fabrication and falsification





Peer review - What is it and why is it important?

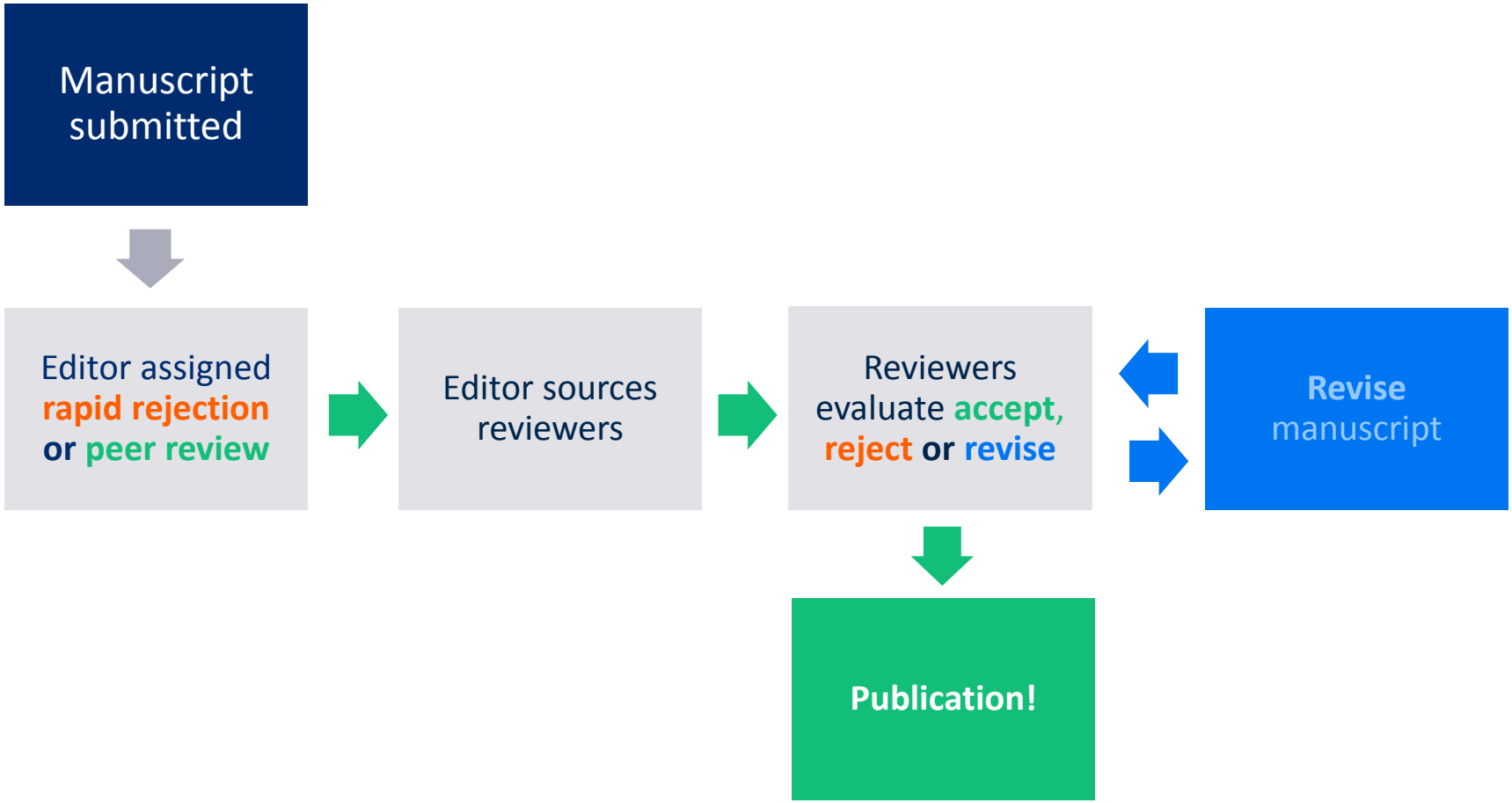
- Peer review is the process of having other experts in the field evaluate your article, your research and methodology, to determine if your paper is suitable for publication.
- Peer review is employed to maintain a high quality standard of published papers and to provide credibility.

Peer review - How to deal with feedback

- Nearly every manuscript requires revisions, often two or three revisions.
- Consider peer review feedback as advice to help you improve your article.
- Address all comments carefully. Write a response letter explaining how you modified the paper to address the comments.
- Minor revision does not guarantee acceptance after revision.
- Do not be disappointed if you receive a rejection.
- Do not start arguing or fighting about review comments.
- Very few manuscripts are accepted without any form of revision
- Rejection and revision are integral to the peer review process

Publishing timeline

Submission to publication, 3–12 months



How to measure quality - numbers

- Impact Factor: number of citations divided by the number of articles
- H-Index: основан на количестве публикаций и количестве цитирования этих публикаций
- Google Scholar and Microsoft Academic Search

How to measure quality - other factors

- Acceptance rate
- Quality and duration of peer review
- Speed of publication
- Global distribution and long-term archiving

Impact Factor

- There is much debate over Impact Factors in the scientific community, particularly with regard to the fairness of the system. However, there is no doubt that an Impact Factor is seen as a benchmark of quality of the journal in many academic communities.

Formula for the 2012 Impact Factor:

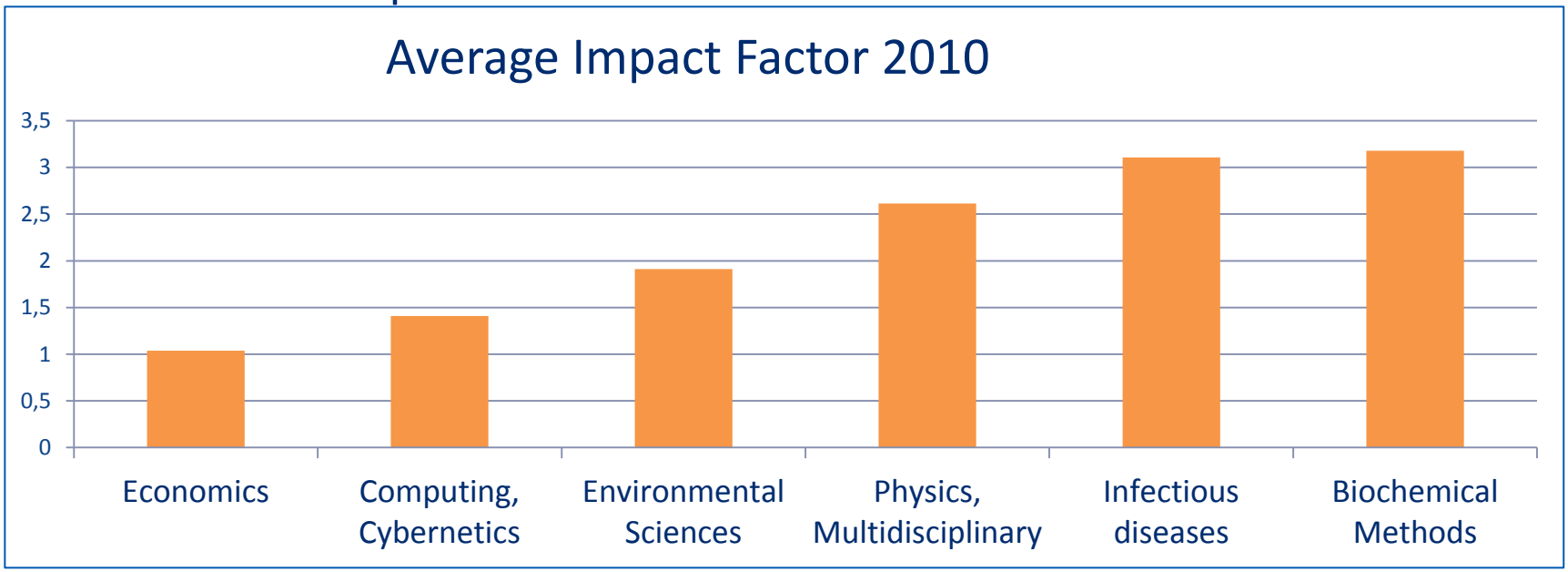
$$\frac{\text{Number of citations in 2012 to articles published in 2010 + 2011}}{\text{Total citable articles published in 2010 + 2011}}$$

Example:

$$\frac{\text{120 citations in 2012 (to articles published 2010 or 2011)}}{\text{80 articles published in 2010 and 2011}} = 1.5$$

Impact Factor - Points to consider

- Discipline specific – does the subject lend itself to citations?
- How big is the field? What is the number of scientists who research and write in a particular area?
- Other factors influence the formula e.g. number of issues published per year
- How “hot” the topic is



Impact factor & usage statistics - 2011

IF position	Journal	IF	Downloads	Download position
1	The VLDB Journal	4.517	46,568	6
2	International Journal of Computer Vision	3.508	173,513	1
3	Data Mining & Knowledge Discovery	2.95	71,555	3
4	User Modeling & User-Adapted Information	2.345	21,160	9
5	Journal of Cryptology	2.297	28,695	4
6	Knowledge & Information Systems	2.211	34,515	7
7	Scientometrics	2.167	141,632	2
8	Journal of Automated Reasoning	1.926	16,607	10
9	Information Retrieval	1.841	23,650	8
10	Statisitcs & Computing	1.821	67,711	4

Subscription Journals

IF: 0.25

IF: 0.3

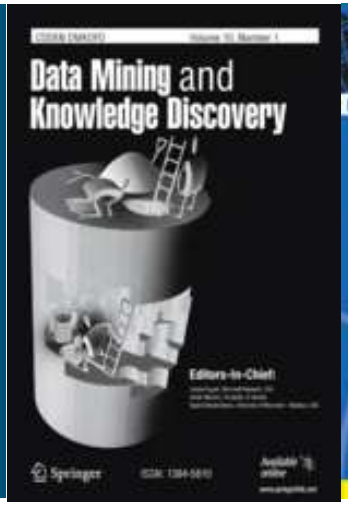
Springer

Compare...

IF: 0.25

IF: 0.3

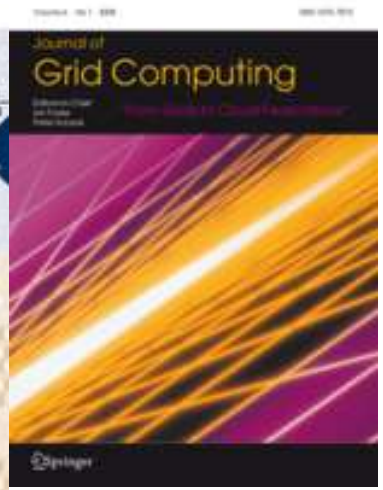
IF: 3.62



IF: 2.88

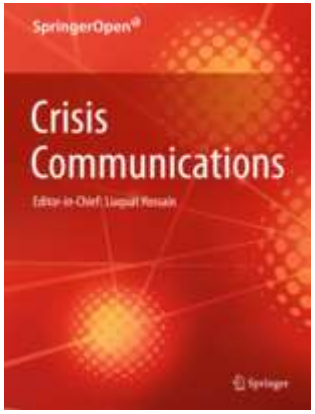
IF: 1.6

IF: 1.4



IF: 1.6

SpringerOpen (Open Access) Journals in Computer Science



Any questions?

Open access?

Publication procedure?

Selecting a journal?

Publication ethics?

Impact factor and other metrics?

Conference proceedings ... for an author

Conferences vs journals

Pros

- Old, well-reputed conferences in computer science have higher status than many journals
- Higher visibility and greater impact – direct contact with your peers
- More timely

Cons

- Acceptance rate for top conferences is often 8-15%
- Hard deadlines and page limits. NO MAJOR REVISION
- Reviews are less detailed
- Sometimes journals value more for your promotion/funding

adapted and extended from:
http://homes.cs.washington.edu/~mernst/advice/conferences-vs-journals.html

How to know about conferences?

- Springer LNCS forthcoming proceedings list: http://www.springer.com/computer/lncs?SGWID=0-164-12-73665-0
- CCIS forthcoming proceedings list: http://www.springer.com/series/7899
- LNBIP forthcoming proceedings list: http://www.springer.com/series/7911

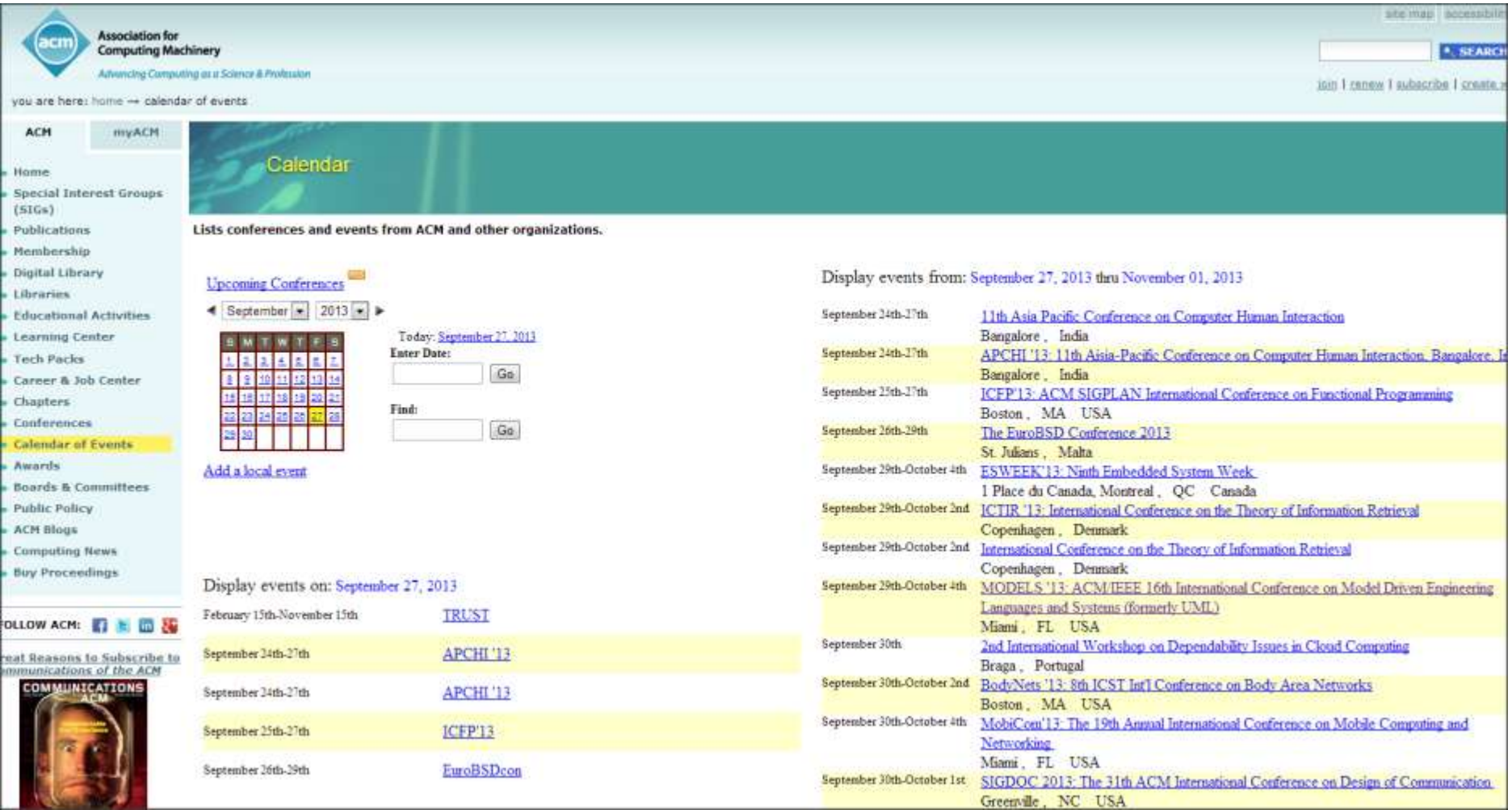
LNCS Forthcoming Proceedings 2013/2014 – © Springer – 13th September, 2013 – Page 11 of 13

November 2013 28 events

03-07	Recife, PE, Brazil	BSB 2013
03-07	Daegu, Korea	ICONIP 2013
05-07	Haifa, Israel	HVC 2013
06-09	Istanbul, Turkey	ICIDS 2013
11	Palo Alto, CA, USA	MOMPES 2013
11-13	Hong Kong, China	ER 2013
11-13	Fort Worth, TX, USA	GameSec 2013
13-15	Enschede, The Netherlands	ACE 2013
13-15	Bruxelles, Belgium	ADT 2013
13-15	Zhangjiajie, China	CSS 2013
13-15	Istanbul, Turkey	ICTSS 2013
13-15	Dallas, TX, USA	ISC 2013
13-15	Bangi, Selangor, Malaysia	IVIC 2013

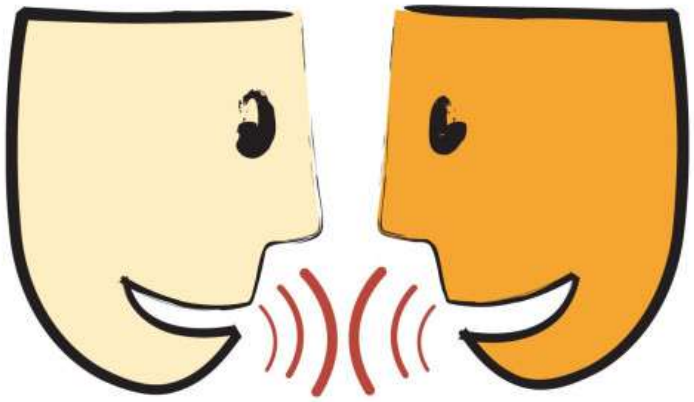
How to know about conferences?

- ACM calendar: http://www.acm.org/calendar-of-events



Other resources

- IEEE list of events: http://www.ieee.org/conferences_events/index.html
- Mailing lists
  - DBWorld https://research.cs.wisc.edu/dbworld/
  - AISWorld http://www.aisnet.org/AIS_Lists/publiclists.aspx
  - ACM SIG-IR list http://www.sigir.org/sigirlist/
  - ECOOP info list http://web.satd.uma.es/mailman/listinfo/ecoop-info
  - ...
- eventseer.net
- WikiCFP
  A Wiki for Calls For Papers



What happens with your conference submission?

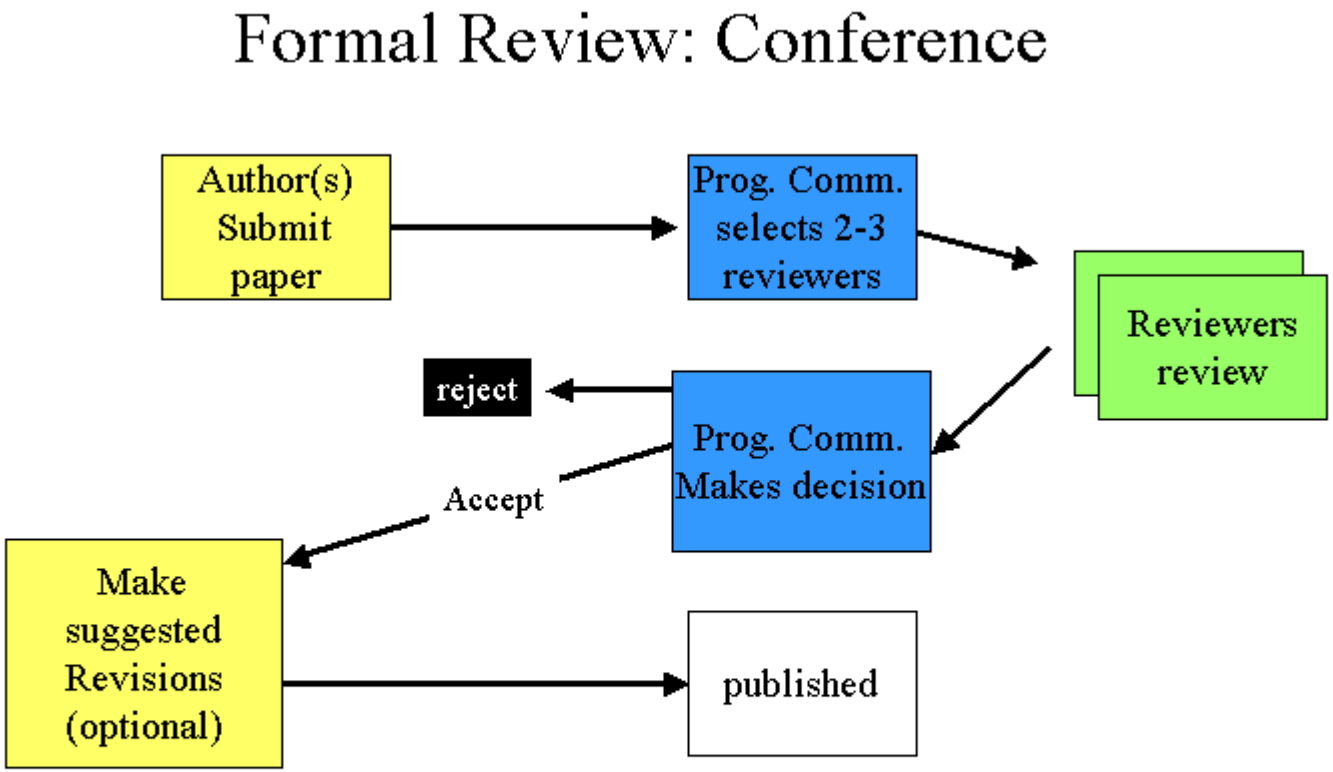
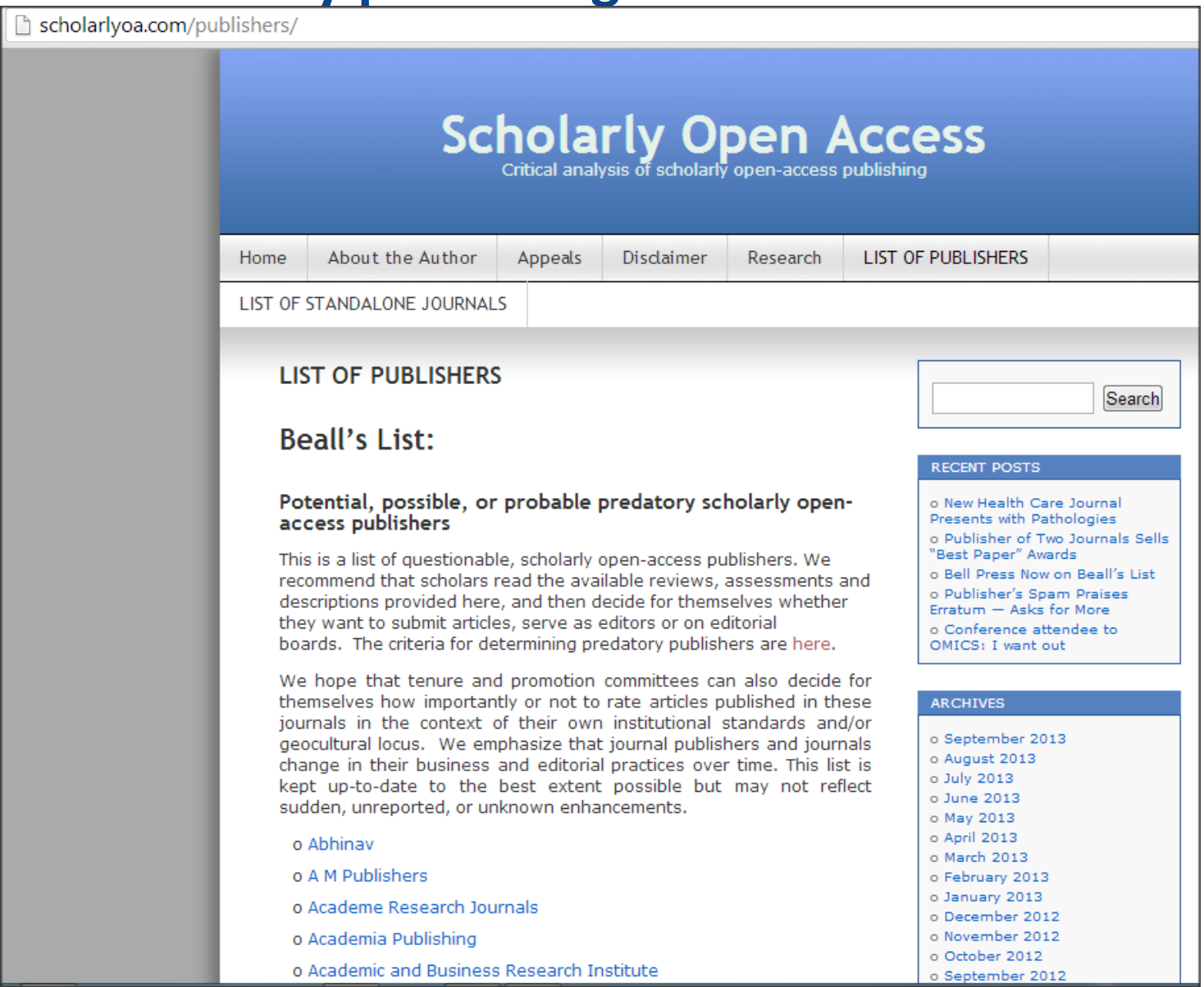


diagram from: http://www.cs.ucsb.edu/~ebelding/courses/284/papers/ReviewingPapersStudentGuide.html

Springer

Predatory publishing



Springer

Top conferences do not SPAM your mailbox...

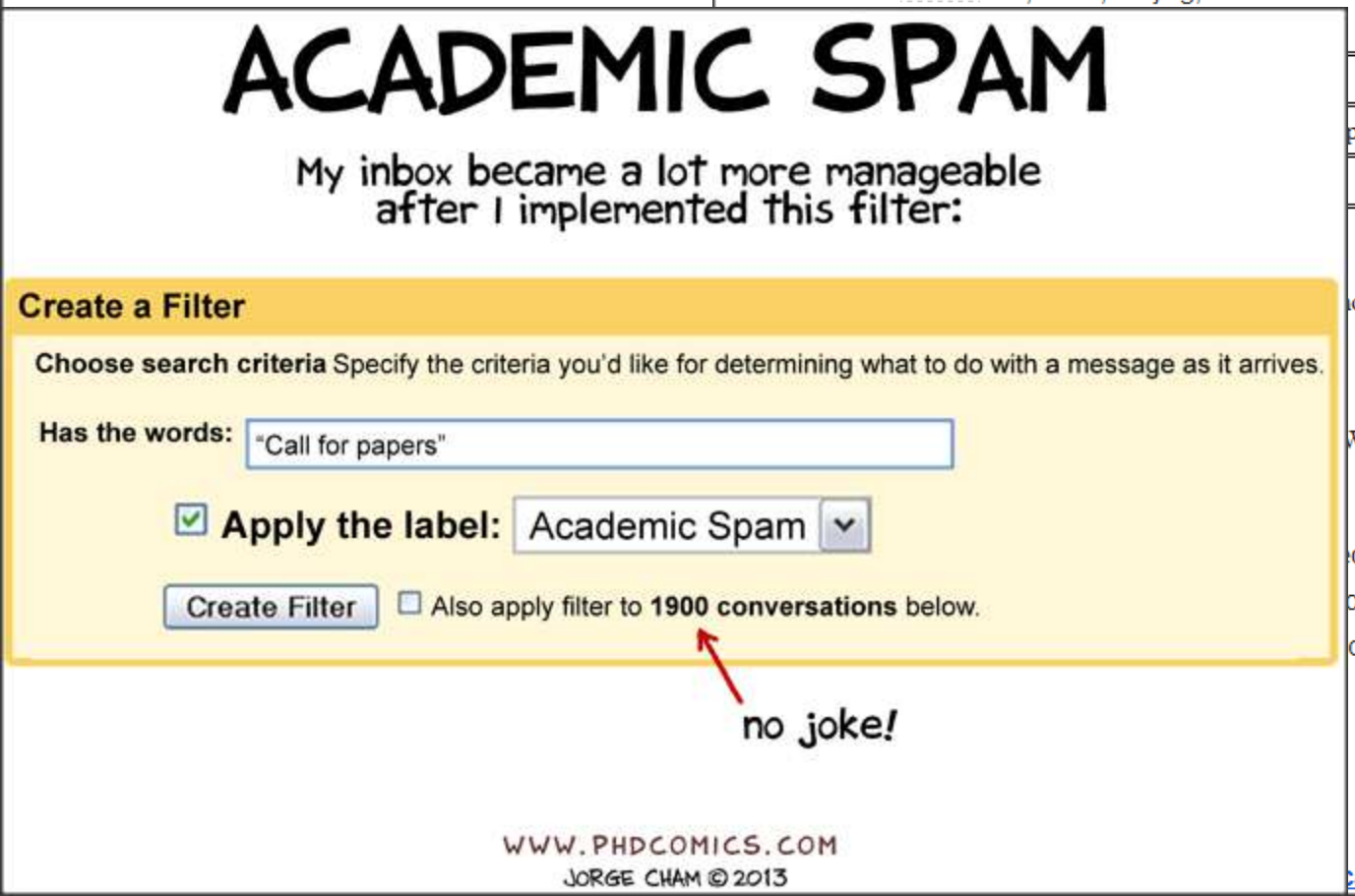
Informatics Section BMEI 2013: Deadline 30 August, Hangzhou, China [Submitting to IEEE Xplore/ISI/Ei] _AcademicSpam x

Prof Zhou <cispbmei_cfp@cs.hznu.edu.cn> Aug 27

to birukou

Dear Colleague,

will be held on Jan.04~05, 2014, Beijing, China.



pplications

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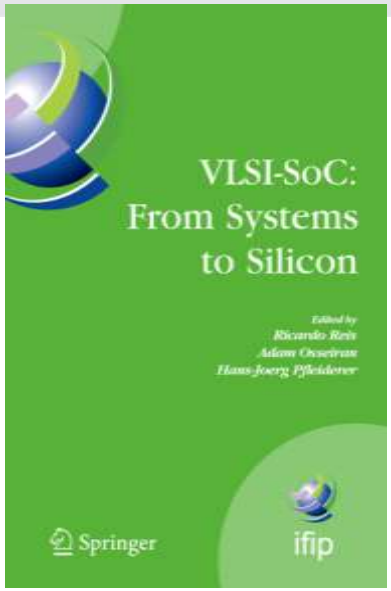
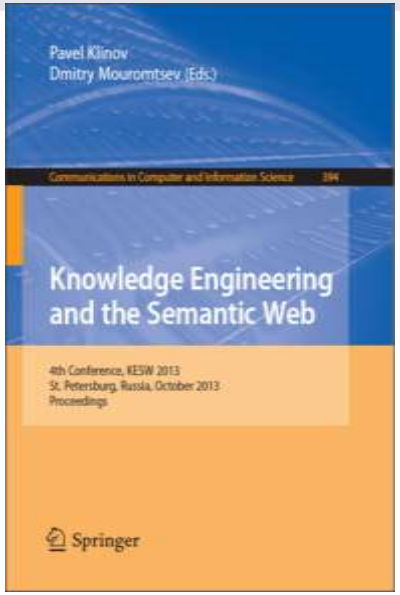




Conference proceedings ... for an editor

Springer

Недавние сборники трудов конференций, проходивших в Москве

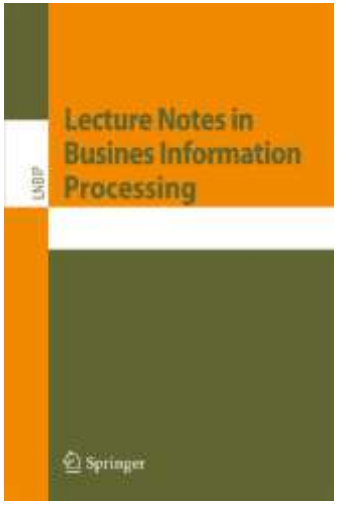
Conference proceedings publication

- We are looking for:
  - peer-reviewed content
  - of potential interest to international audience
  - scope: anything in computer science, but must be FOCUSED!, interdisciplinary content is also welcome
- Process (see next slides)

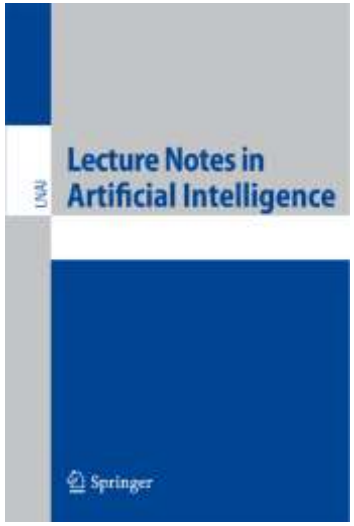
1. Submission of the proposal

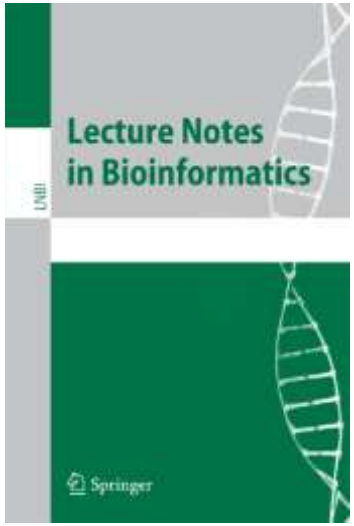
- **Key elements of the proposal**
- Event history (for the last 3 editions)
  - number of submissions
  - number of accepted papers
  - number of participants
- Expected number of submissions/accepted papers/participants for current edition
- Topics (Call For Papers)
- Program committee
- How international the event is? OR Indicators of regional importance of the event
- Description of the review process and deadlines

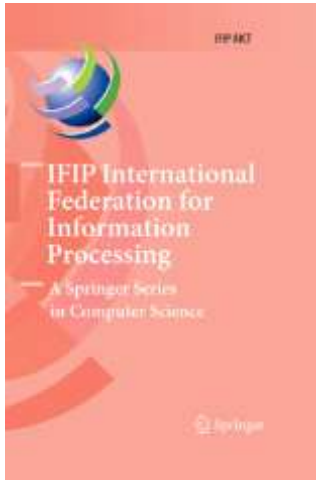
2. Selecting conference proceedings series

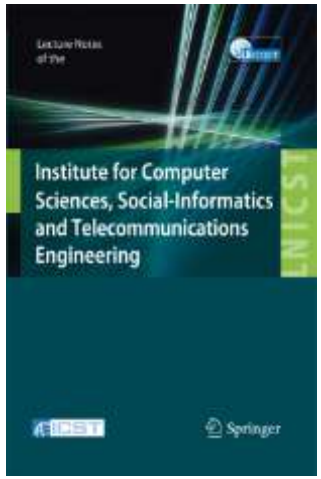


780 titles per year (78% of CS titles)



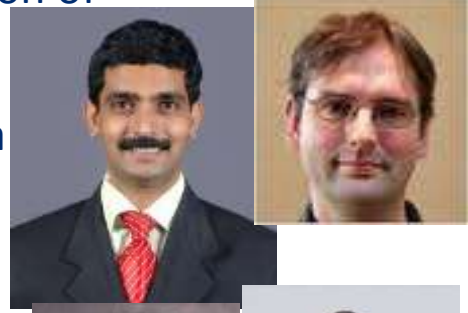




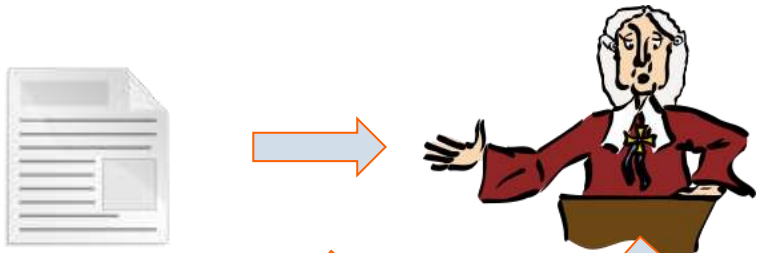


3. Evaluation
example: CCIS editorial board

1. Simone Diniz Junqueira Barbosa, PUC-Rio, Rio de Janeiro, Brazil
2. Phoebe Chen, La Trobe University, Melbourne, Australia
3. Alfredo Cuzzocrea, ICAR-CNR and University of Calabria, Italy
4. Xiaoyong Du, Renmin University of China, Beijing, China
5. Joaquim Filipe, Polytechnic Institute of Setúbal, Portugal
6. Orhun Kara, TÜBİTAK BİLGEM + Middle East Technical University,Turkey
7. Igor Kotenko, St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences, Russia
8. Krishna M. Sivalingam, Indian Institute of Technology Madras, India
9. Dominik Ślęzak, University of Warsaw and Infobright, Poland
10. Xiaokang Yang, Shanghai Jiao Tong University, China
11. Takashi Washio, Osaka University, Japan



4. Decision



Accept

Conditional accept

Reject

5. Prepare files and select publication options

- Post/pre- proceedings
- Open Access (for a fee) / Subscription-based model (FREE)

- Springer provides author/editor instructions, templates
- Online Conference Service (free) for managing submissions
- Integration with EasyChair

- Upload files electronically

6. Production process

- Typesetting
- Copyediting
- Reference check
- Proofs sent to the authors for confirmation
- Authors get lifetime 33.33% discount for ordering books at www.springer.com

7. Dissemination

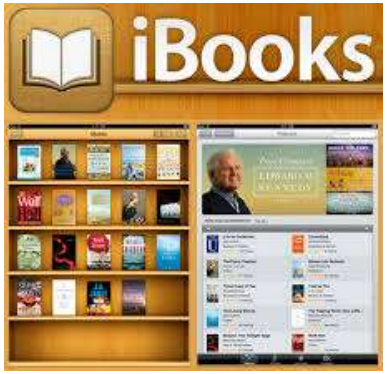
8 mln papers

Springer Link

- major academic institutions
- companies

IEEE Xplore DIGITAL LIBRARY

ACM DL DIGITAL



amazon.com

Springer

8. Indexing

dblp
computer science bibliography

Scopus

ISI PROCEEDINGS
Powered by ISI Web of Knowledge

Engineering Index

Zentralblatt MATH

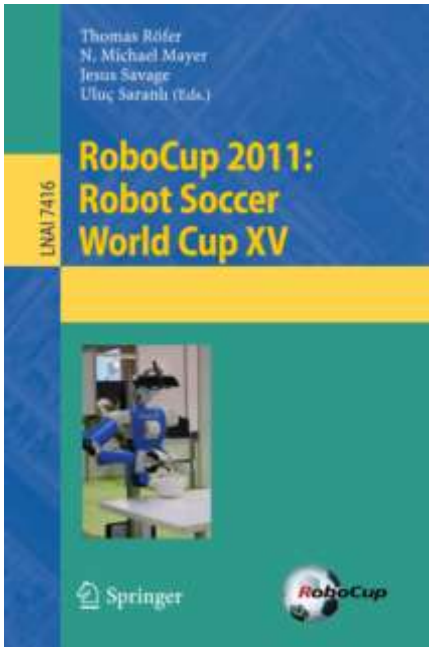
Google scholar

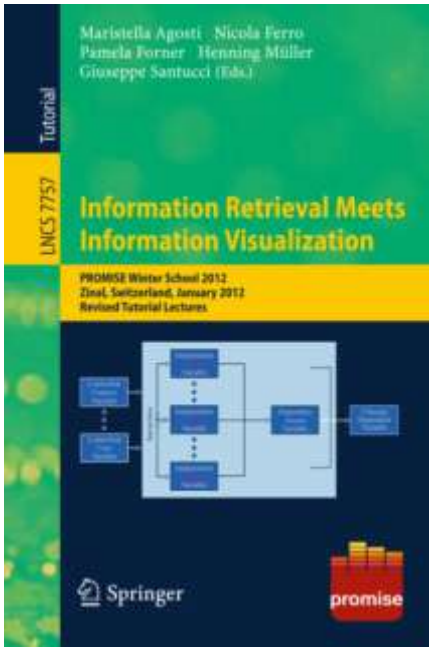
AMERICAN MATHEMATICAL SOCIETY
MathSciNet
Mathematical Reviews

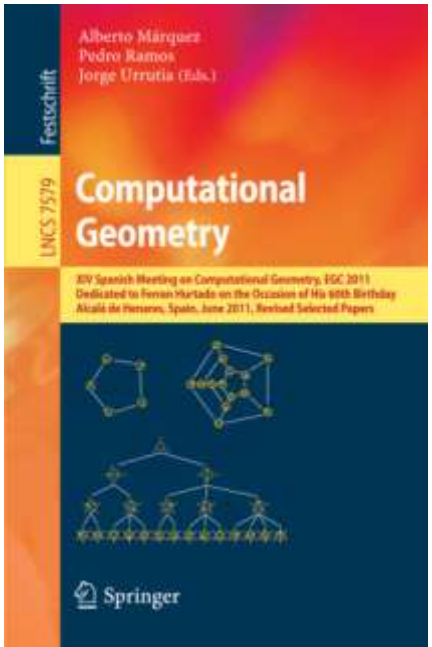
SJR SCImago Journal & Country Rank

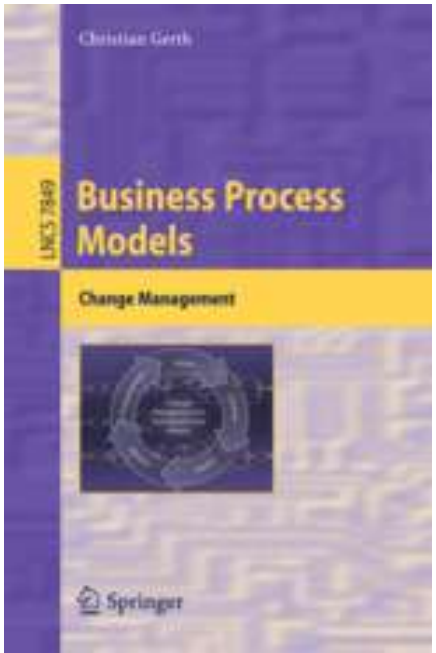
Springer

...Not only proceedings









Springer

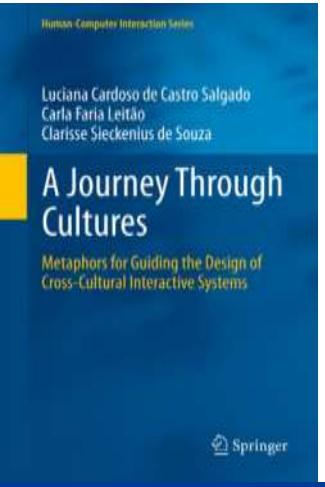
How to start?

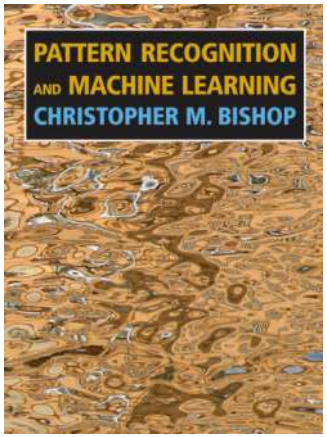
- Send a proposal to

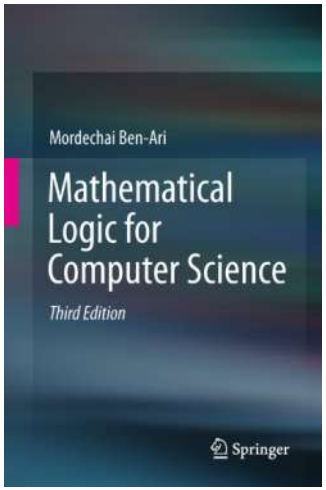
aliaksandr.birukou@springer.com

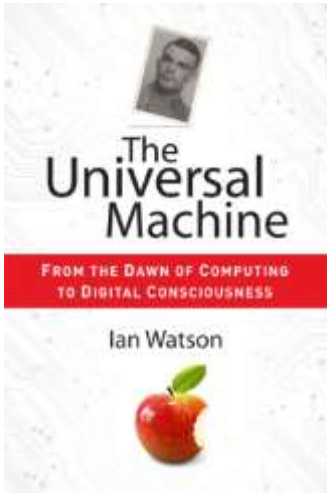
Springer

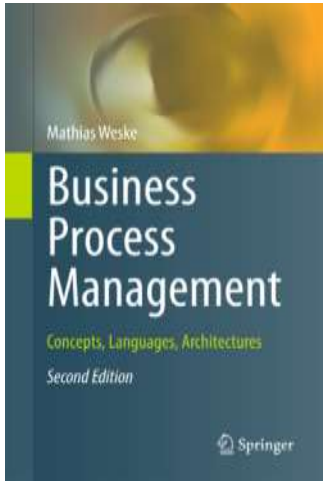
Last but not the least ....



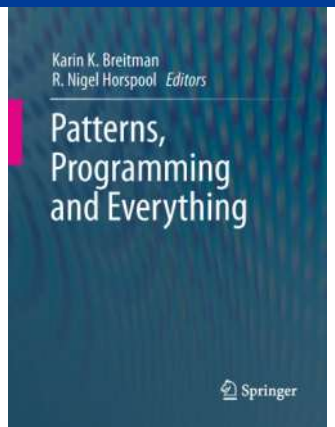


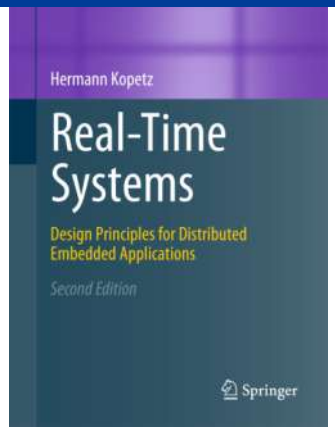


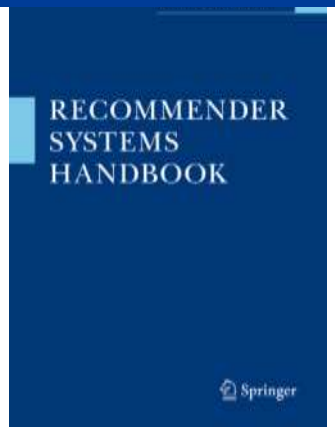




Books





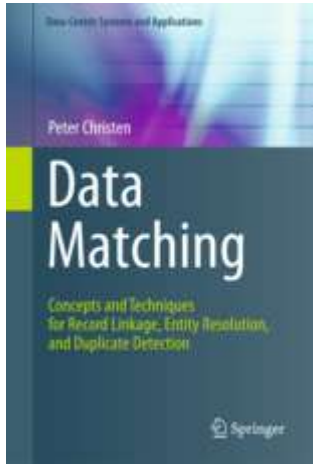


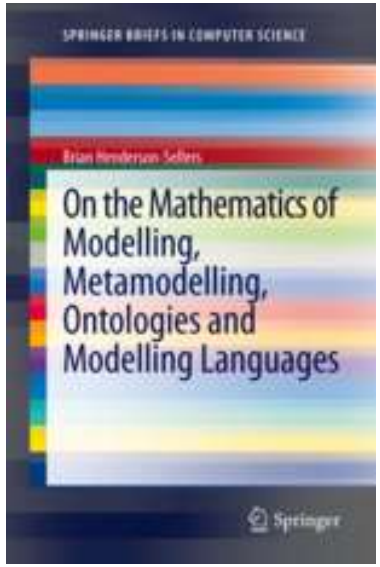
Books vs. Journals

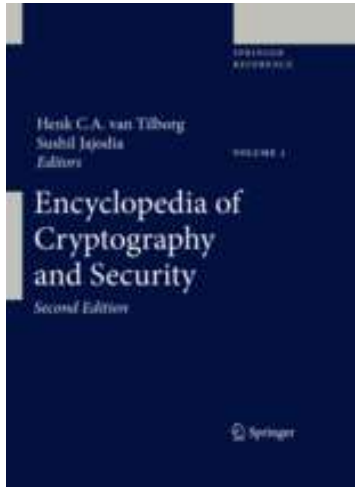
- Academic books have a different purpose from academic journals
- An academic book is a **complete** scholarly work on a **specific** topic
- **Book chapters** fulfill a similar role to **review articles**, with books representing a **collection** of manuscripts on related topics
- By contrast, review articles published in journals are usually **unrelated** to all of the other articles in the same issue
- Book includes large bibliography, recommended readings, summaries, exercises, index

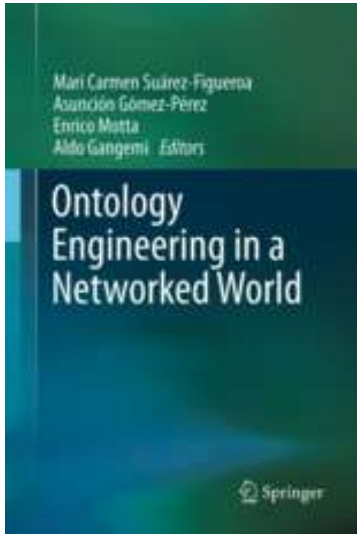
Different types of books

- Monographs
- Edited Volume
- Textbook
- Professional Texts
- MRW – Major Reference Works
- Handbooks (Springer Reference)
- SpringerBriefs
- SpringerTheses
- Popular Science
- ...also proceedings









- I have an idea for a book…
- What type of book shall I write?
- How do I get started?

How to prepare a book proposal

- a short (3-5 pages, no special format) **description of the planned book**, its **aims & scope**, main emphasis, main **target group** (and how this group will benefit from the book), prerequisites needed to understand the book, and its **relation to other publications** in the area (if there are any).
- a **table of contents**, incl a rough page estimate and a short summary of the main chapters (like for a conference paper).
- some information about the **book authors/editors**
- if it's an edited book, a **list of contributors**, and if their contributions are already confirmed or still have to be asked for.
- some information about your intended writing **schedule**, i.e. by when you plan to make a manuscript version available for review and copy-editing.

How Springer helps you to publish a book

- Proposals are externally reviewed
- Springer provides style guides and detailed writing instructions
- Springer carries out all the typesetting, formatting, etc.
- Springer Editors guide you through the process
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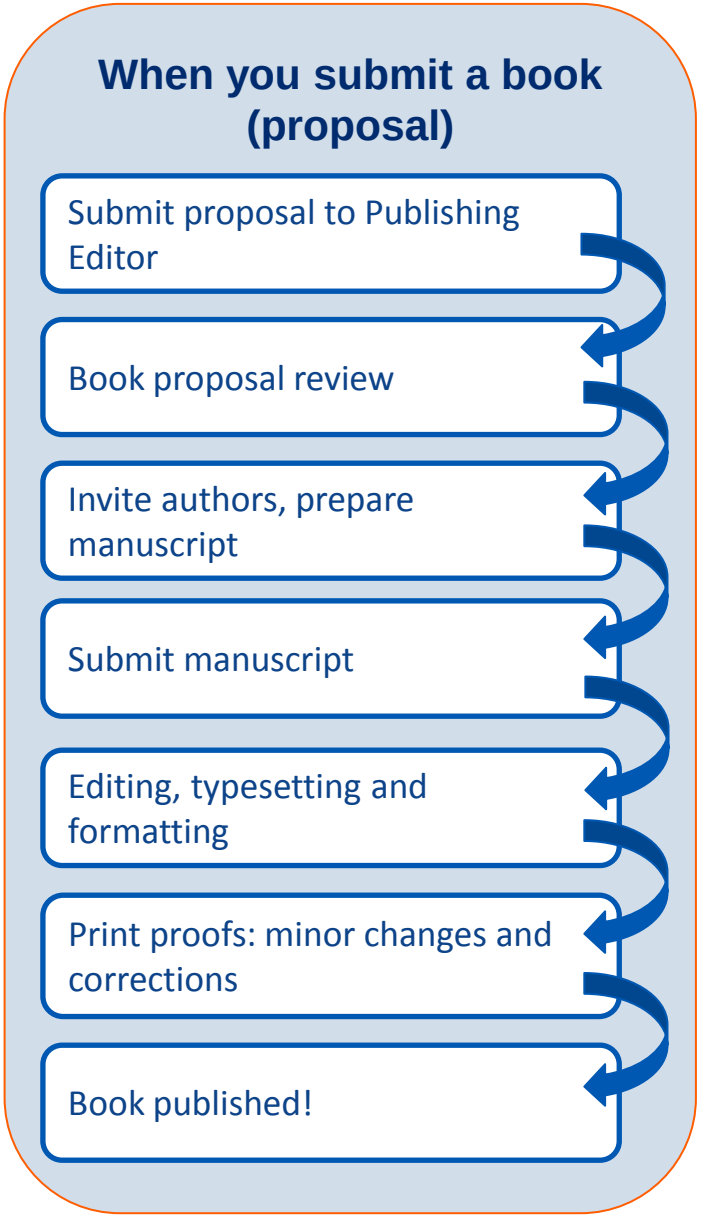

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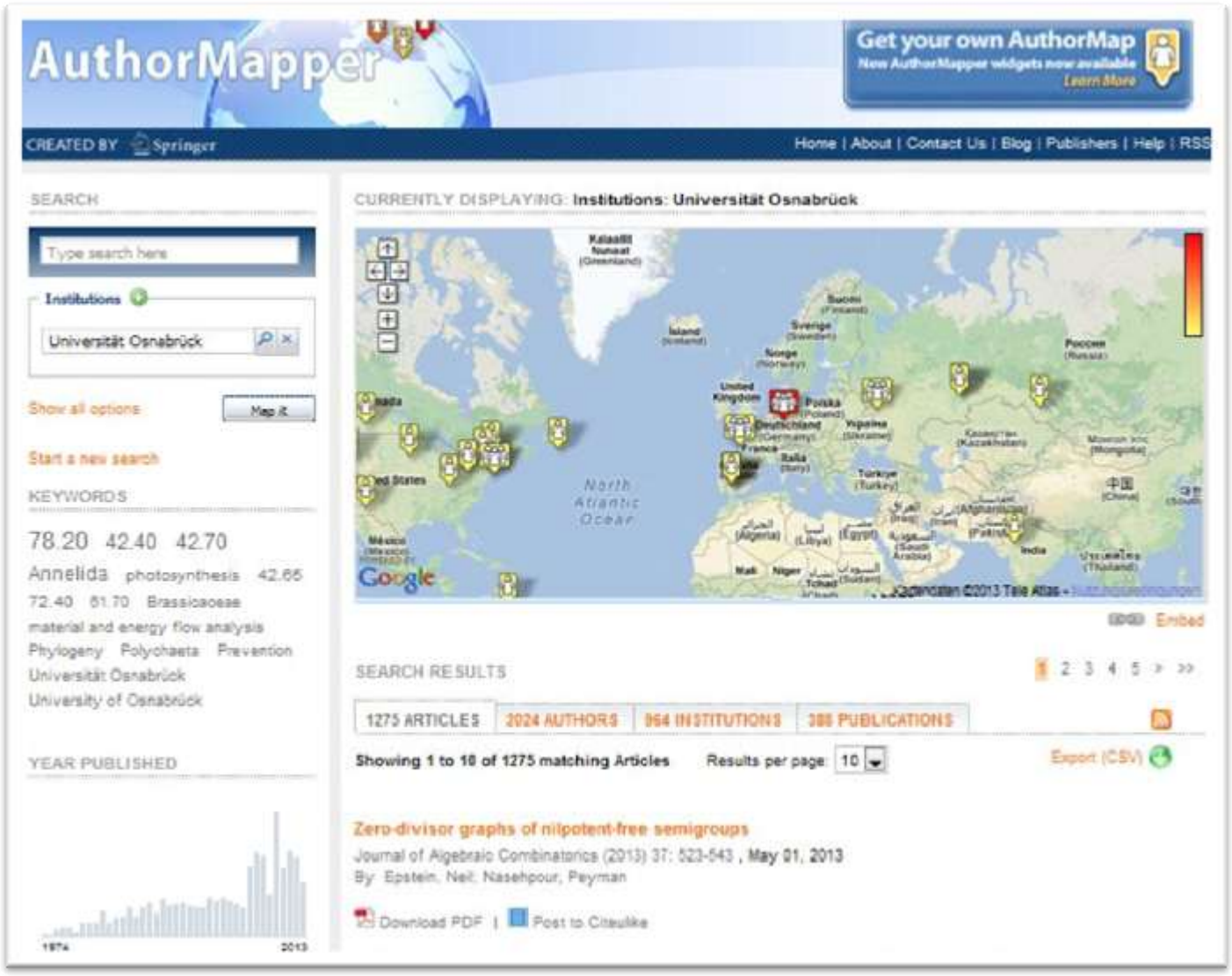

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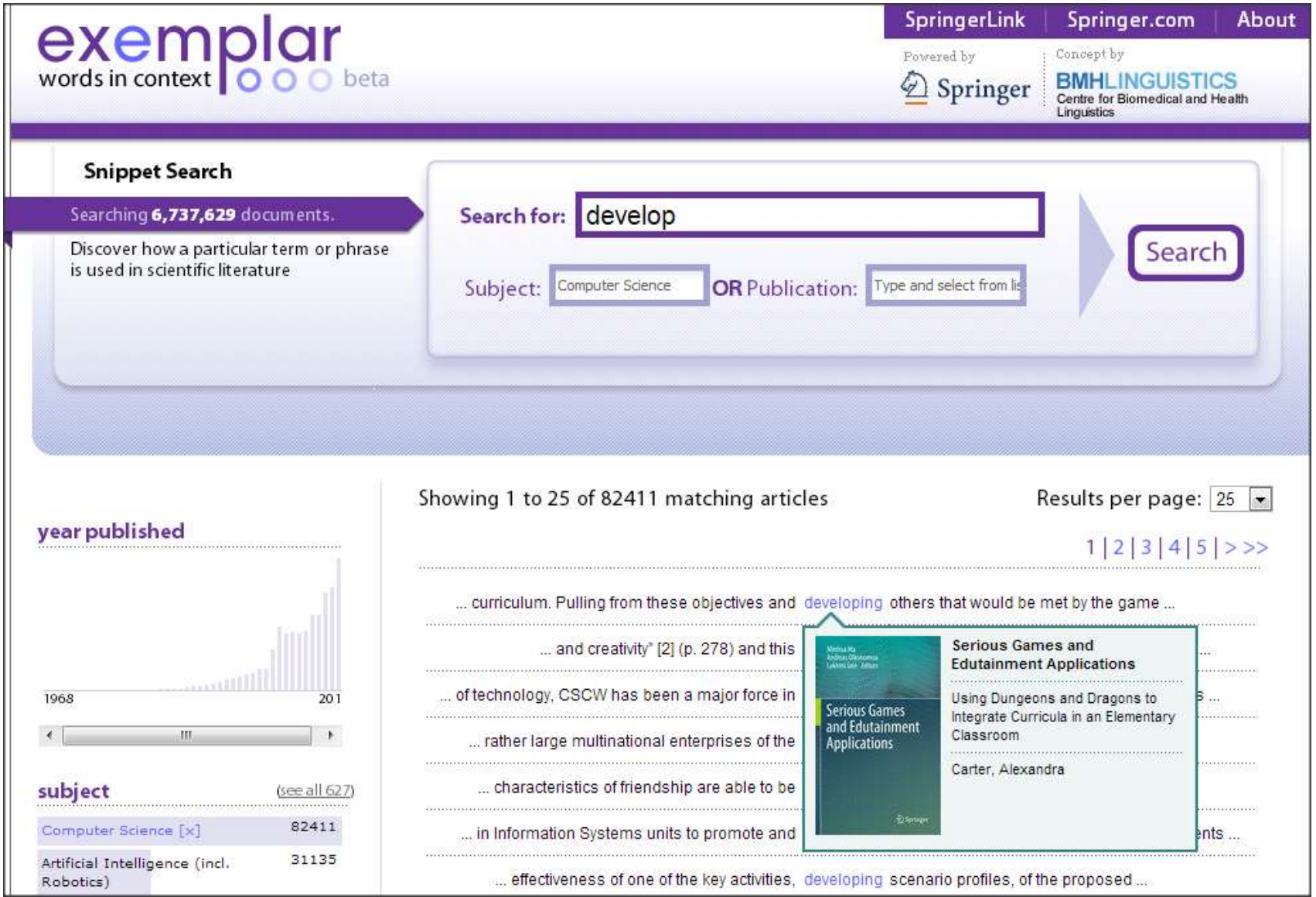

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- \sqrt{{{1}\over {N-3}}
- \frac{{\alpha_{\gamma}}}
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SAMPLE RESULT

Self-intersections of random walks on lattices

Acta Mathematica Hungarica (2002) 96:187-220, August 01, 2002

$$P\left(E_n^{(d)}, \text{i.o.}\right) = 0 \quad \text{or} \quad 1$$

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P\left( {E_n^{\left( d \right)}} ,{\text{i}}{\text{.o}}{\text{.}}}
\right) = 0\quad {\text{or}}\quad {\text{1}}
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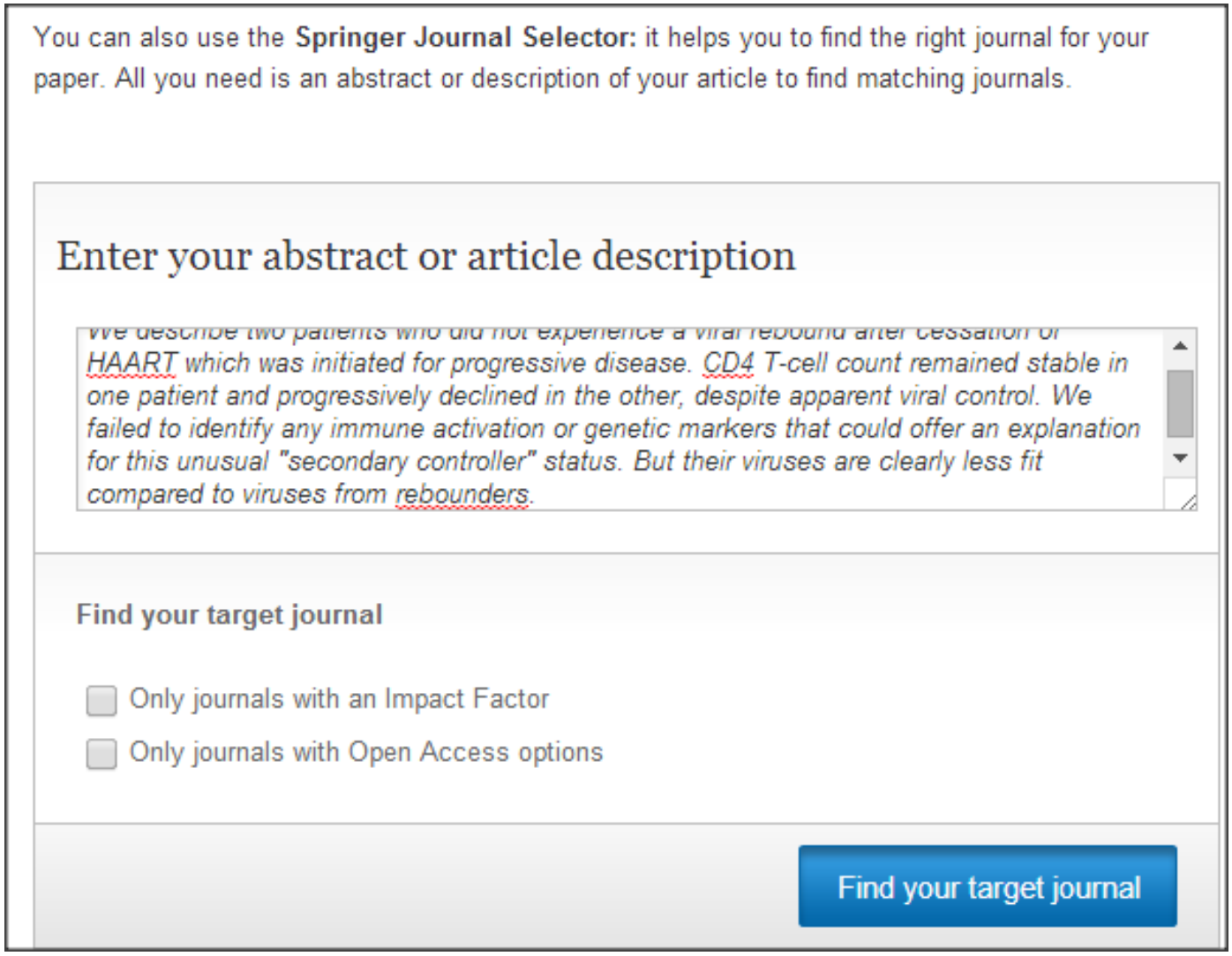

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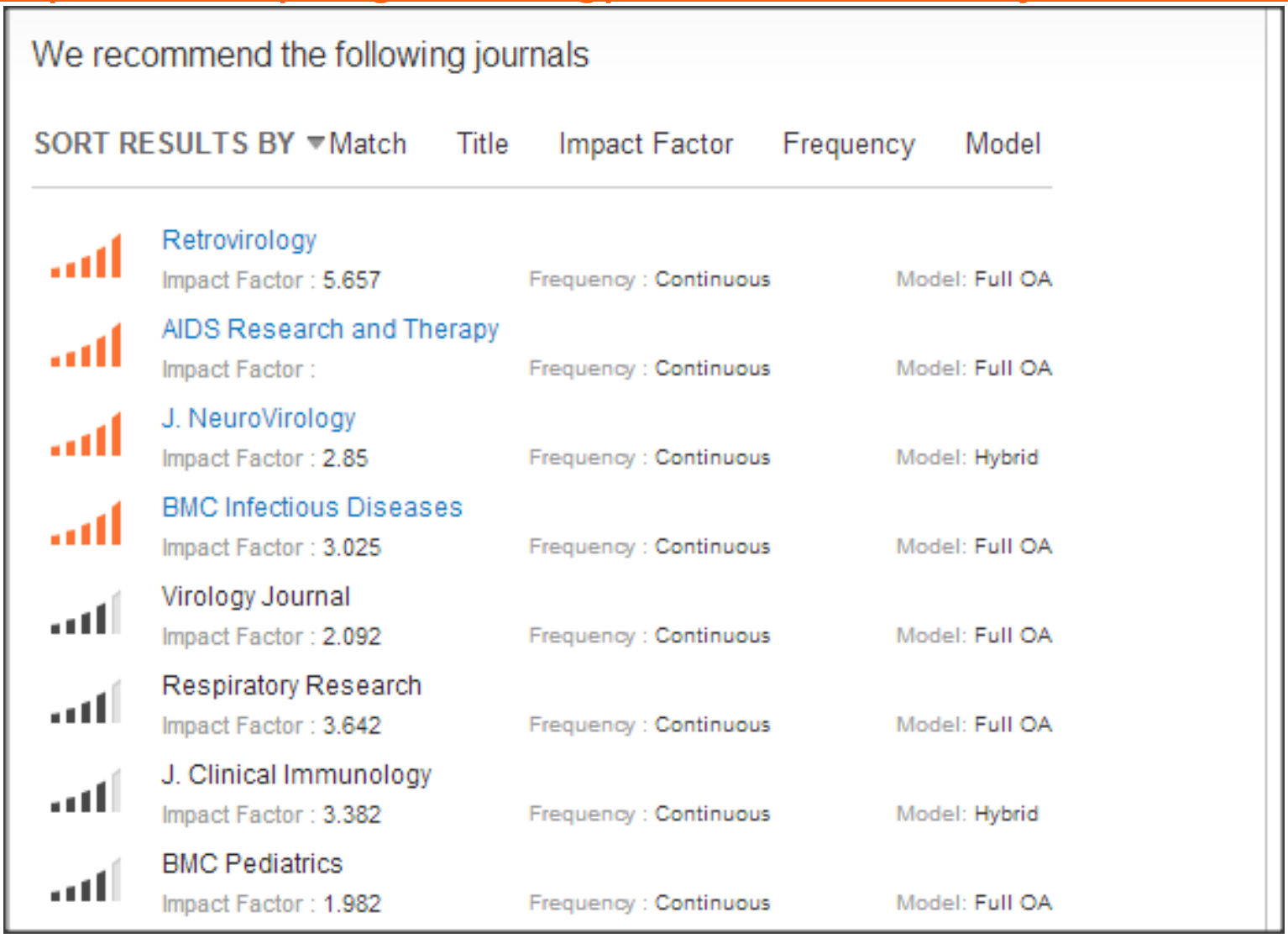

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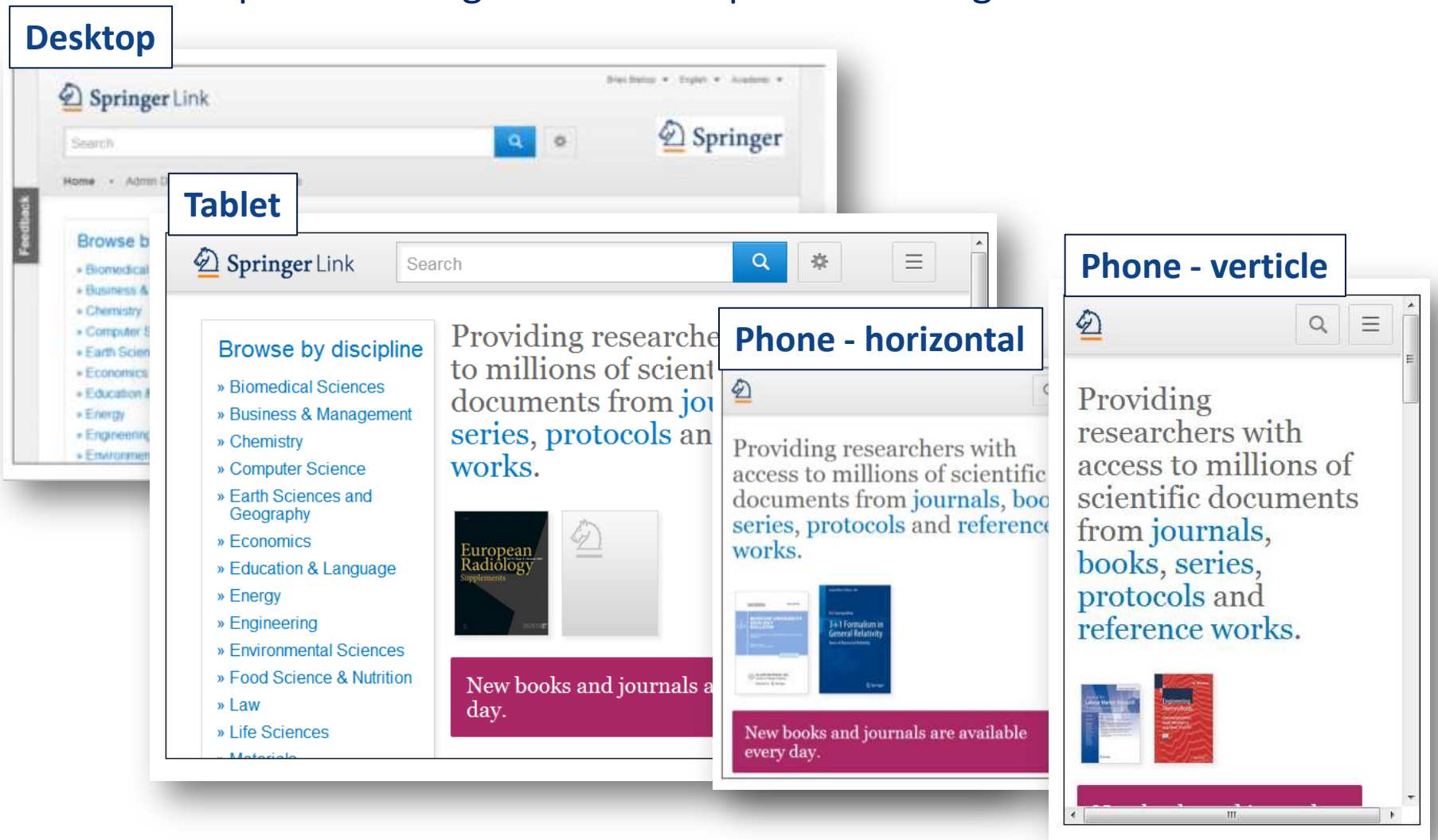

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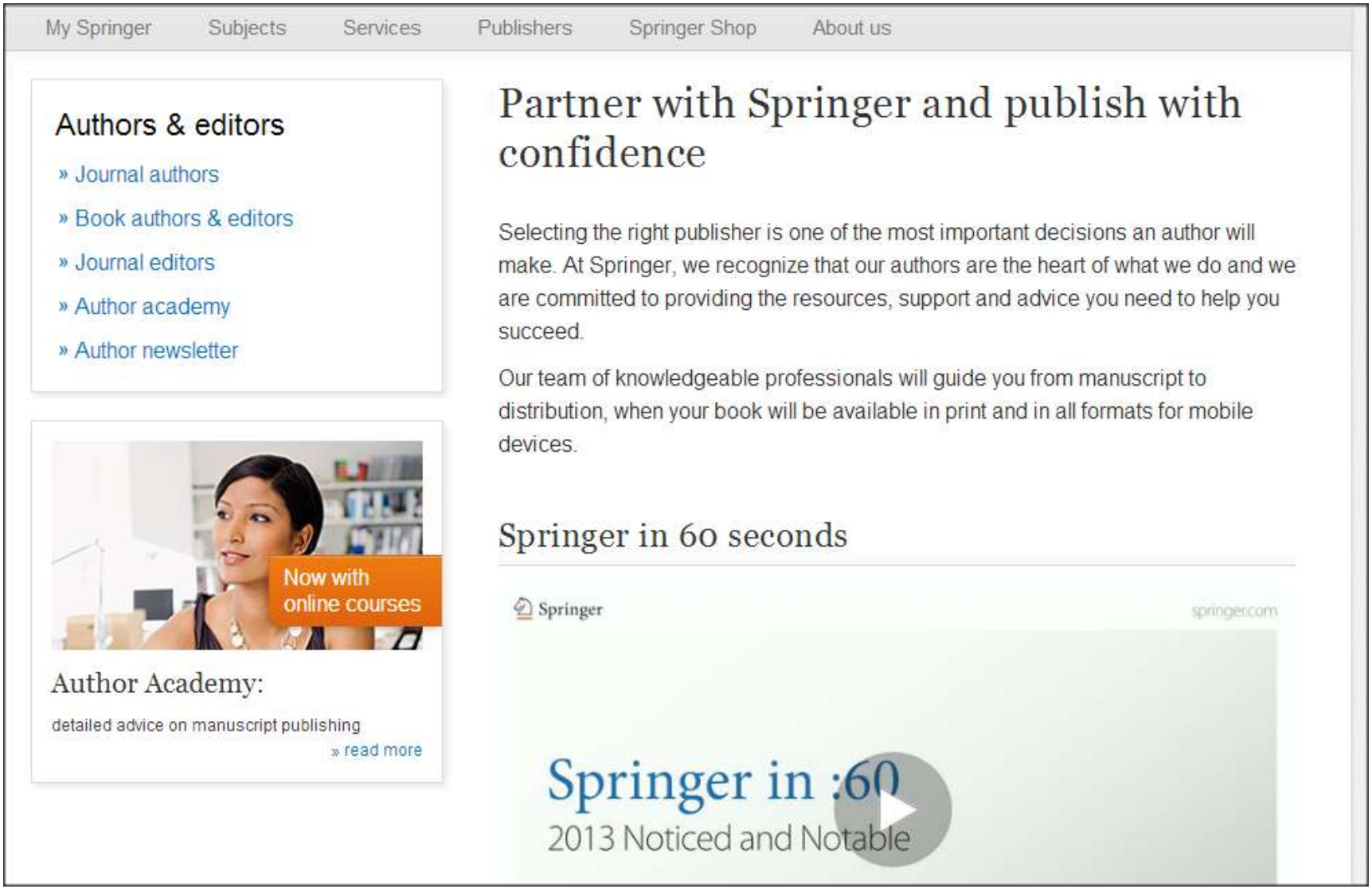

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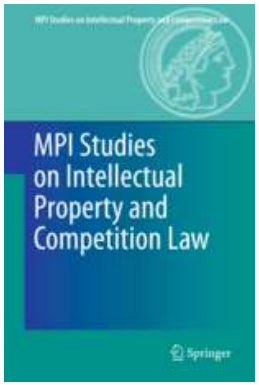

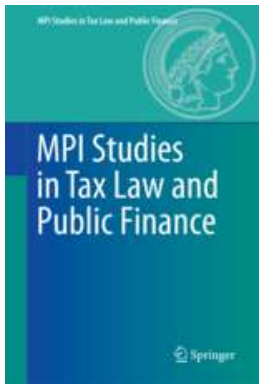

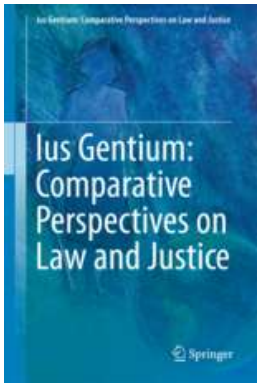

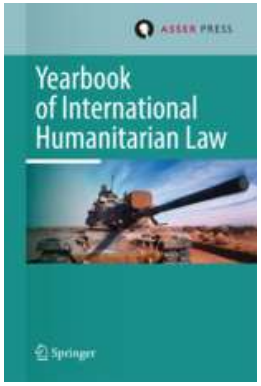

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