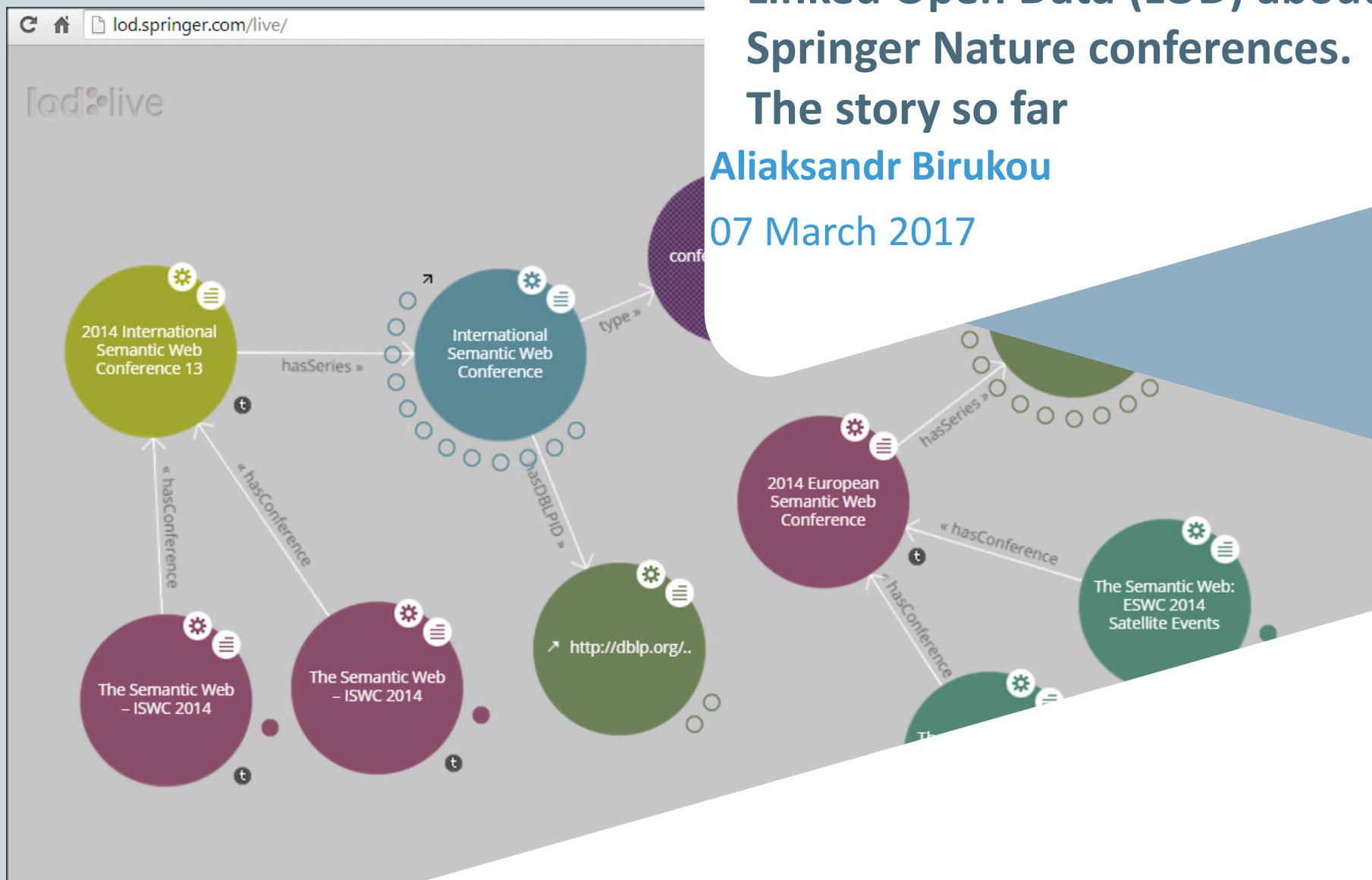


Linked Open Data (LOD) about Springer Nature conferences.

The story so far

Aliaksandr Birukou

07 March 2017



SPRINGER NATURE

Conferences and Linked Open Data portal

1

Role of conference proceedings in CS

- Computer science publishes a significant portion of its research outputs as conference proceedings
 - conference papers constitute 20-70% of references in journals
- More reviewers, faster publication
- Acceptance rate for top conferences is often 8-15%
- Higher visibility and greater impact – direct contact with your peers

Number of conference proceedings in CS (and engineering)



IEEE IEEE

- **6,887** conferences published since 1951 in IEEEXplore
- more than **1,400** conference proceedings per year
- Scope: electrical engineering, computer science, and related fields



- Springer
- **11,000** conferences published since 1973 in SpringerLink
- more than **1,200** conference proceedings per year: 800 (CS) + 400 (rest)
- Scope: computer science, engineering, math, business and economics, any other field



- ACM conference proceedings
 - around **8,000** conferences
- ACM International Conference Proceeding Series (ICPS)
 - established in 2002
 - 26,223 papers from **821** conferences till end 2014

Looking closer at LNCS

Celebrating 10,000 manuscripts

#LNCSMilestone

CONGRATULATIONS



928,043
authors



314,549
papers



33,496
volume editors



2,097
conference series

Lecture Notes in Computer Science (LNCS)

Video: A trip through LNCS' history



Association for
Computing Machinery

Advancing Computing as a Science & Profession

ACM HONORS INTERNATIONAL LEADERS WHO HELPED ADVANCE
COMPUTER SCIENCE IN THE DIGITAL AGE

Recipients Contributed to Research Dissemination, ACM Infrastructure, and Curriculum
Changes

Gerhard Goos of Karlsruhe Institute of Technology, **Juris Hartmanis** of Cornell University, and **Jan van Leeuwen** of Utrecht University, recipients of the [ACM Distinguished Service Award](#) for their definitive role in establishing computer science as a vibrant subject. Their stewardship as series editors of the Springer Lecture Notes in Computer Science (LNCS), published since 1973, launched this series into a highly visible platform for disseminating research results from all areas of the nascent computing field. At a time when researchers often worked in isolation, they provided a widely read forum for exploring new areas, enabling dissemination of ideas, and offering initial exposure to young researchers.

Google Scholar citation ranking – IF for proceedings?

5

← → ↺ 🏠 scholar.google.com/citations?view_op=top_venues&hl=en&vq=eng_computersecuritycryptography

Web Images More...

Google Scholar

English

Business, Economics & Management

Chemical & Material Sciences

Engineering & Computer Science

Computer Security & Cryptography

Health & Medical Sciences

Humanities, Literature & Arts

Life Sciences & Earth Sciences

Physics & Mathematics

Social Sciences

Chinese

Portuguese

German

Spanish

French

Italian

Japanese

Dutch

Top publications - Computer Security & Cryptography [Learn more](#)

Publication	h5-index	h5-median
1. ACM Symposium on Information, Computer and Communications Security	65	110
2. IEEE Symposium on Security and Privacy	53	85
3. USENIX Security Symposium	51	76
4. Annual International Conference on Theory and Applications of Cryptographic Techniques (EUROCRYPT)	48	79
5. IEEE Transactions on Information Forensics and Security	47	61
6. Conference on Advances in cryptology	45	77
7. Network and Distributed System Security Symposium (NDSS)	39	79
8. IEEE Transactions on Dependable and Secure Computing	39	58
9. Theory of Cryptography	34	59
10. International Conference on The Theory and Application of Cryptology and Information Security (ASIACRYPT)	34	58
11. Computers & Security	34	45
12. Workshop on Cryptographic Hardware and Embedded Systems (CHES)	33	45
13. arXiv Cryptography and Security (cs.CR)	31	50
14. International Conference on Practice and Theory in Public Key Cryptography	30	53
15. Computer Security Applications Conference	29	50
16. Symposium On Usable Privacy and Security	29	47
17. European Conference on Research in Computer Security	28	49
18. Journal of Cryptology	28	45
19. International Conference on Financial Cryptography and Data Security	28	40
20. IEEE Computer Security Foundations Symposium	27	40

Dates and citation counts are estimated and are determined automatically by a computer program.

Acronyms are not unique

 dblp.uni-trier.de/db/conf/?prefix=Ee

- EELC - Emergence and Evolution of Linguistic Communication
- EEMMAS - Engineering Environment-Mediated Multi-Agent Systems
- EESSMod @ MoDELS - Experiences and Empirical Studies in Software Modeling
- EEWC - Enterprise Engineering Working Conference
- EEXTT - Efficiency and Effectiveness of XML Tools and Techniques
- EFDBS @ CAiSE - Engineering Federated Database Systems
- Efficiency and Effectiveness of XML Tools and Techniques (EEXTT)
- EFIS/EFDBS - Engineering Federated Information (Database) Systems
- EFTS @ FSE - Engineering Fault Tolerant Systems
- EG-ICE - Intelligent Computing in Engineering and Architecture
- EGC - European Grid Conference
- EGC - Extraction et Gestion des Connaissances
- EGC - Spanish Meeting on Computational Geometry
- EGCDMAS - Electronic Government and Commerce: Design, Modeling, Analysis and Security

Machines cannot read these!

LNCS Forthcoming Proceedings 2013/2014 - © Springer - 25th November, 2013 - Page 2 of 15

January 2014

5 events

04-07	Coimbatore, Tamil Nadu, India	ICDCIT 2014
08-10	Dublin, Ireland	MEEM 2014
13-15	Kolkata, India	ICAA 2014
20-21	San Diego, CA, USA	PADL 2014
25-30	Nový Smokovec, High Tatras, Slovakia	SOFSEM 2014

February 2014

9 events

06-09	Bhubaneswar, India	ICDCIT 2014
13-15	Chennai, India	WALCOM 2014
16-21	Gainesville, FL, USA	LION 8/2014
17-19	Exeter, UK	EWSN 2014
24-26	Muscat, Oman	ICSE 2014
24-26	San Diego, CA, USA	TCC 2014
24-28	San Francisco, CA, USA	CT-RSA 2014 (F)
25-28	Lübeck, Germany	ARCS 2014
26-28	Munich, Germany	ESSoS 2014

LNCS - Conference Acronym Index 1973-2013 - Springer-Verlag Heidelberg - 25th November, 2013 - Page 1 of 89

LNCS - Conference Acronym Index

3

3DPH

3D Physiological Human Workshop
2009 LNCS 5903 Online Version available

A

AAAI Fall Symposium Series WS

AAAI (American Association for Artificial Intelligence) Fall Symposium Series Workshop
1995 LNAI 1458 Online Version available

AAAI-WS

National Conference on Artificial Intelligence Workshop
1995 LNAI 1458 Online Version available

AACC

Asian Applied Computing Conference
2004 LNCS 3285 Online Version available

AADEBUG

International Workshop on Automated and Algorithmic Debugging
1993 LNCS 749 Online Version available

AAECC

Int. Conference/Symposium on Applied Algebra, Algebraic Algorithms, and Error-Correcting Codes
2000 LNCS 5527 Online Version available
2007 LNCS 4851 Online Version available
2006 LNCS 3857 Online Version available
2003 LNCS 2643 Online Version available
2001 LNCS 2227 Online Version available

AA-WS

International Conference on Autonomous Agents Workshop
2000 LNAI 2246 Online Version available
2000 LNAI 1887 Online Version available

AB

Algebraic Biology
2008 LNCS 5147 Online Version available
2007 LNCS 4751 Online Version available

ABIALS

Anticipatory Behavior in Adaptive Learning Systems
2008 LNAI 5499 Online Version available
2006 LNAI 4520 Online Version available

Abstract Data Types

Workshop on the Specification of Abstract Data Types
1995 LNCS 1130 Online Version available
1994 LNCS 906 Online Version available
1992 LNCS 785 Online Version available
1991 LNCS 675 Online Version available
1990 LNCS 555 Online Version available
1987 LNCS 332 Online Version available

ABZ

International Conference on Abstract State Machines, B and Z
2012 LNCS 7316 Online Version available
2010 LNCS 5977 Online Version available
2008 LNCS 5238 Online Version available

AC

Agent Communication
2013 LNAI 8027 Online Version available
2011 LNCS 7218 Online Version available
2005 LNAI 3859 Online Version available
2004 LNAI 3396 Online Version available

Unique Conference Series ID – ORCID for conferences

Vitaliy Yakovyna · Heinrich C. Mayr
Mykola Nikitchenko · Grygoriy Zholtkevych
Aleksander Spivakovsky · Sotiris Batsakis (Eds.)

Communications in Computer and Information Science 594

Information and Communication
Technologies in Education,
Research, and Industrial Applications

11th International Conference, ICTERI 2015
Lviv, Ukraine, May 14–16, 2015
Revised Selected Papers

 Springer

 ICTERI

Edit Conference

Conference Acronym:	ICTERI
Conference Series Name:	International Conference on Information and Communication Technologies in Education, Rese
DBLP:	icteri
Conference City:	Lviv
Conference Country:	Ukraine
Conference State:	
Conference Year:	2015
Conference Start Date:	14-May-2015
Conference End Date:	16-May-2015
Conference Number:	11
Conference Id:	icteri2015
Validation Messages:	

SPRINGER NATURE

Publishing

Search

Help



Bibliographic Series

Conference Series

Search

Unique ConfSeriesID

Conference Series ID

icteri

ICTERI

Conference Acronym

ICTERI

eBook Package Targets

DBLP

icteri

series name ...

Conference Series Name

International Conference on Information and Communication Technologies in Education,



More info about the LOD portal

8,511 proceedings volumes

38



7,616 conferences



15,000



11th Extended Semantic Web Conference

10th Extended Semantic Web Conference

...

1,300 conference series

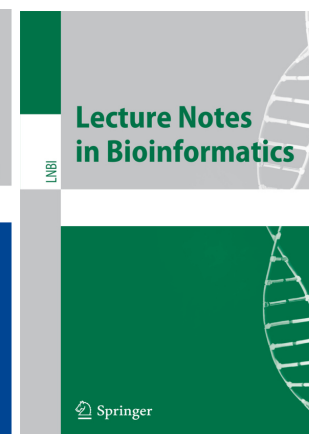
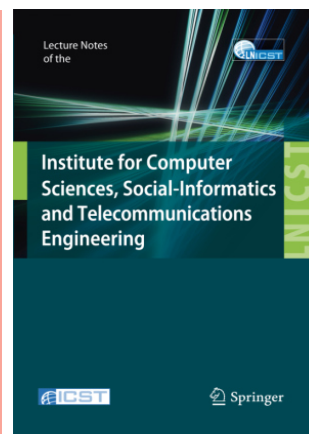
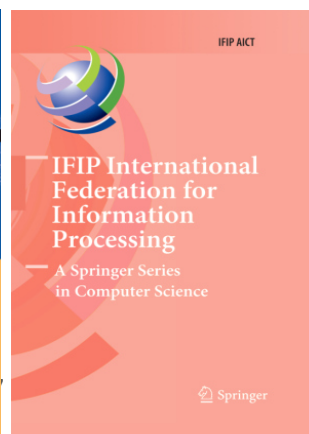
Extended Semantic Web Conference

International Semantic Web Conference

...



Published in:



LOD Portal

International Semantic Web Conference

URI: <http://lod.springer.com/data/confseries/semweb>

Property	Value
Conference series name	• International Semantic Web Conference (en)
Has DBLP ID	• <http://dblp.uni-leipzig.de/conf/semweb/2014/
Type	• Conference series

Scopus

Indexed in Scopus

The Semantic Web – ISWC 2014

URI: <http://lod.springer.com/data/procvolume/978-3-319-11963-2>

Property	Value
Proceedings volume EISBN	• 978-3-319-11964-9 (rdfs:literal)
Proceedings volume ISBN	• 978-3-319-11963-2 (rdfs:literal)
Book DOI	• 10.1007/978-3-319-11964-9 (en)
Book series acronym	• LNCS (rdfs:literal)
Has conference	• <http://lod.springer.com/data/conference/semweb2014>
Available at	• <http://link.springer.com/978-3-319-11963-2>
Is indexed by Scopus	• true (xsd:boolean)
Scopus search date	• 2015-10-30T10:11 (xsd:dateTime)
Proceedings volume subtitle	• 13th International Semantic Web Conference, Riva del Garda, Italy, October 19-23, 2014. Proceedings, Part I (en)
Proceedings volume title	• The Semantic Web – ISWC 2014 (en)
Type	• Proceedings volume
Proceedings volume number	• 8796 (xsd:integer)

Each resource is identified via a **Persistent URI** (resolves to the resource and remains valid over years)

Provides useful info, understandable for machines using open standards (RDF and SPARQL)

Can be linked to other resources in the LOD cloud (DBLP, ACM, IEEE)

Provided by Springer
URI: <http://lod.springer.com/data/rdf/conference/semweb2014>

URI: <http://lod.springer.com/data/rdf/conference/semweb2014>

How it looks in LOD (RDF/Turtle)

```
<http://lod.springer.com/data/conference/semweb2014>
  a                                <http://lod.springer.com/data/ontology/class/Conference> ;
  spr:confAcronym                  "ISWC"@en ;
  spr:confCity                     "Riva del Garda"@en ;
  spr:confCountry                  "Italy"@en ;
  spr:confEndDate                  "2014-10-23"^^xsd:date ;
  spr:confName                     "International Semantic Web Conference"@en ;
  spr:confNumber                   13 ;
  spr:confStartDate                "2014-10-19"^^xsd:date ;
  spr:confYear                     "2014"^^xsd:gYear ;
  spr:hasSeries                    <http://lod.springer.com/data/confseries/semweb> .

<http://lod.springer.com/data/procvolume/978-3-319-11914-4>
  spr:hasConference                <http://lod.springer.com/data/conference/semweb2014> .
```

<http://lod.springer.com/live/> visualization



Main principles

- High-quality data provided directly by the publisher, integral part of existing workflows
- Uniqueness of conference ID is guaranteed by design
- The data is open – provided under CC0 1.0 (Public Domain dedication)
 - researchers are welcome to analyze, link to, etc.
- Providing conference info as Linked Data, as a part of the Web of Data enables:
 - easier access for indexing services, libraries, conf. management systems, research evaluation agencies
- SpringerNature is the first publisher providing metadata about conferences in a structured way

**Can we make science more
accessible and transparent?**

Use cases

- Providing info for indexing services (Scopus, EI, ISI, DBLP)
- Easier access for
 - search engines (Google Scholar gets the same data from SpringerLink),
 - libraries (DNB was interested),
 - conf. management systems,
 - research evaluation agencies.
- Linking from Bookmetrix

Indexing in Scopus

Euro-Par 2015: Parallel Processing

URI of this Resource Map: <http://lod.springer.com/data/procvolume/978-3-662-47665-9>

Scopus

Indexed by Scopus

Euro-Par 2015: Parallel Processing

URI: <http://lod.springer.com/data/procvolume/978-3-662-47665-9>

Property	Value
Proceedings volume EISBN	• 978-3-662-47666-6 (rdfs:literal)
Proceedings volume ISBN	• 978-3-662-47665-9 (rdfs:literal)
Book DOI	• 10.1007/978-3-662-47666-6 (en)
Book series acronym	• LNCS (rdfs:literal)
Has conference	• < http://lod.springer.com/data/conference/icalp2015 >
Available at	• < http://link.springer.com/978-3-662-47665-9 >
Is indexed by Scopus	• true (xsd:boolean)
Scopus search date	• 2015-11-03T08:15 (xsd:dateTime)
Proceedings volume subtitle	• 42nd International Colloquium, ICALP 2015, Kyoto, Japan, July 6-10, 2015, Proceedings, Part II (en)
Proceedings volume title	• Euro-Par 2015: Parallel Processing (en)

Automata, Languages, and Programming

URI of this Resource Map: <http://lod.springer.com/data/procvolume/978-3-662-47665-9>

Scopus

Not indexed by Scopus

Automata, Languages, and Programming

URI: <http://lod.springer.com/data/procvolume/978-3-662-47665-9>

Property	Value
Proceedings volume EISBN	• 978-3-662-47666-6 (rdfs:literal)
Proceedings volume ISBN	• 978-3-662-47665-9 (rdfs:literal)
Book DOI	• 10.1007/978-3-662-47666-6 (en)
Book series acronym	• LNCS (rdfs:literal)
Has conference	• < http://lod.springer.com/data/conference/icalp2015 >
Available at	• < http://link.springer.com/978-3-662-47665-9 >
Is indexed by Scopus	• false (xsd:boolean)
Scopus search date	• 2015-11-03T08:15 (xsd:dateTime)
Proceedings volume subtitle	• 42nd International Colloquium, ICALP 2015, Kyoto, Japan, July 6-10, 2015, Proceedings, Part II (en)
Proceedings volume title	• Automata, Languages, and Programming (en)

Changes in Scopus coverage

06 March 2017

86% indexed

30 November 2015

69% indexed

22 February 2016

80% indexed

Statistics

We have 1313 conference series

We have 7686 conferences

We have 8590 proceedings volumes

Scopus indexed: 5982 ([download as CSV](#))

Scopus not indexed: 2608 ([download as CSV](#))

Powered by [Pubby](#). Best viewed with a [CSS3](#) capable browser.

Statistics

We have 1349 conference series

We have 7854 conferences

We have 8782 proceedings volumes

Scopus indexed: 7005 ([download as CSV](#))

Scopus not indexed: 1777 ([download as CSV](#))

Ad-hoc analytics

city	country	volumeCnt	confCnt
"Beijing"@en	"China"@en	146	123
"Paris"@en	"France"@en	121	119
"Vienna"@en	"Austria"@en	113	103
"Berlin"@en	"Germany"@en	106	99
"Barcelona"@en	"Spain"@en	87	80
"Rome"@en	"Italy"@en	79	74
"London"@en	"UK"@en	74	71
"Prague"@en	"Czech Republic"@en	82	69
"Amsterdam"@en	"The Netherlands"@en	70	66
"Hong Kong"@en	"China"@en	71	64
"Singapore"@en	"Singapore"@en	78	62
"Budapest"@en	"Hungary"@en	65	61
"Shanghai"@en	"China"@en	77	60
"Tokyo"@en	"Japan"@en	64	59
"Seoul"@en	"South Korea"@en	61	58
"Toulouse"@en	"France"@en	58	54
"Lisbon"@en	"Portugal"@en	59	53
"Zurich"@en	"Switzerland"@en	64	53
"Edinburgh"@en	"UK"@en	52	52
"Montreal, QC"@en	"Canada"@en	57	51
"Madrid"@en	"Spain"@en	52	50
"Athens"@en	"Greece"@en	54	50
"Toronto, ON"@en	"Canada"@en	49	47
"Copenhagen"@en	"Denmark"@en	54	47
"Sydney, NSW"@en	"Australia"@en	51	45
"Santa Barbara, CA"@en	"USA"@en	47	44
"Heraklion, Crete"@en	"Greece"@en	71	44
"Pisa"@en	"Italy"@en	46	43
"Cambridge"@en	"UK"@en	42	41
"Grenoble"@en	"France"@en	43	41
"Jeju Island"@en	"South Korea"@en	44	41
"Melbourne, VIC"@en	"Australia"@en	45	40
"New York, NY"@en	"USA"@en	40	38
"Munich"@en	"Germany"@en	41	38
"Valencia"@en	"Spain"@en	41	36
"Warsaw"@en	"Poland"@en	42	35
"Venice"@en	"Italy"@en	34	33

The role of peer review

2

...or broader implications of one STSM



Recap of Mario's work: creating a dataset about peer review processes of the conferences



In cooperation with [PEERE project](#) – mission on [creating a dataset of peer review in computer science conferences published by Springer](#)

Text mining of ~10,000 prefaces from the 5 CS proceedings series (LNCS+)

- Text mined fields conference chairs use:
 - peer review type,
 - num submitted / accepted papers , acceptance rate
 - num reviewers / paper ...
- For new conference proceedings, since June 2015, we ask editors to fill in a word questionnaire or an electronic form (sometime in 2017) to provide such data.
 - 1 denial to provide such data in 2015
- additionally learnt
 - what adjectives people use to describe peer review?
 - do they use additional reviewers?
 - which submission systems do they use? (EasyChair, CMT, OCS, ...)
 - learnt about complex structures – shepherding, etc

Proceedings of IFIPTM 2008: Joint iTrust and PST Conferences on Privacy, Trust Management and Security, June 18-20, 2008, Trondheim, Norway

Preface

This volume contains the proceedings of the IFIPTM 2008, the Joint iTrust and PST Conferences on Privacy, Trust Management and Security, held in Trondheim, Norway from June 18 to June 20, 2008.

IFIPTM 2008 provides a truly global platform for the reporting of research, development, policy and practice in the interdependent areas of Privacy, Security, and Trust. Following the traditions inherited from the highly successful iTrust and PST conference series, IFIPTM 2008 focuses on trust, privacy and security from multidisciplinary perspectives. The conference is an arena for discussion about relevant problems from both research and practice in the areas of academia, business, and government.

IFIPTM 2008 is an open IFIP conference, which only accepts contributed papers, so all papers in these proceedings have passed strict peer review. The program of the conference features both theoretical research papers and reports of real world case studies. IFIPTM 2008 received 62 submissions. The program committee selected 22 papers for presentation and inclusion in the proceedings. In addition, the program and the proceedings include 3 demo descriptions.

Some obstacles...

we had a tremendous amount / many submission

approximately 237 submission

more than 300 submissions

almost 90 submissions

at least/minimum 3 reviewers

Each paper was reviewed by 3 or 4 referees

What's next?

- Machine –processable description of peer review => more transparency
- We'll add them all to lod.springer.com, CC0
- We collect those systematically now
 - ...but do not enforce it

Home > Blog > Taking the "con" out of conferences

🕒 5 minute read.

Taking the “con” out of conferences



[Geoffrey Bilder](#) – 2017 February 15
In [DOIs](#), [Identifiers](#)

TL;DR

Crossref and DataCite are forming a working group to explore conference identifiers and project identifiers. If you are interested in joining this working group *and* in doing some actual work for it, please contact us at community@crossref.org and include the text **conference identifiers WG** in the subject heading.

CrossRef working group

- Scope of the group for (1) Unique Conference IDs and (2) Metadata on peer-review process:
 - establish a process for publishers to register data
 - define fields/items of metadata records
 - define scope for conference with no proceedings, informal workshops, and other complicated cases
- (3) machine-processable data about PCs?
- Important note: we need to make clear that this is
 - about sharing open reliable metadata (transparency)
 - not about creating a conference quality metric
- Can we "force" conference organizers to provide data?
 - ultimately the choice of the conference organizers, but we can encourage them
 - if done right, it could become a de-facto standard for all serious conference organizers

Program Committee

Program Chairs

Valentina Presutti (STLab, ISTC-CNR, IT)
Oscar Corcho (UPM, ES)

Research Track: **Ontologies**

Chairs

Aldo Gangemi (LIPN-Paris 13-Sorbonne Cité, FR and STLab ISTC-CNR, IT)
Eva Blomqvist (Linköping University, SE)

Research Track: **Reasoning**

Chairs

Pascal Hitzler (Wright State University Dayton, Ohio-USA)
Luciano Serafini (FBK, Trento, IT)

Increasing complexity – what about topics?

3



Enrico Motta, Francesco Osborne and Angelo Salatino

Knowledge Media Institute
The Open University
United Kingdom

The Smart Topic Miner

The **Smart Topic Miner (STM)** is a semantic application designed to support the **Springer Nature Computer Science editorial team** in classifying scholarly publications.



WELCOME TO THE SMART TOPIC MINER DEMO

Please select a proceedings book from '[Example Springer Nature Proceedings](#)' and click the Submit button.

You can try the following options.

Topic Granularity: Granularity goes from 1 to 5 (default is 3) and affects the size of the topic set.

Show explanation: It displays near each topic (e.g., Semantic Web) the list of terms that were used to infer it (e.g., “OWL”, “linked data”, “ontology matching”).

Show input keyword distribution: It shows the full list of keywords extracted from the proceedings.

Advanced analytics: It provides additional information, such as the percentage coverage of the outcome and the list of papers associated with their keywords and topics.

Smart Topic Miner is described in: *Osborne, Francesco; Salatino, Angelo; Birukou, Aliaksandr and Motta, Enrico (2016). [Automatic Classification of Springer Nature Proceedings with Smart Topic Miner](#). In: The 15th International Semantic Web Conference, 17-21 October 2016, Kobe, Japan.*

For information and questions, please contact: francesco.osborne@open.ac.uk

SMART TOPIC MINER

Order

Publications

☒ Use tree-list
☐ Show explanation
☐ Show input keyword distribution
☐ Advanced analytics

File input

Choose File
No file chosen

Accepting only .zip and .xml

Additional keywords

Add here your additional keywords separated by comma.

Topic Granularity: 3

[\[+\] Example Springer Nature Proceedings](#)

[\[+\] Expert settings](#)

Submit

Uses ad-hoc CS taxonomy

- We automatically generated a large-scale ontology consist of about **15,000 topics** linked by about **70,000 semantic relationships**.
- It included **very granular** and low level research areas, e.g., Linked open data, Probabilistic packet marking, Synthetic aperture radar imaging
- It allows for a **research topic to have multiple super-areas** – i.e., the taxonomic structure is a graph rather than a tree, e.g., Inductive Logic Programming is a sub-area of both Machine Learning and Logic Programming.

1: Computer Science (470759)

2: artificial intelligence (99054)
 2: pattern recognition (51662)
 2: robotics (50603)
 2: image processing (76258)
 2: internet (86534)
 2: software design (15491)
 2: hardware (13831)
 2: computer operating systems (15685)
 2: wireless telecommunication systems (58798)
 2: computer networks (42536)
 2: automata theory (11918)
 2: bioinformatics (34999)
 2: parallel processing systems (22012)
 2: problem solving (90449)
 2: information technology (70559)
 2: database systems (53831)
 2: data mining (40080)
 2: graph theory (37087)
 2: information retrieval (46471)
 2: software engineering (46141)
 2: cryptography (29078)
 2: distributed computer systems (36749)
 2: virtual reality (36919)
 2: computer architecture (35716)
 2: knowledge management (20886)
 2: intelligent systems (26388)
 2: computer programming (25218)
 2: human-computer interaction (31645)

2: artificial intelligence (99054)

3: learning systems (54304)
 3: pattern recognition, automated (9921)
 3: decision theory (15561)
 3: intelligent control (14021)
 3: natural language processing systems (14688)
 3: formal logic (12949)
 3: inference engines (8585)
 3: cellular automata (6060)
 3: medical computing (5641)
 3: knowledge based systems (25465)
 3: bayesian networks (14364)
 3: genetic algorithms (45469)
 3: neural networks (94396)
 3: multi-agent systems (22343)
 [...]

2: virtual reality (36919)

3: intelligent virtual agents (618)
 3: virtual humans (734)
 3: virtual community (1016)
 3: virtual environments (3483)
 3: virtual prototyping (614)
 3: virtual spaces (611)
 3: virtual laboratories (554)
 3: distributed virtual environments (270)
 3: virtual learning environments (361)
 [...]

Deeper levels in the smart home area

1: Computer Science

2: +human computer interaction

3: +user interfaces (43973)

4: +ubiquitous computing

5: +intelligent buildings

6: +building management system (75)

6: +intelligent home (128)

6: +smart homes (1539)

7: +home automation (518)

8: +home automation systems (128)

7: +smart-home system (124)

7: +ambient assisted living -- *also under 'ambient intelligence' / 'health care' / etc*

7: (ct) *assisted living -- *also under 'intelligent buildings'*

6: +building automation (267)

6: (ct) *home health care (174)

[...]

5: +ubiquitous computing environment (428)

We use this for classifying conference proceedings

Book Title: Semantics, Analytics, Visualization. Enhancing Scholarly Data (*vn: 9792*)

SIGNIFICANT TOPICS:

Tree List:

- (1) Computer Science [10]
 - (2) Artificial intelligence [5]
- (2) Semantics [11]
 - (3) Ontology [5]
 - (3) Semantic web [5]
 - (3) Natural language processing [4]
 - (3) Xml [3]
- (3) World wide web [7]
 - (4) *Semantic web* [5]
 - (4) Search engines [3]
 - (4) *Xml* [3]
- (3) Computational linguistics [3]
 - (4) *Natural language processing* [4]
- (k) Language [3]

STM provides explanations

Book Title: Semantics, Analytics, Visualization. Enhancing Scholarly Data (vn: 9792)

SIGNIFICANT TOPICS:

Tree List:

- (1) **Computer Science** [10] | {*rdf*(2), *text mining*(2), *open access*(2), *natural language processing*(2), *natural language*(2), *network structure*(1), *clustering*(1), *hierarchical clustering*(1), *clustering techniques*(1), *indexing*(1), *reusability*(1), *linked data*(1), *web pages*(1), *semantic web*(1), *user profiles*(1), *knowledge base*(1), *knowledge discovery*(1), *user interface*(1), *semantic search*(1), *software framework*(1), *information extraction*(1), *html5*(1), *xml*(1), *javascript*(1), *text summarization*(1)}
- (2) **Artificial intelligence** [5] | {*text mining*(2), *natural language processing*(2), *network structure*(1), *knowledge base*(1), *knowledge discovery*(1), *information extraction*(1), *text summarization*(1)}
- (2) **Semantics** [11] | {*semantic*(8), *rdf*(2), *ontology*(2), *natural language processing*(2), *natural language*(2), *metadata*(2), *reusability*(1), *linked data*(1), *ontologies*(1), *semantic relations*(1), *semantic web*(1), *user profiles*(1), *semantic search*(1), *information extraction*(1), *html5*(1), *xml*(1), *javascript*(1), *text summarization*(1)}
- (3) **Ontology** [5] | {*ontology*(2), *ontologies*(1), *semantic relations*(1), *user profiles*(1), *semantic search*(1), *information extraction*(1)}
- (3) **Semantic web** [5] | {*rdf*(2), *linked data*(1), *semantic web*(1), *semantic search*(1)}
- (3) **Natural language processing** [4] | {*natural language processing*(2), *text summarization*(1)}
- (3) **Xml** [3] | {*rdf*(2), *html5*(1), *xml*(1)}
- (3) **World wide web** [7] | {*rdf*(2), *open access*(2), *linked data*(1), *web pages*(1), *semantic web*(1), *user profiles*(1), *semantic search*(1), *html5*(1), *xml*(1), *javascript*(1)}
- (4) **Semantic web** [5] | {*rdf*(2), *linked data*(1), *semantic web*(1), *semantic search*(1)}
- (4) **Search engines** [3] | {*web pages*(1), *user profiles*(1), *semantic search*(1)}
- (4) **Xml** [3] | {*rdf*(2), *html5*(1), *xml*(1)}
- (3) **Computational linguistics** [3] | {*text mining*(2), *natural language processing*(2), *information extraction*(1), *text summarization*(1)}
- (4) **Natural language processing** [4] | {*natural language processing*(2), *text summarization*(1)}
- (k) **Language** [3] | {*language*(3), *language processing*(1)}

Next steps

4

Adding ERA, CCF and QUALIS rankings

O que é Qualis?

Qualis é o conjunto de procedimentos utilizados pela [Capes](#) para estratificação da qualidade da produção intelectual dos programas de pós-graduação. A classificação de periódicos é realizada pelas áreas de avaliação e passa por processo anual de atualização. Esses veículos são enquadrados em estratos indicativos da qualidade - A1, o mais elevado; A2; B1; B2; B3; B4; B5; C - com peso zero.

Referência: [CAPES - Classificação da Produção Intelectual](#)

As avaliações de periódicos e conferências que constam nesta página referem-se à avaliação 2010-2012 da área de Ciência da Computação. Mais detalhes sobre o cálculo dos estratos podem ser encontrados na [página oficial do QUALIS-CAPEs](#)

Consulta a eventos e periódicos

Sigla/ISSN	Título da publicação	Estrato	Tipo
<input type="text"/>	<input type="text"/>	Todos ▼	Confe ▼
3DIM	INTERNATIONAL CONFERENCE ON 3 - D DIGITAL IMAGING AND MODELING	B1	Conferência
3DUI	IEEE SYMPOSIUM ON 3D USER INTERFACES	B2	Conferência
3PGCIC	INTERNATIONAL CONFERENCE ON P2P, PARALLEL, GRID, CLOUD, AND INTERNET COMPUTING	B4	Conferência
AAAI	CONFERENCE ON ARTIFICIAL INTELLIGENCE	A1	Conferência
	ALGORITHMS, AND ERROR CORRECTING CODES	B2	Conferência
	MANAGEMENT	B3	Conferência
	APPLICATIONS OF INDUCTIVE PROGRAMMING	B5	Conferência
	CONFERENCE ON AUTONOMOUS AGENTS AND MULTIAGENTS SYSTEMS	A1	Conferência
	INTELLIGENT LEARNING SYSTEMS	B3	Conferência
	SHOP	B4	Conferência



- Unranked - A conference for which no ranking decision has been made

RTAL HERE

t provides assessments of major
e managed by the CORE
to time by a subcommittee

es:
ine area
discipline area
e area
num standards
s primarily Australians and New

Plans for 2017 (as of March)

34

Done in 2016

- Adding conferences from other disciplines (engineering, math) for new proceedings
- Indexing checks for EI COMPENDEX
- Added books (not all, only rather recent) to the portal

Ongoing

- Adding data about ~2000 conferences published only several times
- Adding chapter-level data, including authors, affiliations
- Uploading information about peer review processes
- Linking to DBLP and Bookmetrix

Planned

- Adding data about Elsevier conferences
- Indexing checks for ISI Conference Proceedings index



LOD.Springer.com is becoming....

Scigraph.com

Scigraph is the Springer Nature linked data platform that enables users to search for things, documents, people, places and relations that are of importance to the science and scholarly domain.

Coming Soon!

Research (and non-) questions one can answer

1. Is there correlation between peer review properties and impact (citations, altmetrics, etc.)?
2. Do different communities have different peer review culture?
 - anecdotally, pattern recognition has much higher acc rate than softw. eng.
3. Can we see any correlation between peer review, num submissions, etc. and the age of the conference series?
4. ...
5. ...



PEERE dissemination – call for interesting results



April 18, 2017 – April 21, 2017

6th International Scientific and Practical Conference “World-class scientific publication - 2017: Best practices in preparation and promotion of publications”.

Location:

Moscow, Vega Hotel & Convention Center, Izmaylovskoye highway, b. 71/3V.

Organizers:

- [Association of Science Editors and Publishers](#), (ASEP), Moscow, Russia;
- [Non-Profit Partnership "National Electronic Information Consortium"](#), (NP "NEICON"), Moscow, Russia;

Co-organizers:

- [Elsevier](#), Amsterdam, the Netherlands;
- [Clarivate Analytics](#), Philadelphia, USA;
- [“Scientific Electronic Library” LLC](#) (SEL), Moscow, Russia

...

Simple rules

1. Send 1 slide with highlights of your research for non-experts + your name, affiliation and link to paper (if applicable)
2. (optional) and 1-2 slides with more details (I'll add them at the end of the presentation)

Thank you

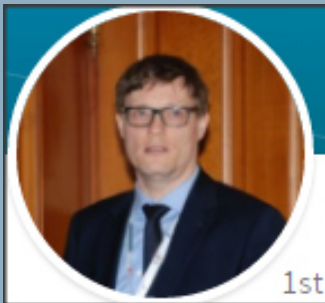
Special thanks to

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net wise


SPRINGER NATURE

Preview 2017: integration of Conf Info with Bookmetrix



Bookmetrix tracks social and scholarly activity around published books

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THE SEMANTIC WEB – ISWC 2002
– 2002

EDITORS Ian Horrocks • James Hendler

ISBN 9783540480051 (online) • 9783540437604

DOI 10.1007/3-540-48005-6

DISCIPLINES Computer Science

SUBDISCIPLINES AI • Communication Networks • Database Management & Information Retrieval • Theoretical Computer Science

LOC SUBJECTS Computer science • Computer Communication Networks • Artificial intelligence • Database management • Information storage and retrieval

CONFERENCES International Semantic Web Conference (2002)

[VIEW ON PUBLISHER SITE](#) [PURCHASE EBOOK](#)

ALL ACTIVITY FOR BOOK:

The Semantic Web — ISWC 2002

CITATIONS 171	MENTIONS 0	READERS 495	DOWNLOADS 39k	REVIEWS 0
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CROSSREF CITATIONS SUMMARY

Showing 1–20 of 171 total citations.

2017

[Proceedings of the First International Conference on Intelligent Computing and Communication](#)
Book with ISBN 9789811020346

[Intelligent Distributed Computing X](#)
Book with ISBN 9783319488288

[Advances in Big Data](#)
Book with ISBN 9783319478975

[MESCO \(MEat Supply Chain Ontology\): An ontology for supporting traceability](#)

SHOW ACTIVITY FOR:

Lenovo Battery:
Charging (92%); 1:13 hour to fully charge

CrossMark for peer review process of a conference



This is in cooperation with [PEERE project](#). The fields have been mined from 10,000 conference prefaces.

The fields will be discussed within the CrossRef working group. Such info will be provided by conference organizers.

Label	Meaning	Example
peerReviewType	single-blind, double-blind, open, other	single blind
confManagementSystem	EasyChair, CMT, etc.	OCS
submissionsSentForReview	The number of papers sent for peer review. Does not include straightforward rejects by the PC chairs due to out-of-scope or other reasons	100
fullPapersAccepted	The number of full papers accepted.	30
shortPapersAccepted	The number of short papers accepted.	15
posterPapersAccepted	The number of poster papers accepted.	7
accRateFullPapersPerc	The number of full papers/The number of submissions sent for review * 100	30
avgNumReviewsPerPaper	The number of reviews / the number of submissions sent for review.	3.25
avgNumPapersPerReviewer	The number of papers each reviewer has to review on average.	5.5
extReviewersInvolved	Were external reviewers involved?	yes
additionalInfoOnReviewProcess	Any additional information provided about the peer review process by the organizers.	"Short papers underwent shepherding process and 5 out of 10 were accepted as full papers."

STM Approach – 1 *Topic extraction*

The initial keywords are **enriched** with terms **extracted from the publications** and then **mapped** to a list of research areas in the CSO ontology;

Initial Keywords (from authors and editors)

linked data:3, relational constraints:1, semantical regularizations:1, question answering:1, graph traversal:1, non-aggregation questions:1, implicit information:1, knowledge base completion:1, dbpedia:1, recommender system:1, relation extraction:1, weakly supervised:1, baidu encyclopedia:1, svm:1, path ranking:1, medical events:1, competitor mining:1, description logics:1, multi-strategy learning:1, distant supervision:1, relation reasoning:1, non-standard reasoning services:1, concept similarity measures:1, semantic data:1, medical guidelines:1, rdf:1, prolog preference profile:1, similarity measure:1, ontology development:1, knowledge representation:1, graph simplification:1, rdf visualization:1, triple ranking:1, sparql-rank:1, rank-join operator:1, "shaowei" (稍微 'a little'):1, minimal degree adverb:1, a little:1, rdf native storage:1, news analysis:1, meta-data extraction:1, database integration:1, elderly nursing care:1 [...]

Enriched Keywords (extracted from abstract, titles, etc)

semantic:24, rdf:7, applications:5, semantic web:5, knowledge base:4, linked data:4, ontology:4, ontologies:4, language:3, knowledge bases:3, algorithms:2, integration:2, architecture:2, semantics:2, knowledge management:2, query answering:2, recommendation:2, question answering system:2, semantic similarity:2, question answering:2, vocabulary:2, svm:1, graph traversal:1, information needs:1, path ranking:1, baidu encyclopedia:1, non-aggregation questions:1, support vector machine:1, implicit information:1, knowledge base completion:1, relational constraints:1, semantical regularizations:1, support vector machine (svm):1, machine learning:1, support vector:1, facts:1, logic programming:1, multi-strategy learning:1, distant supervision:1, competitor mining:1, lossy compression:1, comprehensive evaluation:1, relation reasoning:1, websites:1, competition:1, decision support:1, learning algorithm:1 [...]

CSO Ontology topics

(1) Computer Science [21]
 --- (2) Internet [18]
 ----- (3) World wide web [16]
 ----- (4) Semantic web [16]
 ----- (5) Rdf [7]
 ----- (5) Linked data [5]
 ----- (3) NLP systems [3]
 ----- (4) Question answering [2]
 ----- (3) Recommender systems [2]
 --- (2) Artificial intelligence [12]
 --- (3) Knowledge based systems [8]
 ----- (4) Knowledge representation [4]
 ----- (5) Description logic [3]
 ----- (3) Machine learning [4]
 (1) Semantics [24]
 --- (2) Ontology [10]
 --- (2) Metadata [7]
 ----- (3) Rdf [7]
 --- (2) Semantic web [16]
 (1) Language [5]
 --- (2) Vocabulary [2] [...]

LNCS Stats since 1.1.1973 till 29.08.2016

- Number of proceedings volumes published in CS: ~11,000
- Number of conference series: ~2,100
- Number of editors: ~33,500
- Number of authors: **~928,000**
- Number of pages: ~5,000,000
- Number of papers: ~315,000
- Share of books (till Dec 2015): **6%**
- Share of downloads (till Dec 2015): **14%**

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