WELCOME!





The Fifteenth International Semantic Web Conference

Kobe, Hyōgo Prefecture, Japan

https://upload.wikimedia.org/wikipedia/commons/4/41/Amsterdam_at_Kobe10s3872.jpg

Welcome to ISWC 2016!



Yolanda Gil

University of Southern California, US 30 Organizing Committee members 100 event organizers □ 425 reviewers 430 participants 260 presentations □ 5 days of great fun Townhall meeting: Wednesday 5pm-6pm

Welcome to Kobe!



Hideaki Takeda

National Institute of Informatics, Japan

Yoshinobu Kitamura, Ritsumeikan University

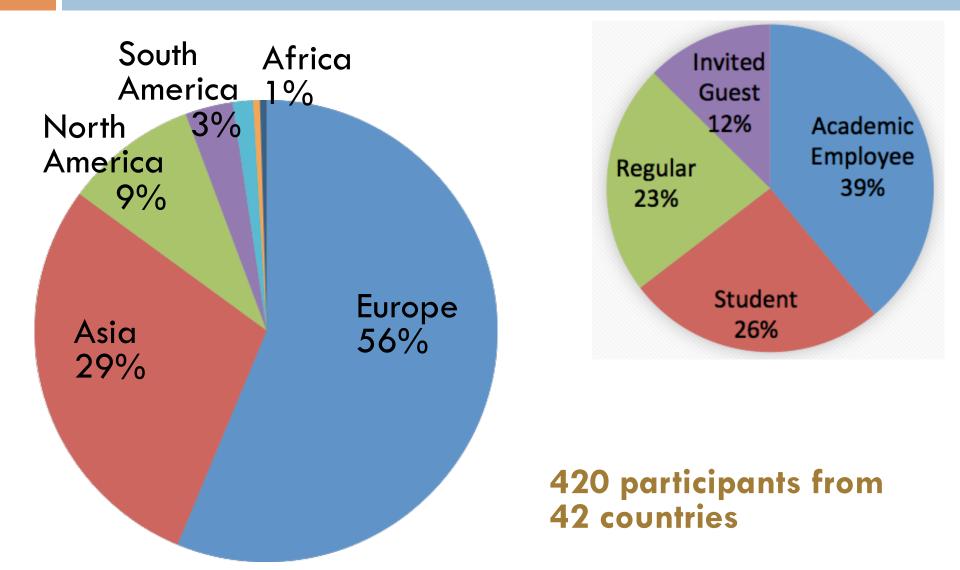
Ikki Ohmukai, National Institute of Informatics

Kouji Kozaki, Osaka University

Rathachai Chawuthai, National Institute of Informatics

Yu Asano, Hitachi Naoki Fukuta, Shizuoka University Ryutaro Ichise, National Institute of Informatics Nobuyuki Igata, Fujitsu Laboratories Makoto Iwayama, Hitachi Fumihiro Kato, National Institute of Informatics Takahiro Kawamura, Japan Science and Technology Agency Seiji Koide, National Institute of Informatics / Ontolonomy Yusuke Komiyama, National Institute of Informatics Fuyuko Matsumura, Aoyama Gakuin University Mitsunori Matsushita, Kansai University Riichiro Mizoguchi, Japan Advanced Institute of Science and Technology Takeshi Morita, Keio University Shinichi Nagano, Toshiba Masahide Nakamura, Kobe University Sachio Saiki, Kobe University Shun Shiramatsu, Nagoya Institute of Technology Takahira Yamaguchi, Keio University

ISWC 2016 Participants



Thank You ISWC 2016 Sponsors!



Hitachi Ltd, Japan

The Open University, UK

ISWC: From Germinal Ideas to Fruition

Germinal ideas: Workshops + Posters + Lightning talks

Maturing: Workshop presentations + Tutorials + Demos

Fruition: Paper tracks + Demos + Journal track

Workshops and Tutorials

- 16 workshops + 5 tutorials
- Workshop reports Friday at 3:50pm-4:50pm



Chiara Ghidini

Fondazione Bruno Kessler, Italy



Heiner Stuckenschmidt University of Mannheim, Germany

Invited Speakers



Kathleen McKeown

Columbia University, US



Christian Bizer

University of Mannheim, Germany



Hiroaki Kitano

Sony Computer Science Labs, Okinawa Institute of Science and Technology, and Systems Biology Institute, Japan

ISWC: From Research to Practice

- Research papers track
- Resource papers track
 - Ontologies, benchmarking, replication
- Application papers track
 - Emerging + In-Use + Industrial
- New this year: Journal papers track
- 22 sessions, mixing papers from all tracks

Research Papers Track



Paul Groth

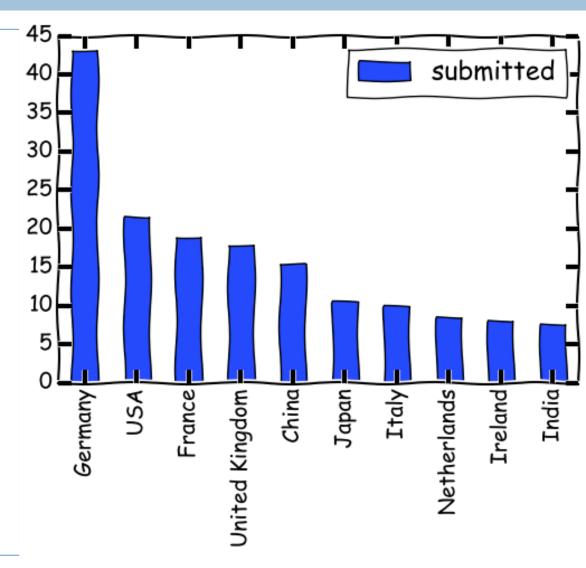
Elsevier Labs, Netherlands



Elena Simperl University of Southampton, UK

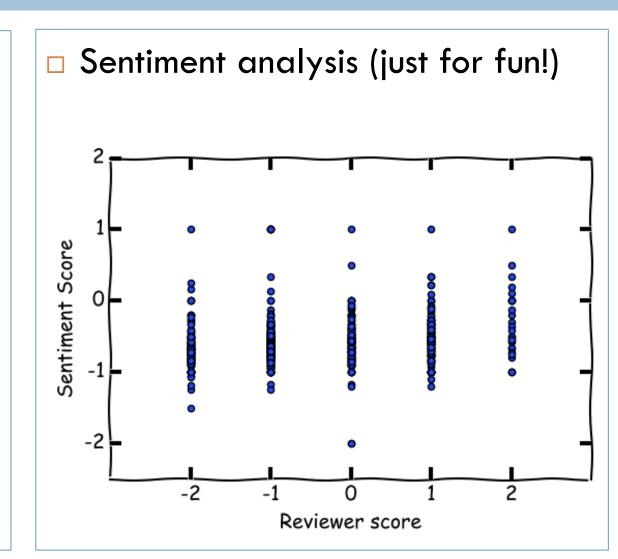
Research Papers Track: Statistics

- 212 submissions
 - 40 more submissions than 2015
- 17 senior PC members, 159 PC, 121 reviewers
- Each submission:
 - 3 reviews
 - Author rebuttal
 - 1 metareview
- New this year: additional review structure
 - Yeah for bullets!



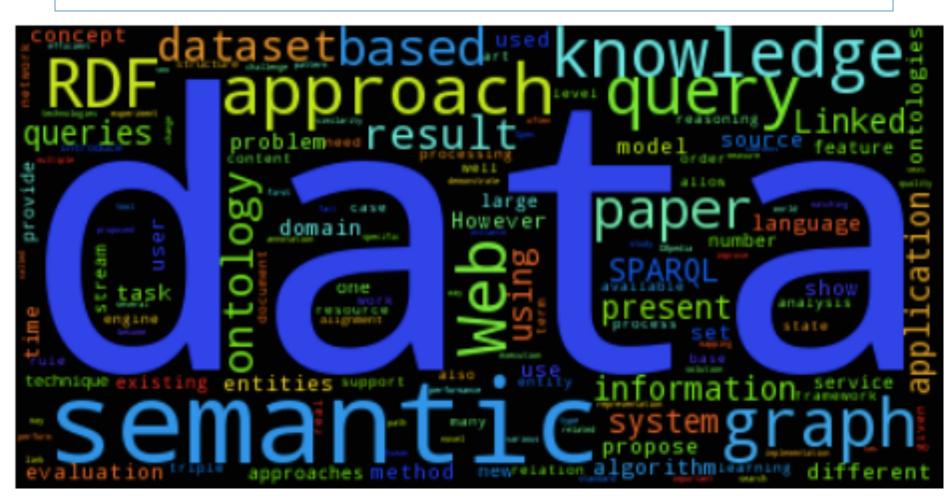
Research Papers Track: Reviews

664 total reviews □ Review length (in sentences) 30 mean 20 std 2 **min 25%** 17 **50%** 25 38 □ 75% 163 max Review Reading Level: between 9th and 10th grade



Research Papers Track: Papers Presentations

□ 39 papers accepted



Research Papers Track: Best Reviewer Award

- □ Aidan Hogan, Universidad de Chile, Chile
- Benedikt Kämpgen, FZI Forschungszentrum Informatik, Germany

Research Papers Track: Nominees for Best Paper Award

Renzo Angles and Claudio Gutierrez

"The multiset semantics of SPARQL patterns"

Linhong Zhu, Majid Ghasemi-Gol, Pedro Szekely, Aram Galstyan and Craig Knoblock

"Unsupervised Entity Resolution on Multi-type Graphs"

Research Papers Track: Nominees for Best Student Paper Award

- Sebastian Neumaier, Jürgen Umbrich, Josiane Xavier Parreira and Axel Polleres
 - "Multi-level Semantic Labelling of Numerical Values"

Lei Zhang and Achim Rettinger

"A Probabilistic Model for Time-Aware Entity Recommendation"

Resources Papers Track



Alasdair Gray

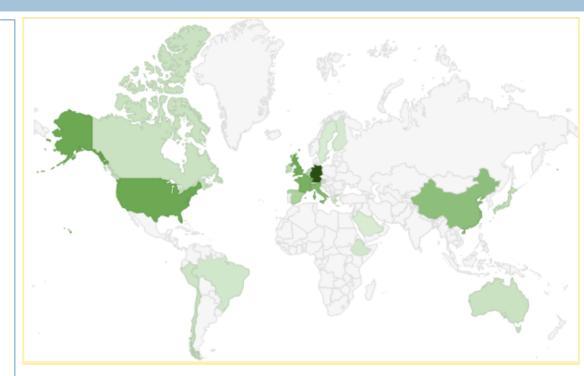
Heriot-Watt University, UK



Marta Sabou Vienna Institute of Technology, Austria

Resources Papers Track: Statistics

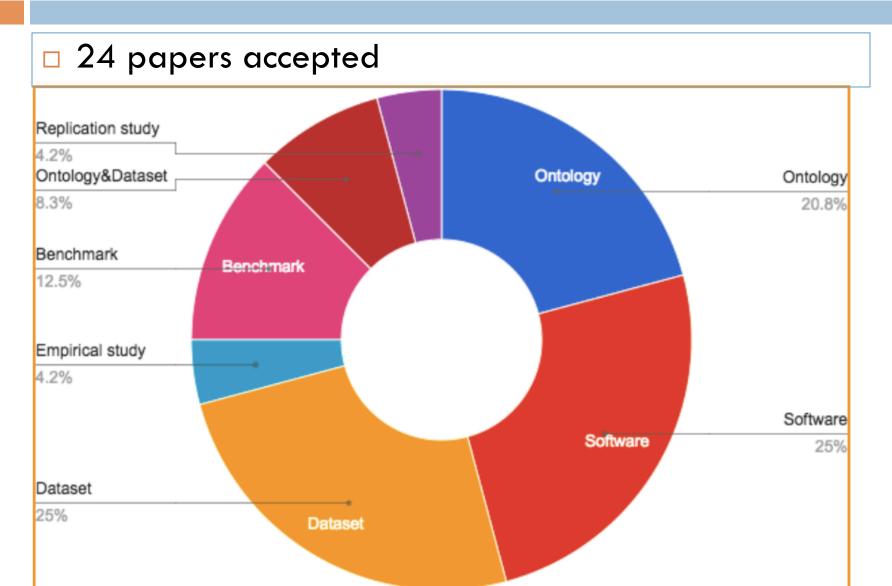
- □ 71 submissions
- 57 PC, 24 additional reviewers
- Total: 220 reviews
- New this year:
 - Resource permanent
 URI in paper abstract
 - Review of resource and paper
 - Structured reviews focusing on resource sharing



Author nationalities:

Germany 59 USA 29 United Kingdom 28 France 26 Italy 23 Ching 20

Resource Papers Track: Paper Presentations



Resources Papers Track: Best Reviewer Award

Vinh Nguyen, Kno.e.sis Center, Wright State University, US

Peter Wetz, TU Wien, Austria

Resources Papers Track: Nominees for Best Paper Award

- Heshan Du, Vania Dimitrova, Derek Magee, Anthony Cohn, Ross Stirling, Giulio Curioni, Barry Clarke and Helen Reeves
 - "An Ontology of Soil Properties and Processes"
- Ivan Ermilov, Jens Lehmann, Michael Martin and Sören Auer
 - "LODStats: The Data Web Census Dataset"
- Bijan Parsia, Nicolas Matentzoglu, Rafael S.
 Gonçalves, Birte Glimm and Andreas Steigmiller
 "The OWL Reasoner Evaluation (ORE) 2015 Resources"

Resources Papers Track: Nominees for Best Student Paper Award

Ivan Ermilov, Jens Lehmann, Michael Martin and Sören Auer

- "LODStats: The Data Web Census Dataset"
- (Also up for the best paper award)

Monika Solanki, Bojan Božić, Markus Freudenberg, Dimitris Kontokostas, Christian Dirschl and Rob Brennan

"Enabling combined software and data engineering at Web-scale: The ALIGNED suite of ontologies"

Applications Papers Track

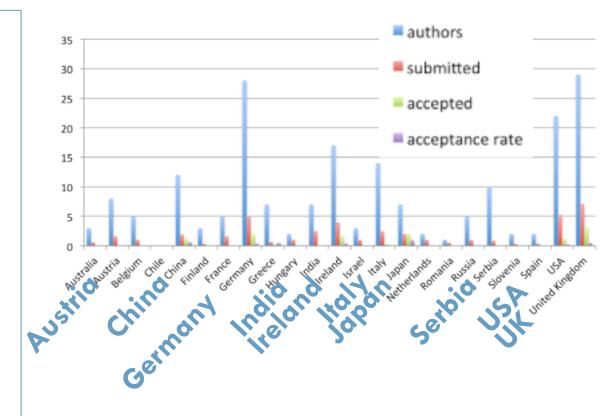


Freddy Lecue Accenture Labs, Ireland INRIA, France

Markus Krötzsch TU Dresden, Germany

Applications Papers Track: Statistics

- 43 submissions
 - 23 Emerging Applications
 - 15 In-Use Applications
 - 5 Industry Applications
- 31 PC, 15 additional reviewers
- Total: 132 reviews
- New this year:
 - 3 categories indicating degree of use/utility



Applications Papers Track: Paper Presentations

- 12 papers accepted
 - 7 Emerging Application
 - 4 In-Use Application
 - 1 Industry



Applications Papers Track: Best Reviewer Award

Mauro Dragoni, Fondazione Bruno Kessler, Italy

□ Aidan Hogan, Universidad de Chile, Chile

Applications Papers Track: Nominees for Best Paper Award

- Mihael Arcan, Mauro Dragoni and Paul Buitelaar
 - "Translating Ontologies in a Real-World Setting with ESSOT"
- Robert Piro, Ian Horrocks, Peter Hendler, Yavor Nenov, Boris Motik, Michael Rossman and Scott Kimberly
 - "Semantic Technologies for Data Analysis in Health Care"
- Vanessa Lopez, Pierpaolo Tommasi, Spyros Kotoulas and Jiewen Wu
 - "QuerioDALI: Question Answering over Dynamic and Linked Knowledge Graphs"
- Kavitha Srinivas, Julian Dolby, Achille Fokoue, Mariano Rodríguez Muro and Wen Sun
 - "Extending SPARQL for Data Analytic Tasks"

Journal Track





Abraham Bernstein

University of Zurich, Switzerland

Pascal Hitzler

Wright State University, US

Guus Schreiber

VU University Amsterdam, Netherlands

Journal Track

New this year!

- An opportunity for authors to present to the community
- Procedure
 - Authors self-nominate
 - Eligibility
 - In print in 2015/2016 (by April) or pre-press website
 - Not previously presented at ISWC or ESWC
 - Vote by the editorial board / area editors

- 6 selected papers from
 Journal of Web
 Semantics
- 6 selected papers from Semantic Web Journal

Posters and Demos Track



Takahiro Kawamura

Japan Science and Technology Agency, Japan



Heiko Paulheim University of Mannheim, Germany

Posters and Demos Track

- Posters: 66 submissions
 - 55 accepted
- Demos: 49 submissions
 - 47 accepted
- Minute madness: 45 secs
 Wednesday 3:50pm-5:10pm
 Poster and demos
 - session:
 - Wednesday 6pm-9pm

- Best poster and best demo award selected by PC and YOU
 - Voting code in your conference bag!
 - One vote for Best Poster
 - One vote for Best Demo
- Proceedings on-line
 - http://ceur-ws.org/ Vol-1690

Lightning Talks



Miriam Fernandez The Open University, UK

Late breaking research or position statements

□ Send 1 slide PDF to

iswc2016lightningtalks@gmail.com

BEFORE Thursday midnight

Maximum 30 talks 2min each,

selected and first come first served

□ Friday 10:30am-11:50am

Proceedings



Fabian Flöck

GESIS - Leibniz Institute for the Social Sciences, Germany On web site
SpringerLink
USB thumbdrive





Miel Vander Sande

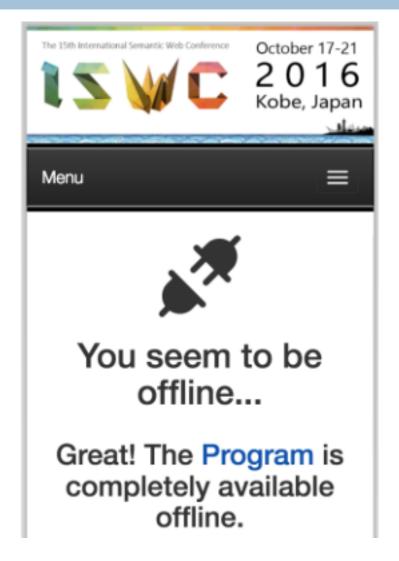
Ghent University - imec, Belgium



iswc2016.questions@gmail.com

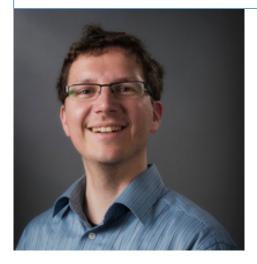
Program Accessibility

- Program section of the website entirely available offline
 - No install, updates or platforms, just the Web
 - Easily browse schedule on any device
 - Bookmark presentations or papers
 - Consult floorplan or paper abstracts
- Videolectures recordings for plenaries and selected sessions



Metadata

Available from http://www.scholarlydata.org
 Visualizations: http://scientometrics.geog.ucsb.edu/iswc/



Christoph Lange University of Bonn / Fraunhofer IAIS, Germany



Silvio Peroni University of Bologna, Italy



Krzysztof Janowicz

University of California Santa Barbara, US

A Paper at the Keyword Epicenter of ISWC 2016

2002 2012	2003 2013	2004 2014	2005 2015	2006 2016	2007	2008	2009	2010	2011
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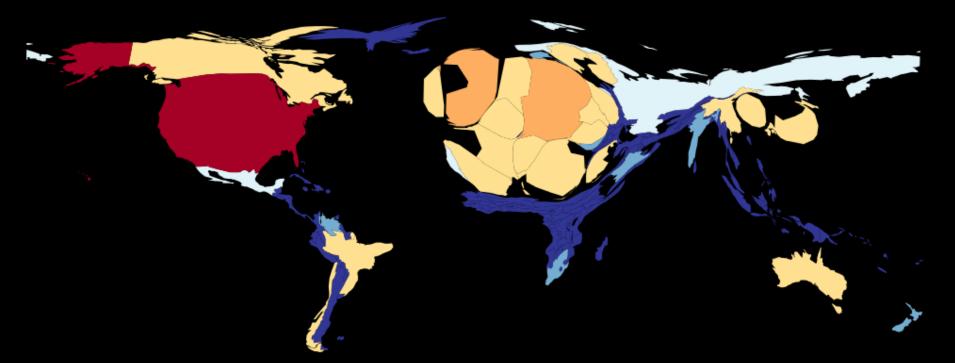
Ontop: Answering SPARQL queries over relational databases (2016) Diego Calvanese, Benjamin Cogrel, Sarah Komla-Ebri, Roman Kontchakov, Davide Lanti, Martin Rezk, Mariano Rodriguez-Muro and Guohui Xiao

Does Conference Location Matter? 2015 Data

ISWC 2015 in Pennsylvania, USA. There are disproportionally many attendees/authors from the US. Leaving Japan aside, Asia and Oceania are under-represented.

The map below is a *Cartogram* visualization showing the home countries of ISWC 2015 participants. The size of each country is distorted and colored based on the number of participants attending. Countries with higher than average participants are shaded in hotter colors while those with fewer than average are shown in cooler shades.

2015

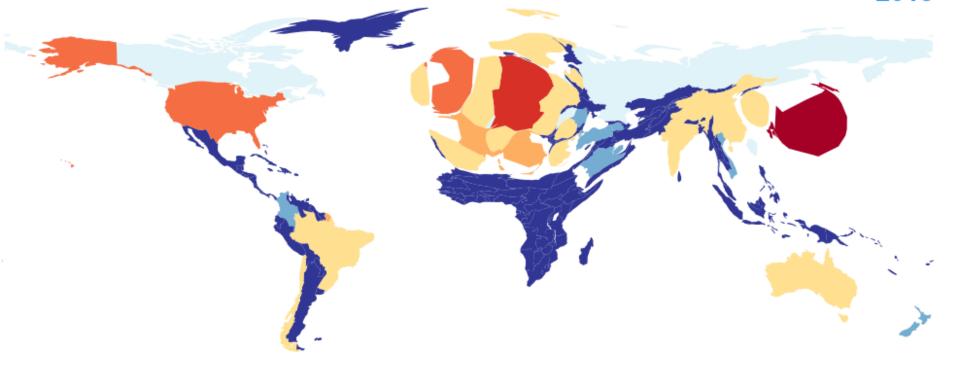


Does Conference Location Matter? 2016 Data

• There are disproportionally many attendees/authors from Japan

2016

- US is slightly under-represented
- More (authors and) visitors from Asia and Oceania



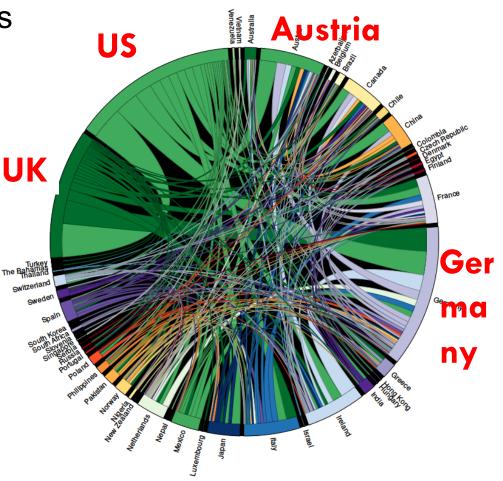
Will we see more participants from Asia/Japan in 2017 and 2018? Should ISWC consider new regions?

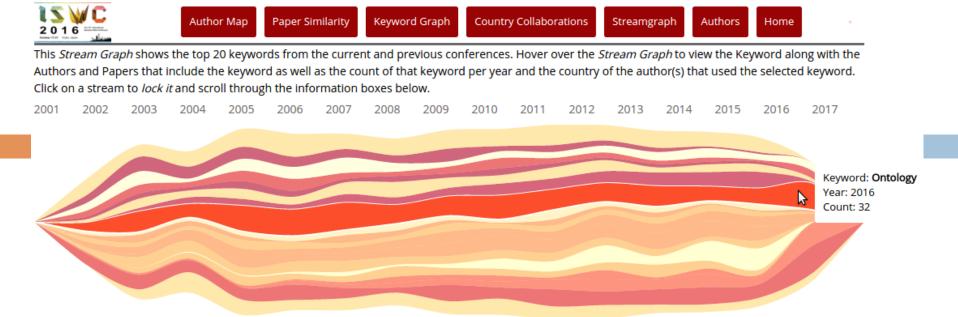
Country Collaborations 2002-2016

The degree **and** diversity of collaborations across countries is impressive.

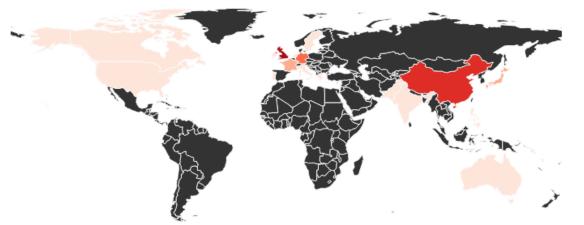
There are very strong ties between the US, UK, and Germany, e.g., 27.2% of all UK papers include US authors.

Interestingly, collaboration Between the neighboring Austria and Germany is under-developed.





Authors (2016)	Papers (2016)	Ê	2005: 31
Mark Sandler: 3	A Reuse-based Annotation Approach for Medical Documents		2006: 32
Craig Knoblock: 2	AUFX-O: Novel Methods for the Representation of Audio Processing Workflows		2007: 33
György Fazekas: 2	Abstract Meaning Representations as Linked Data		2008: 23
José Luis Ambite: 2	Agriculture Activity Ontology : An ontology for core vocabulary of agriculture activity		2009: 24
Pedro Szekely: 2	Algebraic calculi for weighted ontology alignments		2010: 29
Thomas Wilmering: 2	An Extensible Linear Approach For Holistic Ontology Matching		2011: 25
Xiaowang Zhang: 2	An Ontology of Soil Properties and Processes	-	2012: 23



Student Coordination

27 (SWSA) + 8 (NSF) student travel awards Mentoring lunch Thursday: iswc.mentoring.lunch@gmail.com

Abraham Bernstein

University of Zurich, Switzerland



Daniel Garijo

University of Southern California, US



Matthew Horridge

Stanford University, US



Amit P. Sheth

Wright State University, US



Doctoral Consortium

24 submissions from 14 countries 13 presented



Philippe Cudre-Maroux

University of Fribourg, Switzerland



Riichiro Mizoguchi

Japan Advanced Institute of Science and Technology, Japan



Natasha Noy

Google Inc, US

A Word from SWSA



Promote and exchange scholarly work in Semantic Web and related fields

ISWC, summer schools, journals, and awards

- President:
 - Natasha Noy, US
- Vice-Presidents:
 - Abraham Bernstein, Switzerland
 - Ian Horrocks, UK
- Secretary:
 - Carole Goble, UK
- Treasurer:
 - Guus Schreiber, Netherlands
- Immediate Past President:
 - Jim Hendler, US

- Members:
 - Abraham Bernstein, Switzerland
 - Yolanda Gil, US
 - Carole Goble, UK
 - Jim Hendler, USA
 - Ian Horrocks, UK
 - Enrico Motta, UK
 - Natasha Noy, US
 - Guus Schreiber, Netherlands
 - Steffen Staab, Germany
 - Rudi Studer, Germany
 - York Sure-Vetter, Germany

SWSA Distinguished Dissertation Award

Hassan Saif, The Open University, UK

"Semantic Sentiment Analysis of Microblogs"

Brief presentation Friday at 3:30pm-3:50pm

Next year's deadline: June 30, 2017



SWSA 10-Year Award

Jorge A. Perez¹, Marcelo Arenas², Claudio Gutierrez¹

"Semantics and Complexity of SPARQL"

¹Universidad de Chile, Chile

²Pontificia Universidad Catolica de Chile

Chilean Center for

Semantic Web

Research

