



**The 19th International Conference  
on Knowledge Engineering and  
Knowledge Management**

**24-28 November, 2014**

**Linköping, Sweden**





# From the General Chairs

As general chairs we would like to welcome you to the first EKAW conference in a Nordic country. EKAW conferences are concerned with all aspects of eliciting, acquiring, modeling, and managing knowledge, and the construction of knowledge-intensive systems and services for various areas. The special focus of EKAW 2014 is *Diversity*.

The main scientific program comprises invited talks by Pascal Hitzler, Oscar Corcho and Arianna Betti. Further, there are 45 paper presentations from the research and in-use tracks as well as a poster and demonstration session. During the first two days of EKAW there are two tutorials, three workshops (EKM1, VISUAL2014 and ARCOE-Logic 2014) as well as a doctoral consortium. We thank the organizers of these events as well as the invited speaker Mathieu D'Aquin and the mentors for the PhD students in the doctoral consortium.

We would like to thank everyone who has been involved in the organization of EKAW 2014. Our PC chairs Krzysztof Janowicz and Stefan Schlobach, poster and demo chairs Guilin Qi and Uli Sattler, doctoral consortium chairs Chiara Ghidini and Ying Ding, workshop and tutorial chairs Eva Blomqvist and Valentina Presutti, web presence chairs Zlatan Dragisic and Valentina Ivanova, sponsorship chair Axel-Cyrille Ngonga Ngomo and local organization co-chair Henrik Eriksson did a great job. We also would like to thank the members of the local organization committee and in particular Karin Hendry as well as Tina Malmström from Grand Travel Group Sweden AB.

We thank the Semantic Web Journal for the great cooperation concerning a combined conference/journal submission track, where selected EKAW papers receive a fast track submission for extended versions of their papers. We also thank our publisher Springer for the excellent cooperation. The proceedings of the main conference are published as volume 8876 in the LNAI series. Also an EKAW satellite events volume containing poster, demonstration, doctoral consortium and tutorial papers as well as revised best papers of the workshops will be published as a post-conference proceedings in the LNAI series.

We are grateful to our sponsors Linköping University, Aalto University, Vetenskapsrådet, Linköpings kommun as well as our award sponsor IOS Press.

Finally, thank you for participating in EKAW 2014 and we wish you an excellent conference.

Patrick Lambrich

Eero Hyvönen



# From the Program Chairs

A warm welcome to EKAU 2014 also from us program chairs. For almost a year we have been working hard together with the other members of the organization committee to make this year's conference an exciting scientific event.

We would like to thank the authors for the large number of high quality submissions and the program committee for their strong support and timely reviews. All papers received at least 3 reviews, which means that more than 100 colleagues from all over the world provided between 5 and 6 reviews each during the summer break. They deserve a special thanks for their effort and great work. Representative for those, Matthew Horridge, Matteo Palmonari, and Aidan Hogan deserve a special mentioning for their particularly excellent reviews and will be awarded the best EKAU 2014 reviewer award. Finally, several /emergency/ reviewers helped us by providing additional last minute reviews. Representative for those, we would like to mention Wouter Beek here who provided several high quality reviews on short notice.

Out of 138 submissions, 45 got accepted either as full papers (24), short papers (17), or position papers (4). We are especially glad to report that 45 papers were submitted to the combined journal/conference track, for which the reviews and papers were publicly available on the Web. From these papers, 7 were accepted for submission to a fast-track process at the Semantic Web Journal. Three papers are nominated for the EKAU's Best Research Paper award which has been sponsored by IOS Press.

Krzysztof Janowicz

Stefan Schlobach



# Organization

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Eero Hyvönen

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Aalto University, Finland

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Stefan Schlobach

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Vrije Universiteit Amsterdam, The Netherlands

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Valentina Presutti

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STLab ISTC-CNR, Italy

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Uli Sattler

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Linköping University, Sweden

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Valentina Ivanova

Linköping University, Sweden  
Linköping University, Sweden

## Local Organization Members

Zlatan Dragisic  
Karin Hendry  
Valentina Ivanova  
Robin Keskisärkkä  
Tina Malmström

# Program Committees

## Research Track

Benjamin Adams  
Lora Aroyo  
Sören Auer  
Nathalie Aussenac-Gilles  
Andrea Ballatore  
Wouter Beek  
Olivier Bodenreider  
Joost Breuker  
Christopher Brewster  
Liliana Cabral  
Vinay Chaudhri  
Michelle Cheatham  
Paolo Ciancarini  
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Paul Compton  
Olivier Corby  
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Mathieu d'Aquin  
Aba-Sah Dadzie  
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Klaas Dellschaft  
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Jesualdo Tomás Fernández-Breis  
Antske Fokkens  
Aldo Gangemi  
Serge Garlatti  
Dragan Gasevic  
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Luca Gilardoni  
Asunción Gómez-Pérez  
Paul Groth  
Michael Gruninger  
Christophe Guéret  
Jon Atle Gulla  
Peter Haase  
Harry Halpin  
Siefried Handshuh  
Tom Heath  
Martin Hepp  
Jesper Hoeksema  
Rinke Hoekstra

Aidan Hogan  
Matthew Horridge  
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Zhisheng Huang  
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Antoine Isaac  
Valentina Ivanova  
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Grant McKenzie  
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Peter Mika  
Michele Missikoff  
Riichiro Mizoguchi  
Dunja Mladenic  
Andrea Moro  
Enrico Motta  
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Jens Ortmann  
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Marco Rospocher  
Sebastian Rudolph  
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Harald Sack  
Simon Scheider  
Kunal Sengupta  
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Marieke Van Erp  
Frank Van Harmelen  
Iraklis Varlamis  
Fabio Vitali  
Johanna Völker  
Hannes Werthner  
Fouad Zablith

## Poster and demonstrations

Stefan Dietze  
Tudor Groza  
Stuart Wrigley  
Miriam Fernandez  
Christopher Thomas  
Boris Villazón-Terrazas  
Matthew Horridge  
Pascal Molli

Nicolas Matentzoglou  
Liang Chang  
Bernhard Schandl  
Pierre-Antoine Champin  
Alessandro Adamou  
Hala Skaf-Molli  
Haofen Wang  
Yue Ma

## Doctoral Consortium

Sören Auer  
Eva Blomqvist  
Stefano Borgo  
Elena Cabrio  
Michelle Cheatham  
Paolo Ciancarini  
Oscar Corcho  
Mauro Dragoni  
Aldo Gangemi  
Mathieu d'Aquin

Giancarlo Guizzardi  
Maria Keet  
Juanzi Li  
Diana Maynard  
Marco Rospocher  
Satya Sahoo  
Guus Schreiber  
Vojtech Svátek  
Valentina Tamma  
Jun Zhao



Program



# Monday, November 24 - room Sonaten

Workshop - VISUAL: International Workshop on Visualizations and User Interfaces  
for Knowledge Engineering and Linked Data Analytics

09.15 - 09.25	Opening
09.25 - 10.30	Session 1: Ontology Visualization ( <i>Session Chair: Valentina Ivanova</i> )
09.25 - 09.50	A Vision for Diagrammatic Ontology Engineering ( <i>full paper</i> ) <i>Gem Stapleton, John Howse, Adrienne Bonnington and Jim Burton</i>
09.50 - 10.15	OntoViBe – An Ontology Visualization Benchmark ( <i>full paper</i> ) <i>Florian Haag, Steffen Lohmann, Stefan Negru and Thomas Ertl</i>
10.15 - 10.30	Discussion Session 1
10.30 - 11.00	Coffee Break
11.00 - 12.30	Session 2: User-Oriented Ontology Alignment ( <i>Session Chair: Steffen Lohmann</i> )
11.00 - 11.20	What Can the Ontology Describe? Visualizing Local Coverage in PURO Modeler ( <i>short paper</i> ) <i>Marek Dudas, Tomas Hanzal and Vojtech Svatek</i>
11.20 - 11.45	User Involvement for Large-Scale Ontology Alignment ( <i>full paper</i> ) <i>Valentina Ivanova and Patrick Lambrich</i>
11.45 - 12.00	Discussion Session 2
12.00 - 12.30	Wrap Up Sessions 1 + 2
12.30 - 14.00	Lunch Break
14.00 - 15.00	Session 3: Visual Approaches to Linked Data ( <i>Session Chair: Valentina Ivanova</i> )
14.00 - 14.25	Sensemaking on Wikipedia by Secondary School Students with SynerScope ( <i>full paper</i> ) <i>Willem Robert Van Hage, Fernando Nunez-Serrano, Thomas Ploeger and Jesper Hoeksema</i>
14.25 - 14.45	Towards a Visual Annotation Tool for End-User Semantic Content Authoring ( <i>short paper</i> ) <i>Torgeir Lebesbye and Ahmet Soyulu</i>
14.45 - 15.00	Discussion Session 3
15.00 - 15.30	Coffee Break
15.30 - 17.00	Session 4: Demo Jam ( <i>Session Chair: Steffen Lohmann</i> )
15.30 - 16.30	Impromptu demos (everyone is invited to join and present)
16.30 - 17.00	Wrap Up Sessions 3 + 4

## Monday, November 24 - room Solot

Tutorial - K4D: Managing and sharing knowledge in rural parts of the world

09.00 - 09.45	Session 1 Scenarios: Knowledge Sharing for developing countries
09.45 - 10.30	Session 2 Challenges and solutions: Knowledge Sharing in development practice
10.30 - 11.00	Coffee Break
11.00 - 11.45	Session 3 K(E/A/M)4D: Enabeling Knowledge for Empowerment?
11.45 - 12.30	Session 4 Development Informatics

Workshop - EKM1: The 1st International Workshop on Educational Knowledge Management

13.30 - 13.35	Welcome
13.35 - 15.05	Paper presentations
13.35 - 14.05	Discovering Educational Potential Embedded in Community Question Answering <i>Ivan Srba and Mária Bieliková</i>
14.05 - 14.35	An Agent Based Approach to Annotate Ideas during Creativity Challenges in an Engineering School of Innovator <i>Davy Monticolo, T. K. Chang and Inaya Lahoud</i>
14.35 - 15.05	Generating Multiple Questions From Ontologies: How Far Can We Go? <i>Tahani Alsubait, Bijan Parsia, Uli Sattler</i>

## Tuesday, November 25 - room Sonaten

Workshop - ARCOE-Logic: The 6th International Workshop on Acquisition,  
Representation and Reasoning about Context with Logic

09.30 - 12.30		Paper presentations
09.30 - 10.00		<b>Knowledge Propagation in Contextualized Knowledge Repositories: an Experimental Evaluation</b> <i>Loris Bozzato and Luciano Serafini</i>
10.00 - 10.30		<b>Adding Context to Knowledge and Action Bases</b> <i>Diego Calvanese, Ismail Ilkan Ceylan, Marco Montali and Ario Santoso</i>
10.00 - 10.30		Coffee Break
10.30 - 11.00		<b>Different types of conflicting knowledge in Aml environments</b> <i>Martin Homola and Theodore Patkos</i>
11.00 - 11.30		<b>Reasoning for Improved Sensor Data Interpretation in a Smart Home</b> <i>Marjan Alirezaie and Amy Loutfi</i>
12.00 - 12.30		<b>Context-aware Analytics in MOM Applications</b> <i>Martin Ringsquandl, Steffen Lamparter and Raffaello Lepratti</i>

### Doctoral Consortium

13.30 - 14.15		Welcome and invited talk
		Invited speaker: Mathieu d'Aquin "The many ways of research in semantic technologies"
14.15 - 16.45		Full presentations (15' talk + 10' feedback)
14.15 - 14.40		<b>Linked Data Cleansing and Change Management</b> <i>Magnus Knuth (mentor Martin Homola)</i>
14.40 - 15.05		<b>Versatile Visualization, Authoring and Reuse of Ontological Schemas Leveraging on Dataset</b> <i>Marek Dudas (mentor Valentina Tamma)</i>
15.05 - 15.30		Coffee Break
15.30 - 15.55		<b>Towards Ontology Refinement by Combination of Machine Learning and Attribute</b> <i>Jędrzej Potoniec (mentor Mathieu d'Aquin)</i>
15.55 - 16.20		<b>RDF based management, syndication and aggregation of web content</b> <i>Niels Ockeloen (mentor Marco Rospocher)</i>
16.20 - 16.45		<b>Culture-aware music similarity measures</b> <i>Gopala Krishna Koduri (mentor Alessio Palmonari)</i>
16.45 - 17.05		Short presentations (10' talk + 10' feedback)
16.45 - 17.05		<b>Assessing the spatio-temporal Fitness of Information Supply and Demand on an Adaptive Ship Bridge</b> <i>Christian Denker (mentor Anna Perini)</i>

## Tuesday, November 25 - room Solot

### Tutorial - Language Resources and Linked Data

09.00 - 09.10	Welcome and introduction
09.10 - 09.30	Session 1: Foundations
09.30 - 10.30	Session 2: Modelling lexical resources on the Web of Data: the lemon model (intro)
10.30 - 11.00	Coffee Break
11.00 - 11.45	Session 2: Modelling lexical resources on the Web of Data: the lemon model (hands-on)
11.45 - 12.30	Session 3: Methodology and tools for Multilingual Linked Data generation (intro + hands-on)
12.30 - 13.30	Lunch Break
13.30 - 14.00	Session 3: Methodology and tools for Multilingual Linked Data generation (hands-on)
14.00 - 15.00	Session 4: Integrating NLP with Linked Data and RDF: the NIF format (intro + hands-on)
15.00 - 15.30	Coffee Break
15.30 - 15.45	Session 4: Integrating NLP with Linked Data and RDF: the NIF format (hands-on)
15.45 - 17.00	Session 5. Multilingual Word Sense Disambiguation and Entity Linking on the Web based on BabelNet (intro + hands-on)



# Wednesday, November 26 - room Operan

## Main Conference - Day 1

08.30 - 09.00	Registration
09.00 - 09.20	Opening ceremony
09.20 - 10.20	Keynote: Pascal Hitzler ( <i>Session Chair: Krzysztof Janowicz</i> ) "Ontology Design Patterns for Large-Scale Data Interchange and Discovery"
10.20 - 10.50	Break
10.50 - 12.10	Session 1: Knowledge and Data Integration ( <i>Session Chair: Frank van Harmelen</i> )
10.50 - 11.10	Pay-As-You-Go Multi-User Feedback Model for Ontology Matching <i>Isabel Cruz, Matteo Palmonari, Francesco Loprete, Cosmin Stroe and Aynaz Taheri</i>
11.10 - 11.30	Querying the Global Cube: Integration of Multidimensional Datasets from the Web <i>Benedikt Kämpgen, Steffen Stadtmüller and Andreas Harth</i>
11.30 - 11.50	A Dialectical Approach to Selectively Reusing Ontological Correspondences <i>Terry Payne and Valentina Tamma</i>
11.50 - 11.57	Feasibility of Automated Foundational Ontology Interchangeability <i>Zubeida Khan and C. Maria Keet</i>
11.57 - 12.04	aLDEAS: a Language to Define Epiphytic Assistance Systems <i>Blandine Ginon, Stéphanie Jean-Daubias, Pierre-Antoine Champin and Marie Lefevre</i>
12.04 - 12.11	Information Flow within Relational Multi-context Systems <i>Luís Cruz-Filipe, Graca Gaspar and Isabel Nunes</i>
12.10 - 13.30	Lunch
13.00 - 13.30	Ice Hockey 101
13.30 - 15.00	Session 2: Semantics ( <i>Session Chair: Oscar Corcho</i> )
13.30 - 13.50	Temporal Semantics: time-varying hashtag sense clustering <i>Paola Velardi and Giovanni Stilo</i>
13.50 - 14.10	What is Linked Historical Data? <i>Albert Meroño-Peñuela and Rinke Hoekstra</i>
14.10 - 14.30	Uncovering the semantics of Wikipedia wikilinks <i>Valentina Presutti, Sergio Consoli, Andrea Giovanni Nuzzolese, Diego Reforgiato, Aldo Gangemi, Ines Bannour and Haïfa Zargayouna</i>
14.30 - 14.50	Inferring Semantic Relations by User Feedback <i>Francesco Osborne and Enrico Motta</i>
14.50 - 14.57	Feeling the Pulse of Linked Data <i>Laurens Rietveld and Rinke Hoekstra</i>
15.00 - 15.15	Break
15.15 - 16.00	Minute Madness: Demos and Posters
16.00 - 18.00 Nibbles	Posters and Demos Session
18:00	Extra social event (ice hockey game)

# Thursday, November 27 - room Operan

## Main Conference - Day 2

09.00 - 09.15	Registration
09.15 - 9.20	Announcements
09.20 - 10.20	Keynote: Oscar Corcho ( <i>Session Chair: Eero Hyvönen</i> ) "Ontology engineering for and by the masses: are we already there?"
10.20 - 10.40	Break
10.40 - 12.10	Session 3: Knowledge Engineering: Applications ( <i>Session Chair: Eva Blomqvist</i> )
10.40 - 11.00	A Core Ontology of Macroscopic Stuff <i>C. Maria Keet</i>
11.00 - 11.20	On the collaborative development of application ontologies: a practical case study with a SME <i>Marco Rospocher, Elena Cardillo, Ivan Donadello and Luciano Serafini</i>
11.20 - 11.30	Futures Studies Methods for Knowledge Management in Academic Research <i>Sabine Kadlubek, Stella Schulte-Cörne, Florian Welter, Anja Richert and Sabina Jeschke</i>
11.30 - 11.50	A Hybrid Semantic Approach to Building Dynamic Maps of Research Communities <i>Francesco Osborne, Giuseppe Scavo and Enrico Motta</i>
11.50 - 12.10	A knowledge driven approach towards the validation of externally acquired traceability datasets in supply chain business processes ( <i>In-Use track</i> ) <i>Monika Solanki and Christopher Brewster</i>
12.10 - 13.20	Lunch
13.20 - 14.20	Session 4: Ontologies: usage and visualisation ( <i>Session Chair: Mathieu d'Aquin</i> )
13.20 - 13.40	VOWL 2: User-Oriented Visualization of Ontologies <i>Steffen Lohmann, Stefan Negru, Florian Haag and Thomas Ertl</i>
13.40 - 14.00	Roadmapping and Navigating in the Ontology Visualization Landscape <i>Marek Dudas, Ondrej Zamazal and Vojtěch Svátek</i>
14.00 - 14.07	Using ontologies - understanding the user experience <i>Paul Warren, Paul Mulholland, Trevor Collins and Enrico Motta</i>
14.07 - 14.14	Measuring similarity in ontologies: a new family of measures <i>Tahani Alsubait, Bijan Parsia and Uli Sattler</i>
14.14 - 14.21	Question Generation from a Knowledge Base ( <i>In-Use track</i> ) <i>Vinay Chaudhri, Peter Clark, Aaron Spaulding and Adam Overholtzer</i>
14.20 - 14.40	Short Break
14.40 - 16.10	Session 5: Reasoning, Inference and Search ( <i>Session Chair: Chiara Ghidini</i> )
14.40 - 15.00	Inconsistency Monitoring in a Large Scientific Knowledge Base <i>Vinay Chaudhri, Rahul Katragadda, Jeff Shrager and Michael Wessel</i>
15.00 - 15.20	Adaptive Knowledge Propagation in Web Ontologies ( <i>Best Paper nominee</i> ) <i>Pasquale Minervini, Claudia D'Amato, Nicola Fanizzi and Floriana Esposito</i>
15.20 - 15.40	Relationship-based Top-K Concept Retrieval for Ontology Search <i>Anila Sahar Butt, Armin Haller and Lexing Xie</i>
15.40 - 15.47	Testing OWL Axioms Against RDF Facts: A possibilistic approach based on falsifiability <i>Andrea Tettamanzi, Catherine Faron Zucker and Fabien Gandon</i>
15.47 - 15.54	Automating Cross-Disciplinary Defect Detection in Multi-Disciplinary Engineering Environments <i>Olga Kovalenko, Estefania Serral, Marta Sabou, Fajar J. Ekaputra, Dietmar Winkler and Stefan Biffl</i>
15.54 - 16.01	Methods of Using Partial Data in Disambiguating Web Tables <i>Ziqi Zhang</i>
16.01 - 16.08	Logical Detection of Invalid SameAs Statements in RDF Data <i>Laura Papaleo, Nathalie Pernelle, Fatiha Sais and Cyril Dumont</i>
16.15 - 17.00	Town Hall
17.15 - 22.45	Dinner
17.15	Bus leaves for Norrköping
22.45	Bus leaves for Linköping

# Friday, November 28 - room Operan

## Main Conference - Day 3

09.00 - 09.15	Registration
09.15 - 09.30	Announcements
09.30 - 10.30	Keynote: Arianna Betti ( <i>Session Chair: Stefan Schlobach</i> ) "Concepts in Motion"
10.30 - 11.00	Break
11.00 - 12.20	Session 6: Knowledge Extraction and Learning ( <i>Session Chair: Valentina Presutti</i> )
11.00 - 11.20	Relation Extraction from the Web using Distant Supervision ( <i>Best Paper nominee</i> ) <i>Isabelle Augenstein, Diana Maynard and Fabio Ciravegna</i>
11.20 - 11.30	Adaptive Concept Vector Space Representation using Markov Chain Model <i>Zenun Kastrati and Ali Shariq Imran</i>
11.30 - 11.50	Tackling the Class-Imbalance Learning Problem in Semantic Web Knowledge Bases <i>Giuseppe Rizzo, Claudia D'Amato, Nicola Fanizzi and Floriana Esposito</i>
11.50 - 11.57	Inductive Lexical Learning of Class Expressions <i>Lorenz Böhmann, Daniel Fleischhacker, Jens Lehmann, Andre de Oliveira Melo and Johanna Völker</i>
11.57 - 12.04	Automatic ontology population from a product catalog <i>Céline Alec, Chantal Reynaud-Delaître, Brigitte Safar, Zied Sellami and Uriel Berdugo</i>
12.04 - 12.11	Closed-World Concept Induction for Learning in OWL Knowledge Bases <i>David Ratcliffe and Kerry Taylor</i>
12.11 - 12.18	Using event spaces, setting and theme to assist the interpretation and development of museum storie: <i>Paul Mulholland, Annika Wolff, Eoin Kilfeather and Evin McCarthy</i>
12.20 - 13.30	Lunch
13.30 - 15.00	Session 7: Knowledge Engineering: Methods ( <i>Session Chair: Eero Hyvönen</i> )
13.30 - 13.50	A Conceptual Model for Detecting Interactions among Medical Recommendations in Clinical Guidelines <i>Veruska Zamborlini, Marcos Da Silveira, Cédric Pruski, Rinke Hoekstra, Annette Ten Teije and Frank Van Harmelen</i>
13.50 - 14.10	A Quality Assurance Workflow for Ontologies based on Semantic Regularities <i>Eleni Mikroyannidi, Manuel Quesada-Martínez, Dmitry Tsarkov, Jesualdo Tomas Fernandez Breis, Robert Stevens and Ignazio Palmisano</i>
14.10 - 14.30	Ontology Design Pattern Property Specialisation Strategies <i>Karl Hammar</i>
14.30 - 14.40	Functional Logic Programming for Web Knowledge Representation, Sharing and Querying <i>Matthias Nickles</i>
14.40 - 15.00	The uComp Protege Plugin: Towards Embedded Human Computation for Ontology Engineering <i>Florian Hanika, Gerhard Wohlgenannt and Marta Sabou</i>
15.00 - 15.20	Short Break
15.20 - 16.35	Session 8: Linked Data ( <i>Session Chair: Stefan Schlobach</i> )
15.20 - 15.40	Quantifying the bias in data links <i>Ilaria Tiddi, Mathieu D'Aquin and Enrico Motta</i>
15.40 - 16.00	A Neural Network-based Approach for Linked Data Rules Aggregation ( <i>Best Paper nominee</i> ) <i>Ilaria Tiddi, Mathieu D'Aquin and Enrico Motta</i>
16.00 - 16.20	Personalised Access to Linked Data <i>Milan Dojchinovski and Tomas Vitvar</i>
16.20 - 16.27	Using Linked Data to diversify search results: a case study in cultural heritage <i>Chris Dijkshoorn, Lora Aroyo, Jan Wielemaker and Guus Schreiber</i>
16.27 - 16.34	Integrating Know-How into the Linked Data Cloud <i>Paolo Paretì, Benoit Testu, Ryutaro Ichise, Ewan Klein and Adam Barker</i>
16.35 - 17.15	Closing

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