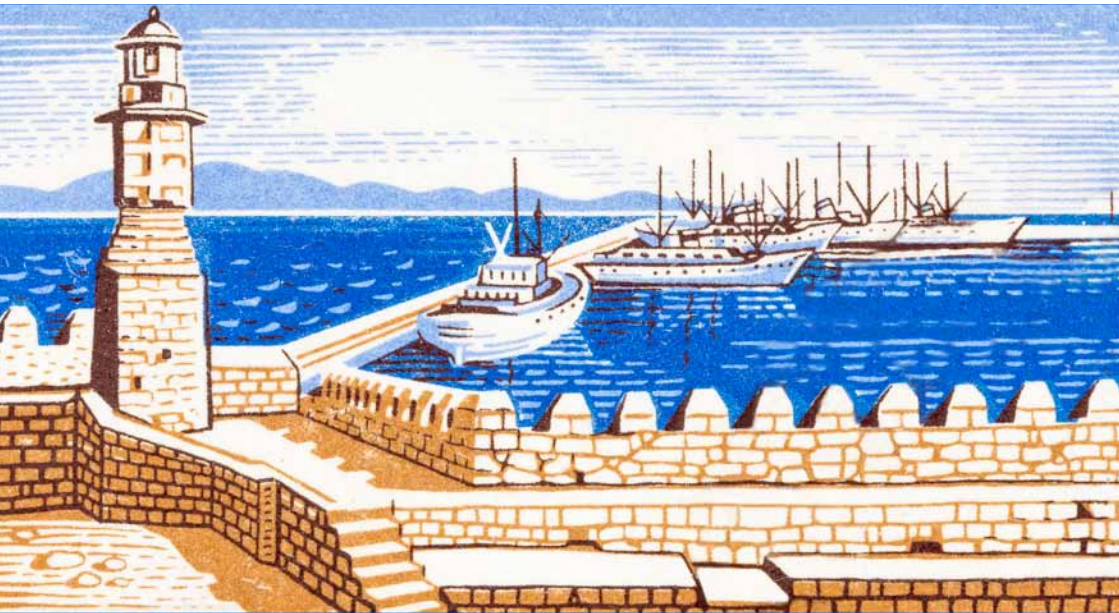




13th ESWC 2016

May 29th - June 2nd | Heraklion, Crete, Greece



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WELCOME TO ESWC 2016 IN CRETE!

Καλώς ήρθατε στην ESWC 2016 στην Κρήτη!

Dear ESWC Participant,

It is my great pleasure to welcome you to the 13th ESWC Conference - the major international forum for discussing the latest scientific results and technology innovations in semantic technologies. ESWC is back in sunny Crete, where an exciting conference program is awaiting us.

The main scientific program of ESWC 2016 comprises 47 paper presentations (39 research track and 8 industry & in use track) complemented by demonstration and poster presentations, as well as 13 workshops and 9 tutorials. For the PhD Symposium 10 papers have been selected for presentation. In addition there will be the EU Project Networking Session and the ESWC Challenges track with overall five challenges. Complementing our established topics ESWC 2016 features two special subjects with emphasis on interdisciplinary research and future synergies: 'Trust & Privacy' and 'Smart Cities, Urban & GeoSpatial Data'.

This year we have three keynotes from outstanding leaders in their field: Jim Hendler (Rensselaer Polytechnic Institute), one of the originators of the Semantic Web, who explores the use and needs for ontologies on the Web to come up with new directions. Eleni Pratsini (IBM Research Ireland), who defines our current position regarding semantic technologies' deployment from a business perspective, and Ernesto Damiani (Universita' degli Studi di Milano), who analyzes the risk related to semantic enrichment of Big Data.

As General Chair, I owe all members of the Organizing Committee my gratitude for doing such an excellent job, investing uncounted hours of hard volunteer work. Most importantly I would like to thank the Program Co-Chairs Eva Blomqvist and Mathieu d'Aquin, who did an outstanding job in putting together a high quality technical conference program and led an excellent team of track chairs.



Harald Sack
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Special thanks go to our PhD Symposium Co-Chairs Chiara Ghidini and Simone Paolo Ponzetto, to our Workshop Co-Chairs Dunja Mladenic and Sören Auer, as well as to our Tutorial Co-Chairs Sofia Pinto and Tommaso di Noia. I would like to thank the Poster & Demo Co-Chairs Nadine Steinmetz and Giuseppe Rizzo, as well as the Challenges Co-Chairs Anna Tor-dai and Stefan Dietze for their excellent work. Thanks a lot to our EU Project Networking Co-Chairs Erik Mannens, Oscar Corcho, Lyndon Nixon, and Mauro Dragoni. I am rather grateful to our Publicity Chair Heiko Paulheim, who unleashed the power of the social web for ESWC related news, as well as to our Sponsoring Co-Chairs Steffen Lohmann and Freddie Lecue. Also I should not forget to thank our Proceedings Chair Christoph Lange for his patience and excellent work in putting together the conference proceedings, as well as the Semantic Technologies Coordinators Anna Lisa Gentile and Andrea Giovanni Nuzzolese.

This conference would not have been possible without the support of STI International. Thanks a lot to Venislav Georgiev from STI for administrating the ESWC web site and to youvivo GmbH with Katharina Haas for their perfect organisational and administrative support.

I'm looking forward to have the chance to express these thoughts to all of them in person here at ESWC 2016! I hope you will enjoy both the formal parts of the conference and the interactions with the amazing people that you will meet here!

Harald Sack
General Chair, ESWC 2016



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form that will implement the roadmap and assist stakeholders in identifying and meeting big data challenges. Furthermore, BYTE will disseminate project findings and recommendations and publicize the big data community to a large population of stakeholders to encourage further innovation and economic competitiveness in Europe's engagement with big data.

<http://byte-project.eu>

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ENTROPY | Design of an innovative energy-aware IT ecosystem for motivating behavioural changes towards the adoption of energy efficient lifestyles

Taking into account the fact that buildings constitute the largest end-use energy consuming sector, the design and development of solutions targeted at reducing their energy consumption based on the adoption of energy efficient techniques and the active engagement of citizens/occupants is considered crucial. Innovative solutions have to be implemented upon properly understanding the main energy consuming factors and trends, as well as properly modeling and understanding the citizens' behaviour and the potential for lifestyle changes.

The ENTROPY project addresses this challenge by building upon the integration of technologies that facilitate the deployment of innovative energy aware IT ecosystems for motivating end-users' behavioural changes and namely: (1) the Internet of Things that provides the capacity for interconnecting numerous devices and applying



energy-efficient communication protocols, (2) the evolution of advanced Data Modelling and Analysis techniques that support the realization of semantic models and knowledge extraction mechanisms and (3) Recommendation and Gamification that can trigger interaction with relevant users in social networks, increase end users' awareness with regards to ways to achieve energy consumption savings in their daily activities and adopt energy efficient lifestyles as well as provide a set of energy efficient recommendations and motives. <http://entropy-project.eu>

HOBBIT | HOBBIT aims at abolishing the barriers in the adoption and deployment of Big Linked Data by European companies, by means of open benchmarking reports that allow them to assess the fitness of existing solutions for their purposes. These benchmarks are based on data that reflects reality and measures industry-relevant Key Performance Indicators (KPIs) with comparable results using standardized hardware. You can participate by completing our short survey for the industry and other potential partners on how they are evaluating their software. With this survey, we aim to raise awareness about the HOBBIT project and lay a foundation for potential contacts to build the HOBBIT association, which will play a key role in determining the form of the HOBBIT benchmarking platform, by providing KPI's, use cases and datasets. We invite everyone who could possibly benefit from the HOBBIT platform or its association in any way, to fill in the survey, which should take no more than five minutes to complete. <http://project-hobbit.eu>



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IN-USE AND INDUSTRIAL TRACK

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Eva Blomqvist - Linköping University, Sweden

Joseph Busch - Taxonomy Strategies

Elena Cabrio - University of Nice Sophia Antipolis

Michael Crandall - University of Washington Information School

Mathieu D'Aquin - Knowledge Media Institute KMI, UK

Danica Damljanovic - RecordSure, UK

Mauro Dragoni - Fondazione Bruno Kessler, Italy

Fabien Gandon - INRIA Sophia Antipolis

Alain Giboin - INRIA Sophia Antipolis

Jorge Gracia - Ontology Engineering Group, Universidad Politécnica de Madrid

Paul Groth - Elsevier Labs

Alessio Gugliotta - Innova

Peter Haase - metaphacts GmbH

Oktie Hassanzadeh - IBM T.J. Watson Research

Takahiro Kawamura - Japan Science and Technology Agency

Mike Lauruhn - Elsevier

Nuno Lopes - IBM Research, Smarter Cities Technology Centre, Dublin

Parvathy Meenakshy - NXP

Peter Mika - Yahoo! Research

Andriy Nikolov - fluid Operations AG

Olaf Noppens - derivio GmbH

Jacco Van Ossensbruggen - CWI

Carlos R. Rivero - Rochester Institute of Technology

Marta Sabou - Vienna University of Technology

Harald Sack - Hasso-Plattner-Institute for IT Systems Engineering, University of Potsdam

Dhaval Thakker - University of Bradford

Alessandra Toninelli - Engineering Ingegneria Informatica

Giovanni Tumarello - Siren Solutions

Holger Wache - University of Applied Sciences and Arts Northwestern Switzerland

KEYNOTE SPEAKERS →



Prof. James Hendler

Rensselaer Polytechnic Institute, Troy NY, USA

WITHER OWL IN A KNOWLEDGE-GRAPHED, LINKED-DATA WORLD?

James Hendler is the Director of the Rensselaer Institute for Data Exploration and Applications and the Tetherless World Professor of Computer, Web and Cognitive Sciences at RPI. He also serves as a Director of the UK's charitable Web Science Trust. Hendler has authored over 300 technical papers in the areas of Semantic Web, artificial intelligence, agent-based computing and high performance processing. One of the originators of the "Semantic Web," Hendler was the recipient of a 1995 Fulbright Foundation Fellowship and is a Fellow of the American Association for Artificial Intelligence, the British Computer Society, the IEEE and the Association for the Advancement of Science. He is also the former Chief Scientist of the Information Systems Office at the US Defense Advanced Research Projects Agency (DARPA). He is the first computer scientist to serve on the Board of Reviewing editors for Science. In 2010, Hendler was named one of the 20 most innovative professors in America by Playboy magazine and was selected as an "Internet Web Expert" by the US government. In 2012, he was one of the

inaugural recipients of the Strata Conference "Big Data" awards for his work on large-scale open government data, and he is a columnist and associate editor of the Big Data journal. He recently received a faculty research award from IBM for his contributions to cognitive computing and the Watson system.

website:<http://www.cs.rpi.edu/~hendler/>

The need for ontologies in the real world is manifest and increasing. On the Web, ontologies are increasingly needed — but OWL isn't being used in many of these applications. This talk explores some of the use and needs for ontologies on the Web in data integration, emerging technologies, and linked data applications. It focuses on deficiencies in OWL's design that have hindered its application, and suggests some directions for making OWL more relevant to the modern Web, rather than the Web of the early 2000's. The talk ends with some challenges to the OWL, and greater ontology, community needed to be addressed if we are to see more use of ontologies on the Web.



Prof. Ernesto Damiani

Dept. of Computer Science, University degli Studi di Milano, Italy

CONTROLLING LEAKAGE AND DISCLOSURE RISK IN SEMANTIC BIG DATA PIPELINES

Ernesto Damiani is the Director of the Information Security Research Center at Khalifa University, Abu Dhabi, and the leader of the Big Data Initiative at the Etisalat British Telecom Innovation Center (EBTIC). Ernesto is on extended leave from the Department of Computer Science, Università degli Studi di Milano, Italy, where he leads the SESAR research lab and coordinates several large scale research projects funded by the European Commission, the Italian Ministry of Research and by private companies such as British Telecom, Cisco Systems, SAP, Telecom Italia and many others. Ernesto's research interests include business process analysis and privacy-preserving Big Data analytics. Ernesto is the Principal Investigator of the TOREADOR H2020 project on models and tools for Big data-as-a-service.

website: <http://olaf.crema.unimi.it/>

In many Big Data environments, information is made available as huge data streams, collected and analyzed at different locations, asynchronously and under the responsibility of different authorities. It has become common for data analysts to have a mandate for computing Big Data analytics without holding the rights to access the individual data points in the input, as they may contain sensitive information

or personal data protected by privacy regulations. This talk discusses the idea that techniques used for semantic enrichment of Big Data (such as semantic lifting to harmonize metadata representation across data collection points and pre-joins at data ingestion time to avoid computing semantic joins on Big Data storage) can be seen as non-linear leakage and privacy risk boosters. Intuition suggests that semantic techniques applied to Big Data representation may have a double impact on security risks:

- (1) increase leakage risk by increasing the value for the attacker per unit of information leaked
- (2) increase intrusion risk, making injection attacks (i.e. attacks aimed at poisoning data for subverting the outcome of analytics) more effective per unit of poisoned information injected.

However, no clear methodology is currently available for quantifying the impact of these boosters. This talk will discuss a (semi-)quantitative technique for computing Big Data leakage risk estimates, in order to meaningfully compare them with the quantifiable benefits of semantic enrichment. Also, it will discuss a model and a toolkit for protecting semantically enriched data streams based on the idea of dynamic filters, incrementally built based on the applicable Access Control policy and on the analytics to be performed.



Dr. Eleni Pratsini

Lab Director, Smarter Cities Technology Center, IBM Research – Ireland

SEMANTIC TECHNOLOGIES IN BUSINESS: ARE WE THERE YET?

Eleni Pratsini is Director of the IBM Research – Ireland Lab, overseeing research activities in high performance systems, optimization and control, semantic systems and cognitive computing. The Lab's mission is on advancing science and technology for intelligent urban and environmental systems, with a focus on creating analytics and optimization solutions and systems for sustainable energy, constrained resources (e.g. urban water management), transportation, citizen care, and the underlying city fabric that assimilates and shares data and models for these domains. Prior to moving to Ireland, Eleni was Director of Optimization Research at the IBM T.J. Watson Research Center in New York, Manager of Mathematical and Computational Sciences of IBM Research – Zurich, and Research Scientists at the Swiss Federal Institute of Technology Zurich (ETHZ).

website: <http://researcher.ibm.com/researcher/view.php?person=ie-ELENIP>

Developing intelligent solutions requires a comprehensive understanding and management of the data. Intelligent semantic systems provide the smart technologies to harvest large amounts of data and insight in order to find solutions to the problems in various application areas. Typical challenges are: data acquisition from different types of sources; establishing links among different data types using both structure and content; dynamic, real-time processing of data; scalability for analytics and query processing, just to name a few. These challenges often prevent a business from even starting to look at the information and make sense out of it. At the same time, advances in cognitive computing offer new possibilities in analyzing unstructured information for richer insights. In this talk, we will use applications to discuss the use of semantic technologies, point out the research challenges, and highlight the business benefit from these technologies. We will conclude with a view on future research directions.

Time	Ourania	Polymnia	Erato	Kalia	Melpo	Thalia	Clio	Time
09:30 - 10:30	Tutorial Relation Extraction From linguistic predicate-arguments to Linked Data and ontologies: Extracting n-ary relations	Workshop EMSASW Workshop on Emotions, Modality, Sentiment Analysis and the Semantic Web	Workshop SALAD Services and Applications over Linked APIs and Data	Workshop SEMPER Semantic Web Technologies in Mobile and Pervasive Environments	Workshop WhiSE 1st Workshop on Humanities in the SEmantic web	Tutorial DOREMUS DOing REusable MUSical data	Tutorial Data Quality and Scalability Improving Quality and Scalability in Semantic Data Management	09:30 - 10:30
10:30 - 11:00	Coffee break							10:30 - 11:00
11:00 - 12:30	Tutorial Relation Extraction From linguistic predicate-arguments to Linked Data and ontologies: Extracting n-ary relations	Workshop EMSASW Workshop on Emotions, Modality, Sentiment Analysis and the Semantic Web	Workshop SALAD Services and Applications over Linked APIs and Data	Workshop SEMPER Semantic Web Technologies in Mobile and Pervasive Environments	Workshop WhiSE 1st Workshop on Humanities in the SEmantic web	Tutorial DOREMUS DOing REusable MUSical data	Tutorial Data Quality and Scalability Improving Quality and Scalability in Semantic Data Management	11:00 - 12:30
12:30 - 14:00	Lunch break							12:30 - 14:00
14:00 - 15:30	Tutorial Relation Extraction From linguistic predicate-arguments to Linked Data and ontologies: Extracting n-ary relations	Workshop EMSASW Workshop on Emotions, Modality, Sentiment Analysis and the Semantic Web	Workshop SALAD Services and Applications over Linked APIs and Data	Workshop SEMPER Semantic Web Technologies in Mobile and Pervasive Environments	Workshop WhiSE 1st Workshop on Humanities in the SEmantic web		Tutorial RDF Benchmarks Assessing the performance of RDF Engines: Discussing RDF Benchmarks	14:00 - 15:30
15:30 - 16:00	Coffee break							15:30 - 16:00
16:00 - 17:30	Tutorial Relation Extraction From linguistic predicate-arguments to Linked Data and ontologies: Extracting n-ary relations	Workshop EMSASW Workshop on Emotions, Modality, Sentiment Analysis and the Semantic Web	Workshop SALAD Services and Applications over Linked APIs and Data	Workshop SEMPER Semantic Web Technologies in Mobile and Pervasive Environments	Workshop WhiSE 1st Workshop on Humanities in the SEmantic web		Tutorial RDF Benchmarks Assessing the performance of RDF Engines: Discussing RDF Benchmarks	16:00 - 17:30

Time	Ourania	Polymnia	Erato	Kalia	Melpo	Thalia	Efterpi	Clio	Time
09:30 - 10:30	Workshop CoDeS and KnowI@LOD 5th Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data & International Workshop on Completing and Debugging the Semantic Web	Workshop MEPDaW Managing the Evolution and Preservation of the Data Web	Tutorial LDF & Workshop ESWC DevWS Linked Data Fragments (LDF) & Developers Hackshop	Workshop SW4SH 2nd Int. Workshop on Semantic Web for Scientific Heritage	Tutorial RDF validation RDF and Linked Data validation	Tutorial User Model Enrichment User Model Enrichment using the Social and Semantic Web		Workshop PROFILES 3rd International Workshop on Dataset PROFILING and Ederated Search for Linked Data	09:30 - 10:30
10:30 - 11:00	Coffee break								10:30 - 11:00
11:00 - 12:30	Workshop CoDeS and KnowI@LOD 5th Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data & International Workshop on Completing and Debugging the Semantic Web	Workshop MEPDaW Managing the Evolution and Preservation of the Data Web	Tutorial LDF & Workshop ESWC DevWS Linked Data Fragments (LDF) & Developers Hackshop	Workshop SW4SH 2nd Int. Workshop on Semantic Web for Scientific Heritage	Tutorial RDF validation RDF and Linked Data validation	Tutorial User Model Enrichment User Model Enrichment using the Social and Semantic Web		Workshop PROFILES 3rd International Workshop on Dataset PROFILING and Ederated Search for Linked Data	11:00 - 12:30
12:30 - 14:00	Lunch break								12:30 - 14:00
14:00 - 15:30	Workshop LDQ 3rd Workshop on Linked Data Quality	Workshop SumPre 2nd International Workshop on Summarizing and Presenting Entities and Ontologies	Tutorial LDF & Workshop ESWC DevWS Linked Data Fragments (LDF) & Developers Hackshop	Workshop SW4SH 2nd Int. Workshop on Semantic Web for Scientific Heritage	Workshop LiME 4th Workshop on Linked Media	Workshop RichMedSem Workshop on Extraction and Processing of Rich Semantics from Medical Texts	Tutorial LOD-Lab Join the LOD Lab! Scale your Linked Data evaluations to the Web	Tutorial Instance Matching Benchmarks	14:00 - 15:30
15:30 - 16:00	Coffee break								15:30 - 16:00
16:00 - 17:30	Workshop LDQ 3rd Workshop on Linked Data Quality	Workshop SumPre 2nd International Workshop on Summarizing and Presenting Entities and Ontologies	Tutorial LDF & Workshop ESWC DevWS Linked Data Fragments (LDF) & Developers Hackshop	Workshop SW4SH 2nd Int. Workshop on Semantic Web for Scientific Heritage	Workshop LiME 4th Workshop on Linked Media	Workshop RichMedSem Workshop on Extraction and Processing of Rich Semantics from Medical Texts	Tutorial LOD-Lab Join the LOD Lab! Scale your Linked Data evaluations to the Web	Tutorial Instance Matching Benchmarks	16:00 - 17:30

MON

PhD Symposium, Monday, May 30th, 2016

Time	Room Orpheas
09:00 - 09:30	Welcome & Intro to the PhD Symposium Chiara Ghidini & Simone Paolo Ponzetto
09:30 - 10:00	Machine-Crowd Annotation Workflow for Event Understanding across Collections and Domains Oana Inel
10:00 - 10:30	Semantics Driven Human-Machine Computation Framework for Linked Islamic Knowledge Engineering Amina Basharat
10:30 - 11:00	Coffee Break
11:00 - 11:30	Continuously Self-Updating Queries over Dynamic Heterogeneous Linked Data Ruben Taelman
11:30 - 12:00	Towards scalable federated context-aware stream reasoning Alexander Dejonghe
12:00 - 12:30	On Learnability of Constraints from RDF Data Emir Muñoz
12:30 - 14:00	Lunch
14:00 - 14:30	A knowledge-based framework for events representation and reuse from historical archives Marco Rovera
14:30 - 15:00	Unsupervised Conceptualization and Semantic Text Indexing for Information Extraction Eugen Ruppert
15:00 - 15:30	A Semantic Approach for Process Annotation and Similarity Analysis Tobias Weller
15:30 - 16:00	Coffee Break
16:00 - 16:30	Distributed Context-Aware Applications by means of Web of Things and Semantic Web Technologies Nicole Merkle
16:30 - 17:00	Exploiting disagreement through open-ended tasks for capturing interpretation spaces Benjamin Timmermans
17:00 - 17:15	Conclusions Chiara Ghidini & Simone Paolo Ponzetto

MAIN CONFERENCE PROGRAM →

Time	Room Hermes Apollon Track 1
09:00 - 09:30	ESWC Opening Ceremony
09:30 - 10:30	Keynote Speech Jim Hendler: "Wither OWL in a knowledge-graphed, Linked-Data World?" Session Chair: Harald Sack
10:30 - 11:00	Coffee Break
11:00 - 12:30	Session: Vocabularies, Schemas, Ontologies Session Chair: Rinke Hoekstra
11:00 - 11:30	An Ontology-driven Approach for Semantic Annotation of Documents with Specific Concepts Céline Alec, Chantal Reynaud and Brigitte Safar
11:30 - 12:00	Qanary - An Extensible Vocabulary for Open Question Answering Systems Andreas Both, Dennis Diefenbach, Kuldeep Singh, Saeedeh Shekarpour, Didier Cherix and Christoph Lange
12:00 - 12:30	Test-Driven Development of Ontologies C. Maria Keet and Agnieszka Lawrynowicz
12:30 - 14:00	Lunch
14:00 - 15:30	Session: Machine Learning Session Chair: Jens Lehmann
14:00 - 14:30	Enriching Product Ads with Metadata from HTML Annotations Petar Ristoski and Peter Mika
14:30 - 15:00	Comparing Vocabulary Term Recommendations using Association Rules and Learning To Rank: A User Study Johann Schaible, Pedro Szekely and Ansgar Scherp
15:00 - 15:30	 Efficient Approximation of Ontology Reasoning by Machine Learning Heiko Paulheim and Heiner Stuckenschmidt
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session: In-Use & Industrial Track Session Chair: Mike Lauruhn
16:00 - 16:30	 Predicting Drug-Drug Interactions through Large-Scale Similarity-Based Link Prediction Achille Fokoue, Mohammad Sadoghi, Otkie Hassanzadeh and Ping Zhang
16:30 - 17:00	Enriching a Small Artwork Collection through Semantic Linking Mauro Dragoni, Serena Villata, Sara Tonelli and Elena Cabrio
17:00 - 17:30	RMLEditor: A Graph-based Mapping Editor for Linked Data Mappings Pieter Heyvaert, Anastasia Dimou, Aron-Levi Herregodts, Ruben Verborgh, Dimitri Schuurman, Erik Mannens and Rik Van de Walle
17:30 - 18:30	Minute Madness Chairs: Nadine Steinmetz & Giuseppe Rizzo
19:00	Cocktails - Welcome Reception (Beach Bar Restaurant)

Time	Room Polymnia Erato Kalia Melpo Track 2
10:30 - 11:00	Coffee Break
11:00 - 12:30	Session: Semantic Data Management, Big data, Scalability Session Chair: Katja Hose
11:00 - 11:30	 RDF Query Relaxation Strategies Based on Failure Causes Géraud Fokou, Stephane Jean, Allel Hadjali and Mickael Baron
11:30 - 12:00	The Lazy Traveling Salesman – Memory Management for Large-Scale Link Discovery Axel-Cyrille Ngonga Ngomo and Mofeed Hassan
12:00 - 12:30	 Cyclades: A Decentralized Cache for Linked Data Fragments Folz Pauline, Hala Skaf-Molli and Pascal Molli
12:30 - 14:00	Lunch
14:00 - 15:30	Session: Semantic Data Management, Big data, Scalability Session Chair: Irini Fundulaki
14:00 - 14:30	LOTUS: Adaptive Text Search for Big Linked Data Filip Ilievski, Wouter Beek, Marieke Van Erp, Laurens Rietveld and Stefan Schlobach
14:30 - 15:00	Normalized Semantic Web Distance Tom De Nies, Christian Beecks, Frédéric Godin, Wesley De Neve, Grzegorz Stepień, Dörthe Arndt, Laurens De Vocht, Ruben Verborgh, Thomas Seidl, Erik Mannens and Rik Van de Walle
15:00 - 15:30	Implicit Entity Linking in Tweets Sujan Perera, Pablo Mendes, Adarsh Alex, Amit Sheth and Krishnaprasad Thirunarayan
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session: Linked Data Session Chair: Sébastien Ferré
16:00 - 16:30	„From Queriability to Informativity, assessing „Quality in Use“ of DBpedia and YAGO“ Tong Ruan, Yang Li, Haofen Wang and Liang Zhao
16:30 - 17:00	Detecting Similar Linked Datasets Using Topic Modelling Michael Röder, Axel-Cyrille Ngonga Ngomo, Ivan Ermilov and Andreas Both
17:00 - 17:30	Gleaning Types for Literals in RDF Triples with Application to Entity Summarization Kalpa Gunaratna, Krishnaprasad Thirunarayan, Amit Sheth and Gong Cheng



Candidate Best In-Use Paper



Candidate Best Research Paper



Highly Debated Paper

Time	Room Clio Track 3
10:30 - 11:00	Coffee Break
11:00 - 12:30	ESWC Challenges (1) Chair: Stefan Dietze & Anna Tordai
11:00 - 11:45	Open Knowledge Extraction (OKE) Challenge Anna Lisa Gentile & Andrea Nuzzolese
11:45 - 12:30	Challenge on Semantic Sentiment Analysis Mauro Dragoni
12:30 - 14:00	Lunch
14:00 - 15:30	ESWC Challenges (2) Chair: Stefan Dietze & Anna Tordai
14:00 - 14:45	6th Open Challenge on Question Answering over Linked Data (QALD-6) Christina Unger
14:45 - 15:30	Top-K Shortest Path in Large Typed RDF Graphs Challenge Ioannis Papadakis
15:30 - 16:00	Coffee Break
16:00 - 16:45	ESWC Challenges (3) Chair: Stefan Dietze & Anna Tordai
16:00 - 16:45	Semantic Publishing Challenge 2016 – Assessing the Quality of Scientific Output in its Ecosystem Angelo Di Iorio & Christoph Lange

Time	Room Hermes Apollon Track 1
09:15 - 09:30	Announcements
09:30 - 10:30	Keynote Speech Ernesto Damiani: "Controlling Leakage and Disclosure Risk in Semantic Big Data pipelines" Session Chair: Eva Blomqvist
10:30 - 11:00	Coffee Break
11:00 - 12:30	Session: Natural Language Processing and Information Retrieval Session Chair: Pablo N. Mendes
11:00 - 11:30	Towards Monitoring of Novel Statements in the News Michael Färber, Achim Rettinger and Andreas Harth
11:30 - 12:00	 Efficient Graph-based Document Similarity Christian Paul, Achim Rettinger, Aditya Mogadala, Craig Knoblock and Pedro Szekely
12:00 - 12:30	Multi-layered Linked Open Data Enrichment for Information Retrieval Francesco Corcoglioniti, Mauro Dragoni, Alessio Palmero Arosio and Marco Rospocher
12:30 - 14:00	Lunch
14:00 - 15:30	Session: Mobile Web, Sensors and Semantic Streams Session chair: Irene Celino
14:00 - 14:30	 Full-text Support for Publish/Subscribe Ontology Systems Lefteris Zervakis, Christos Tryfonopoulos, Spiros Skiadopoulos and Manolis Koubarakis
14:30 - 15:00	 Can a brute gang of facts on Stream Processing murder a theory on Reasoning? Riccardo Tommasini, Emanuele Della Valle, Marco Balduni and Daniele Dell'Aglio
15:00 - 15:30	(moved from Data management track) Query Rewriting in RDF Stream Processing Jean-Paul Calbimonte, Jose Mora and Oscar Corcho
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session: In-Use & Industrial Track Session Chair: Mike Lauruhn
16:00 - 16:30	Semantically Enhanced Quality Assurance in the JURION Business Use Case Dimitris Kontokostas, Christian Mader, Michael Leuthold, Christian Dirschl, Katja Eck, Jens Lehmann and Sebastian Hellmann
16:30 - 17:00	 Adaptive Linked Data-driven Web Components: Building Flexible and Reusable Semantic Web Interfaces Ali Khalili, Antonis Loizou and Frank van Harmelen
20:00	Conference Gala Dinner (Main Pool Area)



Candidate Best In-Use Paper



Candidate Best Research Paper



Highly Debated Paper

Time	Room Polymnia Erato Kalia Melpo Track 2
10:30 - 11:00	Coffee Break
11:00 - 12:30	Session: Trust, Privacy, and Recommendation Session chair: Axel Polleres
11:00 - 11:30	Provenance Management for Evolving RDF Datasets Argyro Avgoustaki, Giorgos Flouris, Irini Fundulaki and Dimitris Plexousakis
11:30 - 12:00	A Comparison of Techniques for Name-based Private Record Linkage Pawel Grzebala and Michelle Cheatham
12:00 - 12:30	 Intension-based Dataset Recommendation for Data Linking Mohamed Ben Ellefi, Zohra Bellahsene, Stefan Dietze and Konstantin Todorov
12:30 - 14:00	Lunch
14:00 - 15:30	Session: Linked Data Session chair: Maria Maleshkova
14:00 - 14:30	Heuristics for Connecting Heterogeneous Knowledge via FrameBase Jacobo Rouces, Gerard de Melo and Katja Hose
14:30 - 15:00	TermPicker: Enabling the Reuse of Vocabulary Terms by Exploiting Data from the Linked Open Data Cloud Johann Schaible, Thomas Gotttron and Ansgar Scherp
15:00 - 15:30	(moved from the API track) Linking Data, Services, and Human Know-How Paolo Pareti, Ewan Klein and Adam Barker
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session: Machine Learning Session Chair: Heiko Paulheim
16:00 - 16:30	Iterative Entity Navigation via Co-Clustering Semantic Links and Entity Classes Liang Zheng, Jiang Xu, Jidong Jiang, Yuzhong Qu and Gong Cheng
16:30 - 17:00	DoSeR - A Knowledge-Base-Agnostic Framework for Entity Disambiguation Using Semantic Embeddings Stefan Zwicklbauer, Christin Seifert and Michael Granitzer
17:00 - 17:30	Embedding Mapping Approaches for Tensor Factorization and Knowledge Graph Modelling Yinchong Yang, Cristóbal Esteban and Volker Tresp

Time	Room Clio Track 3
10:30 - 11:00	Coffee Break
11:00 - 11:30	EU Hobbit Workshop Session Chairs: Tom de Nies, Axel Ngonga
11:30 - 12:00	
12:00 - 12:30	
12:30 - 14:00	Lunch
14:00 - 14:30	EU Projekt Networking Session Session Chairs: Mauro Dragoni, Lyndon Nixon
14:30 - 15:00	
15:00 - 15:30	
15:30 - 16:00	Coffee Break



Candidate Best In-Use Paper



Candidate Best Research Paper



Highly Debated Paper

Time	Room Hermes Apollon Track 1
11:00 - 11:30	Coffee Break
11:30 - 12:30	Keynote Speech Eleni Pratsini: "Semanting Technologies in Business: are we there yet?" Chair: Mathieu d'Aquin
12:30 - 14:00	Lunch
14:00 - 15:30	Session: In-Use & Industrial Track Session Chair: Jacco van Ossenbruggen
14:00 - 14:30	Building the Seshat Ontology for a Global History Databank Rob Brennan, Kevin Feeney, Gavin Mendel-Gleason, Bojan Bozic, Peter Turchin, Harvey Whitehouse, Pieter Francois, Thomas E. Currie and Stephanie Grohmann
14:30 - 15:00	Ontology-based data access for Maritime Security Stefan Brüggemann, Konstantina Bereta, Guohui Xiao and Manolis Koubarakis
15:00 - 15:30	WarSampo Data Service and Semantic Portal for Publishing Linked Open Data about the Second World War History Eero Hyvönen, Erkki Heino, Petri Leskinen, Esko Ikkala, Mikko Koho, Minna Tamper, Jouni Tuominen and Eetu Mäkelä
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session: Smart Cities, Urban and Geospatial Data Session Chair: Jean-Paul Calbimonte
16:00 - 16:30	VOLT: A provenance-producing, transparent SPARQL proxy for the on-demand computation of spatiotemporally dependent Linked Data Blake Regalia, Krzysztof Janowicz and Song Gao
16:30 - 17:00	Learning to Classify Spatiotextual Entities in Maps Giorgos Giannopoulos, Nikos Karagiannakis, Dimitrios Skoutas and Spiros Athanasiou
17:00 - 17:30	Supporting Geo-Ontology Engineering through Spatial Data Analytics Gloria Re Calegari, Emanuela Carlino, Irene Celino and Diego Peroni
17:30	Closing and Award Ceremony

Time	Room Polymnia Erato Kalia Melpo Track 2
09:00 - 11:00	Posters & Demos Session Chairs: Nadine Steinmetz & Giuseppe Rizzo
11:00 - 11:30	Coffee Break
11:30 - 12:30	
12:30 - 14:00	Lunch
14:00 - 15:30	Session: Natural Language Processing and Information Retrieval Session Chair: Nathalie Aussenac Gilles
14:00 - 14:30	Bridging the Gap Between Formal Languages and Natural Languages with Zippers Sebastien Ferre
14:30 - 15:00	AskNow: A Framework for Natural Language Query Formalization in SPARQL Mohnish Dubey, Sourish Dasgupta, Ankit Sharma, Konrad Höffner and Jens Lehmann
15:00 - 15:30	Semantic Topic Compass – Classification based on Unsupervised Feature Ambiguity Gradation Amparo E. Cano, Hassan Saif, Harith Alani and Enrico Motta
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session: Reasoning Session Chair: Agnieszka Lawrynowicz
16:00 - 16:30	Supporting Arbitrary Custom Datatypes in RDF and SPARQL Maxime Lefrançois and Antoine Zimmermann
16:30 - 17:00	Handling Inconsistencies due to Class Disjointness in SPARQL Updates Albin Ahmeti, Diego Calvanese, Axel Polleres and Vadim Savenkov
17:00 - 17:30	A Contextualised Semantics for owl:sameAs Wouter Beek, Stefan Schlobach and Frank Van Harmelen

ESWC ACCEPTED POSTERS

3 | Moving Real-Time Linked Data Query Evaluation to the Client

Ruben Taelman, Ruben Verborgh, Pieter Colpaert, Erik Mannens and Rik Van de Walle

10 | Building a General Knowledge Base of Physical Objects for Robots

Valerio Basile, Elena Cabrio and Fabien Gandon

12 | Some Thoughts on OWL-Empowered SPARQL Query Optimization

Vassilis Papakonstantinou, Giorgos Flouris, Irini Fundulaki and Andrey Gubichev

15 | Edinburgh Associative Thesaurus as RDF and DBpedia Mapping

Jörn Hees, Rouven Bauer, Joachim Folz, Damian Borth and Andreas Dengel

17 | StaRe: Statistical Reasoning Tool for 5G Network Management

Kasper Apajalahti, Eero Hyvönen, Juha Niiranen and Vilho Räisänen

19 | Dem@Home: Ambient Monitoring and Clinical Support for People Living with Dementia

Thanos Stavropoulos, Georgios Meditskos, Thodoris Tsompanidis, Stelios Andreadis and Ioannis Kompatsiaris

20 | Pattern-Based Keyword Search on RDF Data

Ouksili Hanane, Zoubida Kedad, Stéphane Lopes and Sylvaine Nugier

23 | Connecting the Dots: Explaining Relationships Between Unconnected Entities in a Knowledge Graph

Nitish Aggarwal, Sumit Bhatia and Vinith Misra

25 | Iterative TempoWordNet

Mohammed Hasanuzzaman, Gaël Dias, Stéphane Ferrari and Yann Mathet

32 | An Ontology to Semantically Declare and Describe Functions

Ben De Meester, Anastasia Dimou, Ruben Verborgh, Erik Mannens and Rik Van de Walle

33 | Context Sensitive Entity Linking of Search Queries For Enterprise Knowledge Graphs

Sumit Bhatia and Anshu Jain

35 | Incorporating Functions in Mappings to Facilitate the Uplift of CSV Files into RDF

Ademar Crotti Junior, Christophe Debruyne and Declan O'Sullivan

39 | Automatic Extraction of Axioms from Wikipedia Using SPARQL

Lara Haidar-Ahmad, Amal Zouaq and Michel Gagnon

41 | Towards a Platform for Curation Technologies: Enriching Text Collections with a Semantic-Web Layer

Peter Bourgonje, Julian Moreno Schneider, Jan Nehring, Georg Rehm, Felix Sasaki and Ankit Srivastava

42 | Entity Summarisation on Structured Web Markup

Ran Yu, Ujwal Gadiraju, Xiaofei Zhu, Besnik Fetahu and Stefan Dietze

47 | Taking advantage of discursive properties for validating hierarchical semantic relations extracted from parallel enumerative structures

Mouna Kamel and Cassia Trojahn

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Tuesday 19:00 (Beach Bar Restaurant*)

CONFERENCE GALA DINNER

Wednesday 20:00 (Main Pool Area*)

*Possible changes will be announced at the conference.

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