



14th ESWC 2017

May 28th – June 1st 2017

Portorož, Slovenia



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Dobrodošli/Welcome to the 14th edition of ESWC!

At this year's ESWC we have an exciting mix of presentations of research results, demonstrations and industry experiences to look forward to. This year's two special tracks on multilinguality and transparency put emphasis on two important areas where Semantic Web technologies really can make an impact in today's society.

Emerging from its roots in AI and Web technology, the Semantic Web today is mainly a Web of linked data, upon which a plethora of services and applications for all possible domains is being proposed. Some of the core challenges that the Semantic Web aims at addressing are the heterogeneity of content and its volatile and rapidly changing nature, its uncertainty, provenance, and varying quality. This in combination with more traditional disciplines, such as logical modelling and reasoning, natural language processing, databases and data storage and access, machine learning, distributed systems, information retrieval and data mining, social networks, Web science and Web engi-

neering, shows the span of topics covered by this conference. The nine regular tracks, in combination with an in-use and applications track, and the two special tracks, constitute the main technical program of ESWC 2017.

The program also contains three exciting invited keynotes. Lora Aroyo (Professor Human Computer Interaction Vrije Universiteit Amsterdam, NL, and Visiting Professor at Columbia University in the City of New York, US) will focus on the notion of ambiguity, discussing how ambiguity can be captured and even taken advantage of by allowing for a diversity of interpretations. In particular she discusses how to represent this diversity and how to allow machines to deal with it. Kevin Crosbie (Chief Product Officer, RavenPack) will discuss the role of semantic intelligence in financial markets. In particular, he focuses on the challenges of turning unstructured content into structured data, given that many new kinds of alternative data (social media, satellite imagery, etc.) are being used to complement traditional data for use in predictive modelling for financial trading algorithms. John Sheridan (Digital Director, The National Archives) will discuss the use and benefits of semantic web technologies for digital archiving, in particular for managing heterogeneous metadata, dealing with uncertainty, and in areas such as provenance and trust.

The main scientific program of the conference comprises 51 papers. This program is complemented by a demonstration and poster session, in which researchers have the chance to present their latest results and advances in the form of live demos. In addition, the PhD Symposium program includes 10 contributions, describing research proposals and early results of PhD students in the field. This year's edition of ESWC's main scientific program presents a significant number of research papers with a focus on solving typical Semantic Web problems, such as entity linking, discoverability, etc., by using methods and techniques from areas such as machine learning and natural language processing, and reflecting in particular the current interest in deep learning. Work on both the fundamental development and use of Semantic Web technologies in relation to transparency is particularly interesting in view of current governmental and institutional open data initiatives.

The conference program also contains 12 workshops, 6 tutorials, and an EU Project Networking session. This year, an open call also allowed us to select and support five challenges. These associated events create an even more open, multidisciplinary, and cross-fertilizing environment at the conference, allowing for work-in-progress and practical results to be discussed. Workshops range from domain-focused topics, including the biomedical, scientific publishing, e-science, robotics, distributed ledgers, and scholarly fields, to more technology focused topics ranging from RDF stream processing, query processing, data quality and data evolution, to sentiment analysis and semantic deep learning. Tutorial topics span NLP, ontology engineering, and linked data, including specific tutorials on knowledge graphs and rule-based processing of data.

The General and Program Committee chairs would like to thank the many people who have been involved in preparing the ESWC 2017 event. First of all, our thanks go to the 24 track chairs and 360 reviewers, including 49 external reviewers, for ensuring a rigorous blind review process that led to an excellent scientific program and an average of four reviews per article. The scientific program was completed by an exciting selection of posters and demos chaired by Katja Hose and Heiko Paulheim. A special thanks goes also to our process improvement chair, Derek Doran, who helped us establish an improved quality assurance process during paper selection, ensuring the originality and quality of the research papers that were accepted to the conference.

Another special thanks go to the PhD symposium chairs, Rinke Hoekstra and Pascal Hitzler, who manages one of the key events at ESWC, the PhD symposium. The brilliant PhD students will become the future leaders of our field, and deserve both encouragement and mentoring, which Rinke and Pascal make sure we can provide. We also have a great selection of workshops and tutorials, as mentioned earlier, thanks to the commitment of our workshop chairs, Agnieszka Ławrynowicz and Fabio Ciravegna, and tutorial chairs, Anna Lisa Gentile and Sebastian Rudolph.

Thanks to our EU Project Networking session chairs, Lyndon Nixon and Maria Maleshkova, we have the opportunity to facilitate meetings and exciting discussions between leading European research projects, and between those projects and the general ESWC audience. Networking and sharing ideas between projects is a crucial success factor for such large research projects.

We are additionally grateful for the work and commitment of Monika Solanki, Mauro Dragoni, and all the individual challenges chairs, who successfully established a challenge track. The five challenges provide researchers and practitioners with the opportunity to compare their latest solutions in these challenge areas, ranging from topic-focused tasks such as Question Answering and Semantic Sentiment Analysis, to practical tasks such as Storage, Semantic Publishing and open Knowledge Extraction.

We thank STI International for supporting the conference organization, and particularly Alexander Wahler as the conference treasurer. YouVivo GmbH and Katharina Vosberg deserve special thanks for the professional support of the conference organization, and for solving all practical matters. Our local chair Marko Grobelnik also deserves a special thanks for selecting the venue and for together with his local organisers, Marija Kokelj, Monika Kropej, and Spela Sitar, arranging a great on-site experience for our conference attendees.

Further, we are very grateful to Ruben Verborgh, our publicity chair, who is keeping our community informed, and Venislav Georgiev, who administers the website. Of course we also thank our sponsors listed on the next pages, for their vital support of this edition of ESWC. We would like to stress the huge work achieved by the Semantic Technologies coordinators Lionel Medini and Luigi Asprino, who maintains and updates our ESWC mobile app, and published our conference dataset. A special thanks also to our proceedings chair, Olaf Hartig, who did an excellent job in preparing the proceedings volume, which can be downloaded from the conference website, with the kind support of Springer.

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STI Innsbruck is a founding member of STI International, a collaborative association of leading European and world wide initiatives, ensuring the success and sustainability of semantic technology development. STI Innsbruck utilizes this network, as well as contributing to it, in order to increase the impact of the research conducted within the institute. For more details on Semantics, check this interview with Frank Van Harmelen: "Search and you will find".

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<http://videolectures.net/>

Note

Keynote Speakers



Kevin Crosbie

Biography: Kevin is the head of product development at RavenPack where he leads the team that brings big data analytics to financial institutions, including the world's top banks and hedge-funds. Kevin has over 17 years of professional experience building data products in the fintech industry and has participated in multiple successful technology startups in Silicon Valley, Ireland and Spain. Kevin has a first-class honors degree in Computer Engineering, specializing in cryptography, from the University of Limerick and an Executive MBA from the IE Business School in Spain.

Bringing Semantic Intelligence to Financial Markets

The most successful hedge-funds in today's financial markets are consuming large amounts of alternative data, including satellite imagery, point-of-sale data, news, social media and publications from the web. This new trend is driven by the fact that traditional factors have become less predictive in recent years, requiring sophisticated investors to explore new data sources. The majority of this new alternative content is unstructured and hence must first be converted into structured analytics data in order to be used systematically. Instead of building such capabilities themselves, financial firms are turning towards companies that specialize in this field. In this talk, Kevin will discuss some of the practical challenges of giving structure to unstructured content, how entities and ontologies may be used to link data and the ways in which semantic intelligence can be derived for use in financial trading algorithms.



Lora Aroyo

Biography: Lora Aroyo is a Full Professor at the Web & Media group, Department of Computer Science, VU University Amsterdam, The Netherlands. Within the framework of the Network Institute she is involved in several research projects focussing on semantic search, recommendation systems and event-driven access to multimedia collections online. Typical application domains of digital humanities, cultural heritage, and interactive TV. She is also collaborating with the

IBM Watson team in NY on crowdsourcing ground truth data for the adaptation of the Watson system in medical domains.

Disrupting the Semantic Comfort Zone

Ambiguity in interpreting signs is not a new idea, yet the vast majority of research in machine interpretation of signals such as speech, language, images, video, audio, etc., tend to ignore ambiguity. This is evidenced by the fact that metrics for quality of machine understanding rely on a ground truth, in which each instance (a sentence, a photo, a sound clip, etc) is assigned a discrete label, or set of labels, and the machine's prediction for that instance is compared to the label to determine if it is correct. This determination yields the familiar precision, recall, accuracy, and f-measure metrics, but clearly presupposes that this determination can be made. CrowdTruth is a form of collective intelligence based on a vector representation that accommodates diverse interpretation perspectives and encourages human annotators to disagree with each other, in order to expose latent elements such as ambiguity and worker quality. In other words, CrowdTruth assumes that when annotators disagree on how to label an example, it is because the example is ambiguous, the worker isn't doing the right thing, or the task itself is not clear. In previous work on CrowdTruth, the focus was on how the disagreement signals from low quality workers and from unclear tasks can be isolated. Recently, we observed that disagreement can also signal ambiguity. The basic hypothesis is that, if workers disagree on the correct label for an example, then it will be more difficult for a machine to classify that example. The elaborate data analysis to determine if the source of the disagreement is ambiguity supports our intuition that low clarity signals ambiguity, while high clarity sentences quite obviously express one or more of the target relations. In this talk I will share the experiences and lessons learned on the path to understanding diversity in human interpretation and the ways to capture it as ground truth to enable machines to deal with such diversity.

Keynote Speakers



John Sheridan

Biography: As Digital Director, John is responsible for digital services, enabling The National Archives to fulfil its ambitions to become a digital archive by instinct and design. His role is to provide strategic direction, transform our digital offer, and to shape and drive forward our web-based services.

Prior to this role, John was Head of Legislation Services at The National Archives where he led the team responsible for creating the legislation.gov.uk website, as well overseeing the operation of the official Gazette. A former co-chair of the W3C e-Government Interest Group, John has a strong interest in web and data standards. He serves on the UK Government's Open Standards Board which sets data standards for use across government. John was an early pioneer of open data and remains active in that community.

John's academic background is in mathematics and information technology, with a degree in Mathematics and Computer Science from the University of Southampton and a Master's Degree in Information Technology from the University of Liverpool. John recently led, as Principal Investigator, an Arts and Humanities Research Council funded project, 'big data for law', exploring the application of data analytics to the statute book, winning the Halsbury Legal Award for Innovation.

Semantic Web technologies for Digital Archives

What will people in the future know of today? As the homes for our collective memory archives have a special role to play. Semantic Web technologies address some important needs for digital archives and are being ever more embraced by the archival community.

Archives face a big challenge. The use of digital technologies has profoundly shaped what types of record are created, captured, shared and made available. Digital records are not just documents or email but all sorts of content such as websites, threaded discussions, video, websites, structured datasets and even computer code. Yet, in the digital era, when so much is encoded as 0s and 1s there is no long term solution to the challenge of preservation. All archives can do is make the institutional commitment to continue to invest, through generations of technological change, in the engineering effort required for records to continue to be available.

The National Archives is one of the world's leading digital archives. Our Digital Records Infrastructure, which makes extensive use of RDF and SPARQL, is capable of safely, securely and actively preserving large quantities of data. Our Web Archive provides a comprehensive record of government on the web. We also lead the maintenance of a register of file format signatures that is used relied on by archives and other memory institutions around the world.

As a digital archive we provide value by preserving digital records, keeping them safe for the future. We maintain the context for the records so their evidential value can be understood in the context of their creation and continuing use. We produce records so that they are available for others to access, and we also enable use.

Semantic Web technologies play a key role in each of these areas and are integral to our approach for preserving, contextualising, presenting and enable use of digital records. This presentation will explain why and how we have used semantic web technologies for digital archiving and the benefits we have seen, for managing heterogeneous metadata and also in areas such a provenance and trust. It will explore new opportunities for archives from using Semantic Web technologies in particular around contextual description, with digital records increasingly contextualising each other. This is part of a shift to a more fluid approach where context grows with an archives collection and in relation to other collections. Finally it will also look at the challenges for archives with using Semantic Web technologies in particular around how best to manage uncertainty in our data as we increasingly use probabilistic approaches.



Note

Programme Summary

Workshops, Tutorials

Sunday, May 28th, 2017

	Adria I	Adria II	Mediterranea I	Mediterranea II	Aurora I	Aurora II	Aurora III
09:00 10:30	Modular Ontology Modeling with Ontology Design Patterns (tutorial, 09:00 -17:30)	Link Discovery - Algorithms, Approaches and Bench- marks (tutorial, 09:00 -12:30)	MEPDaW 2017 (workshop, 09:00 -17:30)	Semantic Web solutions for large-scale biomedical data analytics (SeWeBMeDA) (workshop, 09:00 -17:30)	Scientometrics Workshop (workshop, 09:00 -17:30)	3rd International Workshop at ESWC on Emotions, Modality, Sentiment Analysis and the Semantic Web (workshop, 09:00 -17:30)	2nd RDF Stream Processing Workshop (workshop, 09:00 -17:30)
10:30	Coffee break						
11:00 12:30							
12:30	Lunch						
14:00 15:30		Tutorial on Rule-based Processing of Dynamic Linked Data (tutorial, 14:00-17:30)					
15:30	Coffee break						
16:00 17:30							

Workshops, Tutorials

Monday, May 29th, 2017

	Adria I	Adria II	Mediterranea I	Mediterranea II	Aurora I	Aurora II	Aurora III
09:00 10:30	Linked Open Data for Semantics - aware Recommender Systems (tutorial, 09:00 -17:30)	How and Why Computers Read the Web (tutorial, 09:00 -12:30)	Applications of Semantic Web technologies in Robotics - ANSWER 17 (workshop, 09:00 -12:30)	LDQ: 4rth Workshop on Linked Data Quality (workshop, 09:00 -12:30)	Enabling Decentralised Scholarly Communication (workshop, 09:00 -12:30)		PhD Symposium (09:20 -17:15)
10:30	Coffee break						
11:00 12:30							
12:30	Lunch						
14:00 15:30		Getting Started With Knowledge Graphs (tutorial, 14:00 -17:30)	Semantic Deep Learning, SemDeep-17 (workshop, 14:00 -17:30)	3rd international workshop on Semantic Web for Scientific Heritage, SW4SH 2017 (workshop, 14:00 -17:30)	2nd Workshop on Semantics and Distributed Ledgers (workshop, 14:00 -17:30)	Querying the Web of Data (QuWeDa 2017, 14:00 -17:30)	
15:30	Coffee break						
16:00 17:30							

PhD Symposium

Monday, May 29th, 2017

9:20	Welcome
9:30	Sheeba Samuel. <i>Integrative Data Management for Reproducibility of Microscopy Experiments</i>
10:00	Sebastian Bader. <i>Automating the Dynamic Interactions of Semantic Web Components in Distributed Architectures</i>
10:30	Coffee break
11:00	Ruth Frimpong. <i>Ontology Matching Algorithms for Data Model Alignment in Big Data</i>
11:30	Pieter Heyvaert. <i>Ontology-Based Data Access Mapping Generation using Data, Schema, Query, and Mapping Knowledge</i>
12:00	Lucy McKenna. <i>Interlinking of Linked Data Resources for Domain Expert Users</i>
13:00	Networking lunch
14:00	Lama Saeeda. <i>Iterative Approach for Information Extraction and Ontology Learning from Textual Aviation Safety Reports</i>
14:30	Jens Pelzetter. <i>A Knowledge-Based Framework for Improving Accessibility of Web Sites</i>
15:00	Harsh Thakkar. <i>Towards an Open Extensible Framework for Empirical Benchmarking RDF Data Management Solutions: LITMUS</i>
15:30	Coffee break
16:00	Gilles Vandewiele. <i>Enhancing white-box machine learning processes by incorporating semantic background knowledge</i>
16:30	Erwin Filtz. <i>Building and Processing a Knowledge-Graph for Legal Data</i>
17:00	Closing
17:15	End of session

Main Conference Day

Tuesday, May 30th, 2017

	Track 1 - Room: Emerald	Track 2 Room: Mediteranea	Track 3 - Room: Adria
09:00-09:30	ESWC Opening Ceremony		
09:30 - 10:30	Keynote Speech Kevin Crosbie: "Bringing Semantic Intelligence to Financial Markets" Session Chair: Aldo Gangemi		
10:30-11:00	Coffee break		
11:00-12:30	SESSION: NLP 1 (ENTITIES) <i>Session Chair: Fabio Ciravegna</i>	SESSION: REASONING 1 <i>Session Chair: Claudia d'Amato</i>	ESWC CHALLENGES (1) <i>Chair: Monika Solanki</i>
11:00-11:30	All That Glitters is not Gold -- Rule-Based Curation of Reference Datasets for Named Entity Recognition and Entity Linking Kunal Jha, Michael Röder and Axel-Cyrille Ngonga Ngomo	Lean Kernels in Description Logics ★ Rafael Peñaloza, Carlos Mencía, Alexey Ignatiev and Joao Marques-Silva	11:00 - 11:15 Presentation of the challenges (submission, data, info, etc.) - Monika Solanki
11:30-12:00	Harnessing Diversity in Crowds and Machines for Better NER performance Oana Inel and Lora Aroyo	Learning Commonalities in RDF ★ Sara El Hassad, Francois Goasdoue and Helene Jaudoin	11:15 - 11:45 Semantic Publishing Challenge
12:00-12:30	Beyond Time: Dynamic Context-aware Entity Recommendation ★ Nam Khanh Tran, Tuan Tran and Claudia Niederée	Updating Wikipedia via DBpedia Mappings and SPARQL Albin Ahmeti, Javier D Fernández, Axel Polleres and Vadim Savenkov	11:45 - 12:15 Semantic Sentiment Analysis
12:30-14:00	Lunch		

	Track 1 - Room: Emerald	Track 2 Room: Mediteranea	Track 3 - Room: Adria
14:00-15:30	SESSION: LINKED DATA <i>Session Chair: Valentina Presutti</i>	SESSION: ONTOLOGIES 1 (DESIGN) <i>Session Chair: Heiko Paulheim</i>	ESWC CHALLENGES (2) <i>Chair: Monika Solanki</i>
14:00-14:30	Entity Deduplication on Scholarlydata Ziqi Zhang, Andrea Giovanni Nuzzolese and Anna Lisa Gentile	Chaudron: Extending DBpedia with measurements Julien Subercaze	Question Answering over Linked Data
14:30-15:00	Exploiting Source-Object Network to Resolve Object Conflicts in Linked Data Wenqiang Liu, Jun Liu, Haimeng Duan, Wei Hu and Bifan Wei	Rule-based OWL Modeling with ROWLTab Protégé Plugin Md Kamruzzaman Sarker, Adila A Krisnadhi, David Carral and Pascal Hitzler	Mighty Storage Challenge
15:00-15:30	Methods for Intrinsic Evaluation of Links in the Web of Data Cristina Sarasua, Steffen Staab and Matthias Thimm	SM4MQ: A Semantic Model for Multidimensional Queries Jovan Varga, Ekaterina Dobrokhotova, Oscar Romero, Torben Bach Pedersen and Christian Thomsen	Open Knowledge Extraction Challenge
15:30-16:00	Coffee break		
16:00-17:30	SESSION: MACHINE LEARNING 1 (LINKING) <i>Session Chair: Pascal Hitzler</i>	SESSION: MOBILE WEB, SENSORS AND STREAMS <i>Session Chair: Maria-Esther Vidal</i>	
16:00-16:30	WOMBAT: A Generalization Approach for Automatic Link Discovery Mohamed Ahmed Sherif, Axel-Cyrille Ngonga Ngomo and Jens Lehmann	AGACY Monitoring: a hybrid model for activity recognition and uncertainty handling Hela Sfar, Amel Bouzeghoub, Nathan Ramoly and Jérôme Boudy	
16:30-17:00	Online Relation Alignment for Linked Datasets Maria Koutraki, Nicoleta Preda and Dan Vodislav	Spatial Ontology-Mediated Query Answering over Mobility Streams ★ Patrik Schneider, Thomas Eiter and Josiane Xavier Parreira	
17:00-17:30	Synthesizing Knowledge Graphs for Link and Type Prediction Benchmarking Andre de Oliveira Melo and Heiko Paulheim	Optimizing the Performance for Concurrent RDF Stream Processing Queries Chan Le Van, Feng Gao and Muhammad Intizar Ali	
17:30-19:00	Panel: The Future of Proceedings Publication: the Perspective of the Semantic Web Community		
19:00	Welcome Reception		

Main Conference Day

Wednesday, May 31st, 2017

	Track 1 - Room: Emerald	Track 2 Room: Mediteranea	Track 3 - Room: Adria
09:15-09:30	Announcements		
09:30-10:30	Keynote Speech John Sheridan: "Semantic web technologies for digital archives" Session Chair: Diana Maynard		
10:30-11:00	Coffee break		
11:00-12:30	SESSION: SOCIAL MEDIA Session Chair: Lora Aroyo	SESSION: IN-USE 1 (OUT THERE IDEAS) Session chair: Paolo Bouquet	
11:00-11:30	A Semantic Graph-based Approach for Radicalisation Detection on Social Media Hassan Saif, Miriam Fernandez, Leon Kastler, Thomas Dickinson and Harith Alani	BalOnSe: Temporal Aspects of Dance Movement and its Ontological Representation Katerina El Raheb, Theofilos Mailis, Vladislav Ryzhikov and Yannis Ioannidis	
11:30-12:00	Crowdsourced Affinity: A Matter of Fact or Experience ★ Chun Lu, Milan Stankovic, Filip Radulovic and Philippe Laublet	From Data to City Indicators: A Knowledge Graph for Supporting Automatic Generation of Dashboards Henrique Santos, Victor Dantas, Vasco Furtado, Paulo Pinheiro and Deborah McGuinness	
12:00-12:30	Linked Data Notifications ★ Sarven Capadislji, Amy Guy, Christoph Lange, Sören Auer and Tim Berners-Lee	Reasoning on Engineering Knowledge: Applications and Desired Features Constantin Hildebrandt, Matthias Glawe, Andreas W Müller and Alexander Fay	
12:30-14:00	Lunch		

Main Conference Day

Wednesday, May 31st, 2017

	Track 1 - Room: Emerald	Track 2 Room: Mediteranea	Track 3 - Room: Adria
14:00-15:30	SESSION: TRANSPARENCY 1 <i>Session chair: Axel Polleres</i>	SESSION: IN-USE 2 (NETWORKS) <i>Session chair: Riccardo Tommasini</i>	EU PROJECT NETWORKING <i>Chair: Lyndon Nixon and Maria Maleshkova</i>
14:00-14:30	Adopting Semantic Technologies for Effective Corporate Transparency Maria Mora-Rodriguez, Ghislain Augste Atemezing and Chris Preist	A Compressed, Inference-enabled Encoding Scheme for RDF Stream Processing ★ Jeremy Lhez, Xiangnan Ren, Badre Belabbess and Olivier Curé	The European Research Council: Funding opportunities for investigator-driven frontier research (Miklos Nagy)
14:30-15:00	Modeling and Querying Greek Legislation using Semantic Web Technologies Ilias Chalkidis, Charalampos Nikolaou, Panagiotis Soursos and Manolis Koubarakis	A Hypercat-enabled Semantic Internet of Things Data Hub Ilias Tachmazidis, Sotiris Batsakis, John Davies, Alistair Duke, Mauro Vallati, Grigoris Antoniou and Sandra Stincic Clarke	14:45 - 15:30 Project Presentations I: 1. Data4UrbanMobility: Data-Driven Mobility Services for Smart Cities 2. KNOWMAK: Knowledge in the Making in the European Society 3. ALOOF: Autonomous Learning of the Meaning of Objects and its Application to Robotics 4. EW-Shopp: Supporting Event and Weather-based Data Analytics and Marketing along the Shopper Journey 5. VALCRI: Applying Semantic-web Technologies to Visual Analytics for Criminal Intelligence 6. The ALIGNED Method and Tools for Engineering AGILE Big Data Systems 7. BigDataOcean - Exploiting Oceans of Data for Maritime Applications
15:00-15:30	Removing Barriers to Transparency: a Case Study on the Use of Semantic Technologies to Tackle Procurement Data Inconsistency Giuseppe Futia, Alessio Melandri, Antonio Vetrò, Federico Morando and Juan Carlos De Martin	smartAPI: Towards a more intelligent network of Web APIs ★ Amrapali Zaveri, Shima Dastgheib, Trish Whetzel, Ruben Verborgh, Paul Avillach, Gabor Korodi, Raymond Terryn, Kathleen Jagodnik, Pedro Assis, Chunlei Wu and Michel Dumontier	
15:30-16:00	Coffee break		

	Track 1 - Room: Emerald	Track 2 Room: Mediteranea	Track 3 - Room: Adria
16:00-17:30	SESSION: NLP 2 <i>Session Chair: Diego Reforgiato</i>	SESSION: IN-USE 3 (DATA) <i>Session Chair: Ilaria Tiddi</i>	EU PROJECT NETWORKING <i>Chair: Lyndon Nixon and Maria Maleshkova</i>
16:00-16:30	Combining word and entity embeddings for entity linking Jose Moreno, Romaric Besançon, Romain Beaumont, Eva D'Hondt, Anne-Laure Ligozat, Sophie Rosset, Xavier Tannier and Brigitte Grau	Applying Semantic Web Technologies to Assess Maintenance Tasks from Operational Interruptions: A Use-Case at Airbus Ghislain Auguste Atemezing	16:00 - 16:45 Project Presentations II: 8. SPECIAL: Scalable Policy-aware Linked Data architecture for privacy, transparency and compliance 9. SUPERSEDE - Supporting Evolution and Adaptation of Personalized Software by Exploiting Contextual Data and End-user Feedback 10. euBusinessGraph 11. InVID - In Video Veritas, Verification of Social Media Video Content for the News Industry 12. WDAqua ITN: Answering Questions using Web Data 13. IASIS: Big Data for Supporting Precision Medicine and Public Health Policy-Making
16:30-17:00	Mapping Natural Language to Description Logic Bikash Gyawali, Anastasia Shimorina and Claire Gardent	ArmaTweet: Detecting Events by Semantic Tweet Analysis Alberto Tonon, Philippe Cudré-Mauroux, Vincent Lenders, Albert Blarer and Boris Motik	
17:00-17:30	Semantic Annotation of Data Processing Pipelines in Scientific Publications Sepideh Mesbah, Kyriakos Fragkeskos, Christoph Lofi, Alessandro Bozzon and Geert-Jan Houben	Declarative Data Transformations for Linked Data Generation: the case of DBpedia Ben De Meester, Wouter Maroy, Anastasia Dimou, Ruben Verborgh and Erik Mannens	16:45 - 17:30 Project Speed Dating
17:30-18:30	MINUTE MADNESS, CHAIRS: KATJA HOSE AND HEIKO PAULHEIM		
20:00	Gala dinner at the hotel beach		

Main Conference Day

Thursday, June 1st, 2017

	Track 1 - Room: Emerald	Track 2 Room: Mediteranea	Track 3 - Room: Adria
09:00-11:00	POSTERS & DEMOS <i>Session Chairs: Katja Hose and Heiko Paulheim</i>		
11:00-11:30	Coffee break		
11:30-12:30	Keynote Speech Lora Aroyo: "Disrupting the semantic comfort zone" <i>Chair: Eva Blomqvist</i>		
12:30-14:00	Lunch		
14:00-15:30	SESSION: MACHINE LEARNING 2 <i>Session Chair: Maria Maleshkova</i>	SESSION: ONTOLOGIES 2 <i>Session Chair: Peter Haase</i>	SESSION: CROSS-TRACK (Relevance) <i>Session Chair: Harald Sack</i>
14:00-14:30	Actively Learning to Rank Semantic Associations for Personalized Contextual Exploration of Knowledge Graphs Federico Bianchi, Matteo Palmonari, Marco Cremaschi and Elisabetta Fersini	Data-driven Joint Debugging of the DBpedia Mappings and Ontology Heiko Paulheim	Modeling Company Risk & Importance in Supply Graphs Lucas Carstens, Jochen L Leidner, Krzysztof Szymanski and Blake Howald
14:30-15:00	Embedding Learning for Declarative Memories Volker Tresp, Yunpu Ma, Stephan Baier and Yinchong Yang	Using insights from psychology and language to improve how people reason with Description Logics Paul Warren, Paul Mulholland, Trevor Collins and Enrico Motta	Tuning Personalized PageRank for Semantics-aware Recommendations based on Linked Open Data Cataldo Musto, Giovanni Semeraro, Marco De Gemmis and Pasquale Lops
15:00-15:30	Terminological Cluster Trees for Disjointness Axiom Discovery Giuseppe Rizzo, Claudia D'Amato, Nicola Fanizzi and Floriana Esposito	Patterns for Heterogeneous TBox Mappings to Bridge Different Modelling Decisions Pablo Fillottrani and C Maria Keet	Exploring Importance Measures for Summarizing RDF/S KBs Alexandros Pappas, Georgia Troullinou, Giannis Roussakis, Haridimos Kondylakis and Dimitris Plexousakis
15:30-16:00	Coffee break		

	Track 1 – Room: Emerald	Track 2 Room: Mediteranea	Track 3 – Room: Adria
16:00-17:30	SESSION: BIG DATA <i>Session Chair: Andrea Nuzzolese</i>	SESSION: TRANSPARENCY 2 <i>Session Chair: Amrapali Zaveri</i>	
16:00-16:30	Traffic Analytics for Linked Data Publishers Luca Costabello, Pierre-Yves Vandenbussche, Gofran Shukair, Corine Deliot and Neil Wilson	NdFluents: An Ontology for Annotating Statements in Linked Data José M Giménez-García, Antoine Zimmermann and Pierre Maret	
16:30-17:00	Explaining Graph Navigational Queries Valeria Fionda and Giuseppe Pirrò	Self-Enforcing Access Control for Encrypted RDF Javier D Fernández, Sabrina Kirrane, Axel Polleres and Simon Steyskal	
17:00-17:30	A SPARQL extension for generating RDF from heterogeneous formats Maxime Lefrançois, Antoine Zimmermann and Mohammad Noorani Bakerally	Ontology-Driven Unified Governance in Software Engineering: The PoolParty case study Monika Solanki, Christian Mader, Helmut Nagy, Margot Mückstein, Mahek Hanfi, Robert David and Andreas Koller	
17:30	Closing and Awards Session		

ESWC2017 Info

Wireless internet connection

High-speed wireless internet connection is available.

Coffee Breaks and Lunches

Two coffee breaks (morning and afternoon) will be served in front of the Emerald/Mediterranea/Adria Hall. The lunch buffet will take place at the Hotel Restaurant.

WELCOME RECEPTION

Tuesday, May 30th 2017 | 19:00

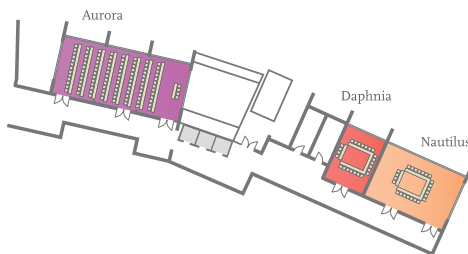
We will welcome you at the Terrace International by the St. Bernardin church, where we will relax and enjoy a stunning view over the sea (5 min walking distance from Histron and Hotel Vile Park).

GALA DINNER

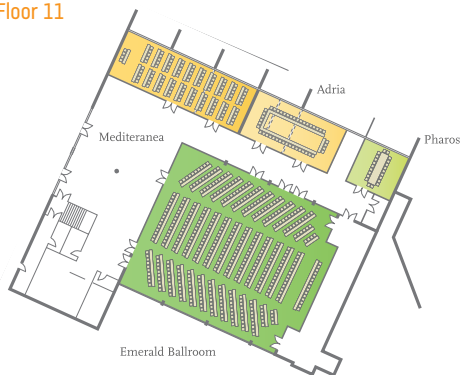
Wednesday, May 31st 2017 | 20:00

We will enjoy our gala dinner at the Grand Hotel Bernardin Beach Area in a company of a local band.

Floor 0



Floor 11



2017.eswc-conferences.org

ESWC2017 Conference Venue

LOCAL INFORMATION

Portorož is a seaside town in the heart of Europe. It has been a tourist destination as far back as the 13th century, when it developed a niche as a health resort, and towards the end of the 19th century it became widely known for the healing properties of its mud and salt water baths. Aside from spas, Portorož also plays host to various national and international conferences, exhibitions and trade fairs, which enables the city to maintain a bustling vibrant air throughout the entire year. It is characterized by the short distances between all the venues, which allows visitors to reach all the activities, business, social and cultural sites on foot.

And there is also Piran. The lovely Mediterranean town with a rich cultural heritage that lies at the tip of the Piran peninsula, near Portorož. The old town center, which is still perfectly preserved, is characterized by the stony narrow streets, compact houses, historical and religious buildings, beautiful Venetian palaces, lively squares, numerous museums and galleries, ancient town walls, its recently reopened aquarium and delicious restaurants. Portorož, with its sub-Mediterranean climate, is one of the warmest areas in Slovenia. The average temperature in June is 13°C – 27°C.



ESWC2017 Conference Venue

PRECONFERENCE WORKSHOPS & TUTORIALS

MAIN CONFERENCE

Grand hotel Bernardin 5*

Obala 2, 6320 Portorož, Slovenia

P: +386 (0)5 690 70 00

F: +386 (0)5 690 70 10

ONSITE REGISTRATION AND HELP DESK

Onsite registration will be open:

Saturday, May 28th: 16:00 – 17:00

Sunday, May 29st: 08:00 – 17:00

Monday, May 30th: 08:00 – 17:00

Tuesday, May 31st: 08:00 – 16:00

Wednesday, June 1st: 08:00 – 09:00

Help desk will be open

Sunday – Wednesday: 08:00 – 17:00

Please also check the board by the registration desk regularly, where we will put all relevant information, including:

- Schedules/rooms (possible changes)
- Social events information
- Local information
- Other

ABOUT GRAND HOTEL BERNARDIN *****

The St. Bernardin Convention Centre at the Grand Hotel Bernardin is an extensive venue, designed to facilitate the organisation of various events: conventions, seminars, workshops, presentations, press conferences and business meetings, as well as banquets, fashion shows and gala dinners. With a total of 19 multifunctional meeting rooms and divisible main hall for up to 1.100 delegates theatre style, the convention centre is the right venue for up to 2.615 delegates.

Grand Hotel Bernardin has 241 comfortably furnished rooms with balconies overlooking the sea. There are 10 luxury executive suites, 9 deluxe rooms and 7 mini-suites. Furthermore, the hotel boasts a swimming pool with heated sea water, Paradise Spa Wellness Centre, two restaurants, Pečina Restaurant and Sunset Restaurant, Grand Café and Cocktail Lounge with piano, Grand Garden Covered Terrace and Laguna Bernardin Water Park.



Note
