10th ESWC 2013
Semantics and Big Data

GENERAL CHAIR
Phillipp Cimiano | Bielefeld University, DE

PROGRAM CHAIRS
Valentina Presutti | STLab, ISTC-CNR, IT
Oscar Corcho | UPM, ES

LOCAL CHAIRS
Clement Jonquet | LIRMM, Université Montpellier 2, FR
François Scharffe | LIRMM, Université Montpellier 2, FR

May 26th – 30th, 2013, Montpellier, France

2013.eswc-conferences.org

Brought to you by:

STI · INTERNATIONAL

Table of Contents

ORGANIZING COMMITTEE

GENERAL CHAIR
Philipp Cimiano | Bielefeld University, DE

PROGRAM CHAIRS
Valentina Presutti | Institute of Cognitive Sciences
and Technologies, IT
Oscar Corcho | Ontology Engineering Group, UPM, ES

LOCAL CHAIRS
Clement Jonquet | LIRMM, Universite Montpellier 2, FR
François Scharffe | LIRMM, Universite Montpellier 2, FR

POSTER AND DEMO CHAIRS
Vanessa Lopez | IBM, Dublin, IR
Miriam Fernandez | The Knowledge Media Institute,
Open University, UK

WORKSHOPS CHAIR
Johanna Völker | University of Mannheim, DE

TUTORIALS CHAIR
Stefan Schlobach | Vrije Universiteit Amsterdam, NL

PHD SYMPOSIUM CHAIRS
Laura Hollink | Vrije Universiteit, Amsterdam, NL
Sebastian Rudolph | Karlsruhe Institute of Technology, DE

SEMANTIC TECHNOLOGIES COORDINATORS
Dieter Fensel | STI Innsbruck, AT
Birgit Leiter | STI Innsbruck, AT
Alex Oberhauser | STI Innsbruck, AT
Cord Wiljes | Bielefeld University, DE

PROJECT NETWORKING SESSION CHAIR
Achim Rettinger | Karlsruhe Institute of Technology, DE

SPONSORSHIP CHAIR
Axel Ngonga | University of Leipzig, DE

PUBLICITY CHAIR
Fabien Gandon | INRIA, FR

PANEL CHAIR
Marko Grobelnik | Jozef Stefan Institute Ljubljana, SI

PROCEEDINGS CHAIR
Katja Temnow | Bielefeld University, DE

TREASURER
Alexander Wahler | STI, DE

**LOCAL ORGANIZATION AND CONFERENCE
ADMINISTRATION**
STI International | AT

WEBMASTER
STI International | AT

TRACK CHAIRS

ONTOLOGIES
Aldo Gangemi | LIPN-Paris 13-Sorbonne Cite, FR
and STLab ISTC-CNR, IT
Eva Blomqvist | Linköping University, SE

REASONING
Pascal Hitzler | Wright State University Dayton, Ohio, US
Luciano Serafini | FBK, Trento, IT

SEMANTIC DATA MANAGEMENT
Maria Esther Vidal | Universidad Simon Bolivar, VE
Axel Polleres | Siemens AG, AT

LINKED OPEN DATA
Jun Zhao | University of Oxford, UK
Jens Lehmann | University of Leipzig, DE

SOCIAL WEB AND WEB SCIENCE
Marta Sabou | MODUL University Vienna, AT
Andreas Hotho | University of Würzburg, DE

NATURAL LANGUAGE PROCESSING
AND INFORMATION RETRIEVAL
Alfio Gliozzo | IBM Watson Research Center, US
Malvina Nissim | University of Bologna, Italy

MOBILE WEB, SENSORS AND SEMANTIC STREAMS
Josiane Parreira | DERI, IR
Payam Barnaghi | University of Surrey, UK

MACHINE LEARNING
Claudia d'Amato | University of Bari, IT
Dunja Mladenic | Jozef Stefan Institute Ljubljana, SI

SERVICES, PROCESSES AND CLOUD COMPUTING
Terry Payne | University of Liverpool, UK
José Luis Ambite | University of Southern California, US

SEMANTIC WEB FOR BIG DATA ANALYTICS IN REAL TIME
Sören Auer | University of Leipzig, DE
Peter Boncz | Vrije Universiteit Amsterdam, NL

COGNITION AND SEMANTIC WEB
Krzysztof Janowicz | University of California, Santa Barbara, US
Kai-Uwe Kuehnberger | Institute of Cognitive Science, University
of Osnabrück, DE

IN-USE AND INDUSTRIAL
Sofia Angeletou | BBC, UK
José Manuel Gómez-Pérez | iSOCO, ES

STEERING COMMITTEE

CHAIR
John Domingue | KMI, The Open University,
UK and STI International, AT

MEMBERS
Grigoris Antoniou | Forth, GR
Lora Aroyo | Vrije Universiteit, Amsterdam, NL
Fabio Ciravegna | University of Sheffield, UK
Marko Grobelnik | JSI, SI
Eero Hyvnen | Aalto University, FI
Axel Polleres | Siemens AG, AT
Elena Simperl | University of Southampton, UK
Paolo Traverso | FBK, IT

Program Committee Members

MEMBERS

Fabian Abel
Sven Abels
Benjamin Adams
Harith Alani
Renzo Angles
Lora Aroyo
Sören Auer
Nathalie Aussenac-Gilles
Claudio Baldassarre
Jie Bao
Pierpaolo Basile
Matthias Bauer
Sean Bechhofer
Paolo Bellavista
Dominik Benz
Bettina Berendt
Michael K. Bergman
Luis Bermudez
Isabelle Bichindaritz
Antonis Bikakis
Christian Bizer
Gosse Bouma
Paolo Bouquet
Marco Brambilla
Charalampos Bratsas
John Breslin
Christopher Brewster
Dan Brickley
Lorenz Bhmann
Paul Buitelaar

Elena Cabrio
Jean-Paul Calbimonte
David Carral
Gerard Casamayor
Jean Charlet
Vinay K. Chaudhri
Gong Cheng
Vassilis Christophides
Lin Clark
Michael Compton
Bonaventura Coppola
Paulo Costa
Isabel Cruz
Bernardo Cuenca Grau
John Davies
Brian Davis
Ernesto William De Luca
Emanuele Della Valle
Gianluca Demartini
Ian Dickinson
Stefan Dietze
Leigh Dodds
Martin Dzbor
Thomas Eiter
Henrik Eriksson
Orri Erling
Vadim Ermolayev
Jérôme Euzenat
James Fan
Nicola Fanizzi
Tim Finin

Flavius Frasincar
Irini Fundulaki
Fabien Gandon
Roberto Garcia
Manolis Gergatsoulis
Chiara Ghidini
Claudio Giuliano
Asunción Gómez-Pérez
John Goodwin
Jorge Gracia
Tom Grahame
Alasdair J. G. Gray
Gregory Grefenstette
Pierre Grenon
Gunnar Grimnes
Marko Grobelnik
Gerd Gröner
Paul Groth
Michael Gruninger
Christophe Guéret
Giancarlo Guizzardi
Peter Haase
Harry Halpin
Andreas Harth
Olaf Hartig
Oktie Hassanzadeh
Marek Hatala
Ralf Heese
Sebastian Hellmann
Cory Henson
Martin Hepp

Michiel Hildebrand
Rinke Hoekstra
Aidan Hogan
Matthew Horridge
Eero Hyvönen
Giovambattista Ianni
Robert Isele
Prateek Jain
Anja Jentzsch
Kristian Kersting
Haklae Kim
Ross King
Matthias Klusch
Spyros Kotoulas
Manolis Koubarakis
Markus Krötzsch
Udo Kruschwitz
Werner Kuhn
Christoph Lange
Josep-L. Larriba-Pey
Agnieszka Lawrynowicz
Danh Le Phuoc
Alessandro Lenci
Wenwen Li
Dong Liu
Yong Liu
Vanessa Lopez
José-Manuel López-Cobo
Frederick Maier
David Martin
Jarred McGinnis

Alexander Mehler
Roger Menday
Pablo N. Mendes
Sergi Mesquida
Peter Mika
Pascal Molli
Enrico Motta
Roberto Navigli
Adeline Nazarenko
Matteo Negri
Thomas Neumann
Axel-Cyrille Ngonga Ngomo
Matthias Nickles
Andriy Nikolov
Olaf Noppens
Andrea Giovanni
Nuzzolese
Alessandro Oltramari
Je Z. Pan
Massimo Paolucci
Alexandre Passant
Carlos Pedrinaci
Tassilo Pellegrini
Lushan Han
Silvio Peroni
Ricardo Pietrobon
H. Soa Pinto
Marco Pistore
Guilin Qi
Yuzhong Qu
Jorge-Arnulfo Quiané Ruiz

Yves Raimond
Dnyanesh Rajpathak
Jinghai Rao
Paul Rissen
Massimo Romanelli
Riccardo Rosati
Matthew Rowe
Edna Ruckhaus
Sebastian Rudolph
Carlos Ruiz
Harald Sack
Manuel Salvadores
Kurt Sandkuhl
Kai-Uwe Sattler
Bernhard Schandl
François Schaffe
Thomas Scharrenbach
Simon Scheider
Ansgar Scherp
Stefan Schlobach
Ute Schmid
Daniel Schwabe
Juan F. Sequeda
Barış Sertkaya
Amit Sheth
Pavel Shvaiko
Elena Simperl
Evren Sirin
Steen Staab
Claus Stadler
Milan Stankovic

Thomas Steiner
Markus Strohmaier
Heiner Stuckenschmidt
Mari Carmen Suárez-Figueroa
Fabian M. Suchanek
Vojtech Svátek
György Szarvas
Pedro Szekely
Kerry Taylor
Andreas Thor
Sara Tonelli
Thanh Tran
Volker Tresp
Tania Tudorache
Jörg Unbehauen
Jacopo Urbani
Alejandro A. Vaisman
Herbert Van De Sompel
Willem Robert Van Hage
Boris Villazón-Terrazas
Johanna Völker
Piek Vossen
Denny Vrandecic
Wei Wang
Chang Wang
Chonggang Wang
Wei Wang
Erik Wilde
Gregory Todd Williams
Fouad Zablith
Antoine Zimmermann

Introduction

Philipp Cimiano
General Chair

While it is sad to move away from good old Heraklion, where ESWC has regularly taken place, scientific communities need to be prepared to venture out into new and unknown territory when the moment has come. Leaving behind the beaten paths is vital for a well-functioning and innovative scientific community such as ESWC. In fact, we need all to venture out into new paths to arm ourselves for the scientific and societal challenges ahead of us.

The world is drowning in streams of data and we urgently need scalable techniques that can help us to make sense of all the data gathered around us, e.g. by our homes, by our mobile phones, by our favorite search engines and social media sites. Integration of heterogeneous streams of data and semantic interpretation of data in context will play a crucial role, and the Semantic Web community, given its strong emphasis on semantics, has an important role to play in this respect, but it needs to further invest in salable, semantics-centered approaches that can support the interpretation of data at the level of what it means and in terms of its implications on decision making, existing processes, etc. Scalable and efficient storage and querying, in particular of stream data, is certainly one important challenge. The design of analytic techniques that can sift through large and heterogeneous vol-umes and streams of data in real-time to deliver relevant answers and insights is equally important. In order to stimulate research in this direction, we have decided to consider „Semantics and Big Data" as motto for this 10th edition of ESWC. In order to foster the interaction with other disciplines and to inspire the ESWC research community to venture into new problems and challenges, the conference will also feature a special track on "Cognition and the Semantic Web".

ESWC 2013 features an exciting program including four keynote speakers: Enrico Motta (Knowledge Media Institute, Open University), David Karger (MIT) and Manfred Hauswirth (National University of Galway) as well as by Márta Nagy-Rothengass from the European Commission, who will give an invited talk during the EU Project Networking session. The program of the conference comprises 42 contributed paper talks (37 research and 5 in-use papers) in addition to a number of poster and demonstration presentations. Further, the conference program features 11 workshops, 7 tutorials as well as a PhD Symposium, an EU Project Networking session, a panel on the motto of the conference as well as a Semantic Mashup Challenge. We are also happy that OWLED has decided to collocate again their annual workshop with ESWC to

discuss future directions for the Web Ontology Language.

As general chair, I would like to thank everybody that has been involved in the organization of ESWC 2013, most importantly the PC Chairs Oscar Corcho and Valentina Presutti, who have done an excellent work in compiling a highly interesting and varied program. Further, I would like to thank the local chairs François Scharffe and Clement Jonquet for doing a great job with the local arrangements of the conference, but also in the acquisition of additional funding and sponsoring for the conference. Further, I would like to thank all our track chairs that have played a key role in helping the PC Chairs to select and compile an outstanding technical program: Aldo Gangemi, Eva Blomqvist, Pascal Hitzler, Luciano Serafini, María Esther Vidal, Axel Polleres, Jun Zhao, Jens Lehmann, Marta Sabou, Andreas Hotho, Alfio Gliozzo, Malvina Nissim, Josiane Parreira, Payam Barnaghi, Claudia d'Amato, Dunja Mladenic, Terry Payne, José Luis, Sören Auer, Peter Boncz, Krzysztof Janowicz, Kai-Uwe Kuehnberger, Sofia Angeletou, and José Manuel Gómez-Pérez.

Thanks go also to our PhD Symposium chairs Laura Hollink and Sebastian Rudolph, who have given their very best to contribute to the progress and education of our research offspring. I would also like to thank our workshop chair, Johanna Völker, as well as our tutorial chair, Stefan Schlobach, for putting together an exciting tutorial and workshop program that will surely attract the interest of many attendees of the conference. Vanessa Lopez and Miriam Fernández have done an excellent job in selecting a number of very interesting and relevant posters and demos for the conference. I am happy that Brigitte Endres-Niggemeyer, Giuseppe Di

Fabbrizio and Ioannis Papadakis have kindly agreed to organize again the AI Mashup Challenge, this year with the emphasis on "Semantic and intelligent mashups".
I would also like to thank Marko Grobelnik for chairing a panel on the motto of the conference and Achim Rettinger for organizing the European Project Networking Session. I am very grateful to Fabien Gandon as our publicity and communication chair for spreading news about the conference in a timely manner as well as to Axel Ngonga as our sponsorship chair for his help with the acquisition of sponsoring for the conference.

This conference would not have been possible without the support of STI International. We thank Serge Tymaniuk from STI for administrating the web site. Thanks also to our treasurer and financial officer Alex Wahler from STI for diligently taking care of the budget.
We would also like to acknowledge the great work of youvivo GmbH, in particular of Edith Leitner and Martina Hartl, in organizing the conference. Thanks also to our Proceedings Chair Katja Temnow and our four metadata chairs: Dieter Fensel, Birgit Leitner, Alex Oberhauser and Cord Wiljes.

Thanks to all our sponsors for their trust in ESWC.

May ESWC 2013 inspire you to venture out into new paths!

Bonne ESWC 2013!

9

ESWC2013 Sponsors and Supporters

LOCAL SUPPORT

Gold Sponsors

MONNET | The Monnet project develops a solution to the cross-language information access problem by using a novel combination of Machine Translation and Semantic Web Technology. Use cases are in business intelligence and public service access across language boundaries. Monnet targets this problem at the semantic level through a novel approach to cross-lingual information access that enriches state of the art machine translation with domain semantic (ontologies), terminological (taxonomies and term bases) and linguistic (corpora and lexical resources) information. **http://www.monnet-project.eu**

ONTOTEXT | Ontotext is a leading semantic software developer, offering the OWLIM database and platforms for semantic search, web mining, LINKED DATA MANAGEMENT and manual CONTENT annotation. Ontotext provides professional services for text mining and semantic data integration; it has a continuously growing network of partners, resellers and customers. **http://www.ontotext.com/**

VIDEOLECTURES.NET | VideoLectures.NET is an award-winning free and open access educational video lectures repository. The lectures are given by distinguished scholars and scientists at the most important and prominent events like conferences, summer schools, workshops and science promotional events from many fields of Science. The portal is aimed at promoting science, exchanging ideas and fostering knowledge sharing by providing high quality didactic contents not only to the scientific community but also to the general public. All lectures, accompanying documents, information and links are systematically selected and classified through the editorial process taking into account also users' comments. **http://videolectures.net/**

EU-Projects

BIG DATA PUBLIC-PRIVATE FORUM | Big Data is an emerging field where innovative technology offers alternatives to resolve the inherent problems that appear when working with huge amounts of data, providing new ways to reuse and extract value from information. Big Data Public Private Forum (BIG) is working towards the definition and implementation of a clear strategy that tackles the necessary efforts in terms of research and innovation, while also it provides a major boost for technology adoption and supporting actions for the successful implementation of the Big Data economy. Building an industrial community around Big Data in Europe is the priority of this project, together with setting up the necessary collaboration and dissemination infrastructure to link technology suppliers, integrators and leading user organizations. **http://big-project.eu/**

EFREIGHT: ENABLING INFORMATION SHARING FOR INTEROPERABLE FREIGHT TRANSPORT AND LOGISTICS | The project addresses the development, validation and demonstration of innovative e-Freight capabilities. e-Freight capabilities will be developed to support the following four main categories of e-Freight stakeholders: Transport users (shippers, freight forwarders, etc) to identify and use direct or combined transport services most suited for their purpose. Transport service providers in all modes to provide information about their services and exchange information electronically with relevant actors through planning, executing and completing transport operations; to set up of (liner) service networks adhering to co-modality principles for improved efficiency and end-to-end quality of surface freight transportation. Transport infrastructure providers to facilitate the best possible use of the complete transport infrastructure and support transport users by providing information about the available transport infrastructure and how to use it. Transport regulators to obtain in the simplest possible way the required information for monitoring compliance with applicable regulations, and to exchange information with other authorities for collaboration in security and environmental risk management. **http://www.efreightproject.eu/**

EUCLID | Linked Data has established itself as the de facto means for the publication of structured data over the Web, enjoying amazing growth in terms of the number of organizations committing to use its core principles for exposing and interlinking data sets for seamless exchange, integration, and reuse. More and more ICT ventures offer innovativedata management services on top of Linked (Open)

EU-Projects

Data, creating a demand for data practitioners possessing skills and detailed knowledge in this area. Ensuring the availability of such expertise will prove crucial if European businesses are to reap the full benefits of these advanced data management technologies, and the know how accumulated over the past years by researchers, technology enthusiasts and early adopters in various European Member States. EUCLID will contribute to this goal by providing a comprehensive educational curriculum, supported by multi modal learning materials and highly visible eLearning distribution channels, tailored to the real needs of data practitioners. Currently EUCLID provides its materials in several formats including: web (HTML), eBooks (ePub including for Kindle), iBooks (for Apple iPads). We also have a series of freely available webinars. See **http://www.euclid-project.eu/** for more details and to access our freely available materials.

....

LDBC: LINKED DATA BENCHMARK COUNCIL | Non-relational data management is emerging as a critical need for the new data economy based on large, distributed, heterogeneous, and complexly structured data sets. This new data management paradigm also provides an opportunity for research results to impact young innovative companies working on new RDF and graph data management technologies to start playing a significant role in this new data economy. Standards and benchmarking are two of the most important factors for the development of new information technology, yet there is still no comprehensive suite of benchmarks and benchmarking practices for RDF and graph databases, nor is there an authority for setting benchmark definitions and auditing official results. Without them, the future development and uptake of these technologies is at risk by not providing industry with clear, user-driven targets for performance and functionality. The goal of the Linked Data Benchmark Council (LDBC) project is to create the first comprehensive suite of open, fair and vendor-neutral benchmarks for RDF/graph databases together with the LDBC foundation which will define processes for obtaining, auditing and publishing results. The core scientific innovation of LDBC is therefore to define meaningful benchmarks derived from a combination of actual usage scenarios combined with the technical insight of top database systems researchers and architects in the choke points of current technology. LDBC will bring together a broad community of researchers and RDF and graph database vendors to establish an independent authority, the LDBC foundation, responsible for specifying benchmarks, benchmarking procedures and verifying/publishing results. The forum created will become a long-surviving, industry supported association similar to the TPC. Vendors and user organisations will participate in order to influence benchmark design and to make use of the obvious marketing opportunities. **http://www.ldbc.eu/**

EU-Projects

LINKEDUP | The LinkedUp project is a FP7 Support Action which pushes forward the exploitation and adoption of public, open data available on the Web, in particular by educational organisations and institutions. To address these goals, LinkedUp provides a range of activities, including the establishment of the LinkedUp Data Challenges and a corresponding evaluation framework. These are aimed at identifying and promoting innovative success stories which exploit large-scale Web data in educational scenarios as part of robust applications and tools. Additional dataset curation activities will result in a repository and catalog of well-described and assessed datasets for educational purposes and will support participants of the data challenge, as well as interested data consumers and application developers in general. The overall aim is to facilitate the development of innovative applications produced by the LinkedUp community and challenge participants and their deployment in real-world use case scenarios. A collection of suitable use cases have been collected by the LinkedUp consortium and representatives of associated organisations, including representatives from renowned industrial, academic and higher education institutions such as Elsevier, the BBC, or the Commonwealth of Learning. **http://linkedup-project.eu**

MSEE: MANUFACTURING SERVICE ECOSYSTEM | By 2015, novel service-oriented management methodologies and the Future Internet universal business infrastructure will enable European virtual factories and enterprises to self-organize in distributed, autonomous, interoperable, non-hierarchical innovation ecosystems of tangible and intangible manufacturing assets, to be virtually described, on-the-fly composed and dynamically delivered as a Service, end-to-end along the globalised value chain The MSEE 2015 Vision stems upon two complementary pillars, which have characterized the last ten years of research about Virtual Organizations, Factories and Enterprises: Service Oriented Architectures (SOA) and Digital Business Ecosystems (DBE). The first Grand Challenge for the MSEE project is to make SSME (Service Science, Management and Engineering) evolve towards Manufacturing Systems and Factories of the Future. The second Grand Challenge for the MSEE project is to transform current manufacturing hierarchical supply chains into manufacturing open ecosystems. The synthesis of the two Grand Challenges above in industrial business scenarios and their full adoption in some European test cases will result in new Virtual Factory Industrial Models, where service orientation and collaborative innovation will support a new renaissance of Europe in the global manufacturing context. **http://www.msee-ip.eu/**

EU-Projects

PEERASSIST: A P2P PLATFORM SUPPORTING VIRTUAL COMMUNITIES TO ASSIST INDEPENDENT LIVING OF SENIOR CITIZENS | The main scope of the PeerAssist project is the conceptualisation, design, implementation and demonstration of a flexible Peer-to-Peer (P2P) platform, which will allow elderly people (not necessarily familiar with ICT technologies) to build virtual communities dynamically based on interests and needs they share. The PeerAssist platform will facilitate establishing on demand ad-hoc communities with friends, family, neighbours, caregivers, facilitators, care providers, etc., based on shared interests and communication needs. The community building and the P2P interaction will be achieved using information extracted from peer roles, profiles and user modelling, context that describes the overall user environment, and the specific request initiated, or service provided, by a peer, all of which are represented semantically in a machine understandable form. **http://cnl.di.uoa.gr/peerassist/**

PLANETDATA | The PlanetData project aims to establish a sustainable European community of researchers that supports organizations in exposing their data in new and useful ways. PlanetData pushes forward the state-of-the-art in large-scale data management and its application to the creation of useful, open data sets. This is motivated by the increasing reliance of business on large public data; the uptake of open data principles in many vertical sectors; and the need of research communities to make sense out of petabytes of scientific data, to describe and expose this data in ways that encourage and enable collaboration. **http://planet-data.eu/**

PLPRELIDA: PRESERVING LINKED DATA | The PRELIDA project targets the particular stakeholders of the Linked Data community, including data providers, service providers, technology providers and end user communities. These stakeholders have not been traditionally targeted by the Digital Preservation community, and are typically not aware of the digital preservation solutions already available. Hence an important task of PRELIDA is to raise awareness of existing preservation solutions and to facilitate their uptake. At the same time, the Linked Data cloud has specific characteristics in terms of structuring, interlinkage, dynamicity and distribution, that pose new challenges to the preservation community. PRELIDA organises in-depth discussions among the two communities to identify which of these characteristics require novel solutions, and to develop road maps for addressing the new challenges. **http://www.prelida.eu/**

EU-Projects

PORTDIAL: LANGUAGE RESOURCES FOR PORTABLE MULTILINGUAL SPOKEN DIALOGUE SYSTEMS | Speech services are becoming an increasingly important market segment for Europe's SMEs. A major roadblock in producing low-cost high-quality spoken dialogue system (SDS) applications is the lack of linguistic resources that will enable the porting of SDS to new domains or languages. Currently, porting spoken dialogue systems to new domains is time-consuming, requires expertise in language engineering and iterative tuning. Although by now mature technologies exist that can facilitate SDS porting to new domains, e.g., ontology enrichment,linking text data to ontologies, automatic grammar induction, these technologies have not penetrated through to commercial systems yet. In PortDial, we bring together European SMEs that are developing state-of-the-art spoken dialogue systems and the handcrafted semantic components underlying such systems with research institutions at the forefront of progress in the automatic creation or enrichment of semantic language resources. Together with the commercial partners, we have identified a list of mature technologies that can help automate (or machine-assist) the process for the creation of SDS concepts, services and grammars. PortDial will result in :1) a commercial platform for quick prototyping of interactive spoken dialogue applications to new domains and languages, 2) the corresponding multilingual collections of concepts-services-grammars for specific application domains (marketed separately), and 3) a multilingual linked-data ontological corpus that can be freely used for spoken dialogue research and prototyping for non-commercial purposes. The resulting platform will reduce the effort for prototyping new application domains by up to 30%, and up to 50% for porting the application to new languages. The SDS linguistic resources will lower the barrier to entry for European SMEs to SDS technologies, allowing for inexpensive proof-of-concept demonstrator development, opening up new markets and application domains. **https://sites.google.com/site/portdial2/**

RENDER | The Web has proved to be an unprecedented success for facilitating the publication, use and exchange of information, at planetary scale, on virtually every topic, and representing an amazing diversity of opinions, viewpoints, mind sets and backgrounds. Its design principles and core technological components have lead to an unprecedented growth and mass collaboration. This trend is also finding increasing adoption in business environments. Nevertheless, the Web is also confronted with fundamental challenges with respect to the purposeful access, processing and management of these sheer amounts of information, whilst remaining true to its principles, and leveraging the diversity inherently unfolding through world wide scale collaboration. RENDER engages with these challenges by developing methods, techniques, software and data sets that will leverage diversity as a crucial source of innovation and creativity, whilst providing

EU-Projects

enhanced support for feasibly managing data at very large scale, and for designing novel algorithms that reflect diversity in the ways information is selected, ranked, aggregated, presented and used. In its final release RENDER's information management solution is tailored to scale to very large amounts of data and hundreds of thousands of users, but also to a plurality of points of views and opinions. This is demonstrated through the usage of realistic data sources with billions of items; through open source extensions to popular communication and collaboration platforms such as MediaWiki, Drupal, and Twitter; and through three high-profile case studies. RENDER contributes to a future where information is acquired and shared in a fundamentally different manner, making the existence of options and different viewpoints visible and explicit, thus influencing the way, in which communication and collaboration, across the borders of social, cultural or professional communities are realised. **http://render-project.eu/**

SUPPORT: SECURITY UPGRADE FOR PORTS | The project aims to raise the current level of port security by integrating legacy port systems with new surveillance and information management solutions. Ports will be given tools to establish the necessary and sufficient security level to satisfy evolving international regulations and standards while efficiently supporting the complexity of the real port environment. **http://www.supportproject.info/**

VPH-SHARE | VPH-Share is building a safe, online facility in which medical simulation developers can produce workflows . chains of processing tasks - to allow raw medical data to be refined into meaningful diagnostic and therapeutic information. Via an easy to use graphical interface, all the functions needed by workflow developers will be provided, including design, construction, data-access and storage, test, high-speed computations, sensitivity analyses and results presentations. By allowing users to work collaboratively, and concentrate only on the actual workflow design process, we estimate that over half the tasks usually associated with workflow project construction can be avoided. Huge savings in time can be made while complex interactions with infrastructure designers can be avoided. VPH-Share will have simple workflows running within minutes. More details can be found at: **http://www.vph-share.eu/**

Silver Sponsors

DATALIFT | The Datalift project aims at building a comprehensive platform allowing to realize the lifting of data coming from a variety of structured data sources into interlinked data published on the web of linked data. The lifting process is in four steps: ontology selection, data conversion, data interlinking, data publication, each supported by a number of tools based on state of the art techniques. Datalift is released as an open source modular platform.
http://datalift.org

ISOCO | iSOCO, Intelligent Software Components S.A. (www.isoco.com) is a technology company founded in 1999, becoming the first company in Spain and one of the first in Europe to offer solutions based on Semantic Web technologies. Currently, iSOCO employs around 100 persons in offices in Barcelona, Madrid, Valencia, and Pamplona. iSOCO has ample experience in international R&D activities, especially in the different EU Frame Programmes, and is successful in transferring research results in the field of Semantic Web technologies to the market. To this purpose iSOCO Lab, the Research branch of the company, was created in 2001 with three main objectives: maintain the technological level of the company, foster innovation to approach the market through new products, and pave the way for the application of new technologies to business.
http://www.isoco.com/

ONTOLOGOS | Ontologos Corp is the first French software editor having used a technology on a ontological basis. Our software solutions are supported by the methodology Os Way© structuring your professional terminology. Os Doc© being a methodology which enables you to create and enrich the reference tables of your professional know-how and terminology. The program can be seen as an internal multilingual search engine managing your documentation. Your terminology is edited in a dynamic way, it can be enriched by an interface to the internet. The second program Os Skill© is a talent management solution including a variety of aspects of day to day Human Resources management, it contains applications for companies recruitment processes enabling you to compare and chose the best candidates, also allowing to establish potential needs of training.
http://www.ontologos-corp.com

Silver Sponsors

ROBUST: RISK AND OPPORTUNITY MANAGEMENT OF HUGE-SCALE BUSINESS COMMUNITY COOPERATION | Online communities generate major economic value and form pivotal parts of corporate expertise management, marketing, product support, CRM, product innovation and advertising. Communities can exceed millions of users and infrastructures must support hundreds of millions discussion threads that link together billions of posts. ROBUST is targeted at developing methods to understand and manage the business, social and economic objectives of the users, providers and hosts and to meet the challenges of scale and growth in large communities. Hence, the objectives of ROBUST are to find solutions for community risk management, large scale data management, models of community polity and politics, community simulation and community data analysis.
http://www.robust-project.eu/

SIFR | The volume of data in biomedicine is constantly increasing. The community has turned toward ontologies to design semantic indexes of data; however there is a strong lack of French ontologies and related services. The Semantic Indexing of French Biomedical Data Resources (SIFR) project investigates the scientific and technical challenges in building ontology-based services to leverage biomedical ontologies and terminologies in indexing, mining and retrieval of French biomedical data. We build an ontology-based indexing workflow (i.e., French Annotator) similar to what exists for English resources but dedicated and specialized for French. Our main goal is to enable straightforward use of ontologies freeing health researchers to deal with knowledge engineering issues and to concentrate on the biological and medical challenges. SIFR will offer the French biomedical community (e.g., clinicians, health professionals, researchers) highly valuable ontology-based indexing services that will enhance their data production and consumption workflows. The SIFR project brings together several young researchers at LIRMM, University of Montpellier with highly qualified and experienced partners such as the US National Center for Biomedical Ontologies (NCBO, Stanford) and the French CISMeF group of Rouen University Hospital. The project is funded by ANR, UM2 & CNRS.
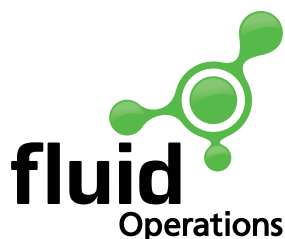**http://www.lirmm.fr/sifr**

YAHOO! LABS | Yahoo! Labs is pioneering the new sciences underlying the Web. As the center of scientific excellence here at Yahoo!, we deliver both fundamental and applied scientific leadership, publish research and create new technologies that power Yahoo!'s products. We're responsible for big inventions—and our goals are nothing short of inventing the future of the Internet and creating the next generation of businesses for Yahoo!.

Bronze Sponsors

EOWEO | Eoweo is a French company which goal is to develop innovative closed & open applications using semantic technologies and semantic standards. We work on our projects using innovative technologies collecting, analyzing and visualizing graph analysis as a unified way to organize and extract insights especially from the social web. Also we work as experts for our clients whenever they need to exploit structured and unstructured content, we conceptualize innovative solutions and services, and recommend the right framework or the products or source codes to use. Our areas of specialisation are the semantic web standards and technologies, the mining processes for french language, and new algorithms. Eoweo is Semsphere Certified and proudly STI2 associate member. **http://www.eoweo.com**

FLUID OPERATIONS® FLEXIBILITY COMES FIRST! | Fluid Operations® (fluidOps) is an innovative software company headquartered in Walldorf, Germany. Its focus lies on the research and development of novel technologies for intelligent cloud and data management in the enterprise. With the Information Workbench®, fluidOps delivers a highly customizable platform for Linked Data and Big Data management and solution development. This includes support for the semantic integration of heterogeneous data sources across the borders of individual domains, collaborative knowledge acquisition and augmentation, semantic search, business intelligence and analytics, as well as data visualization and exploration. fluidOps' Conference Explorer app won the Linked Data-a-Thon at the 2011 International Semantic Web Conference and was placed in the WWW 2012 Metadata Challenge. Gartner Analysts named fluidOps, "Cool Vendor in the SAP Ecosystem" in 2010. In 2012, fluid Operations won the "Best in Cloud" Award in the category "Infrastructure as a Service – Private Cloud". For more information about fluidOps and its products and solutions please visit **https://www.fluidops.com/**

Best Paper Award Sponsor

LOGILAB | Logilab is an innovative company specialized in the semantic web and scientific computing. Logilab initiated the CubicWeb semantic web framework, a piece of free software used for award-winning applications like http://data.bnf.fr/ the catalog of the french national library. Using CubicWeb, Logilab built its scientific computing platform, that offers simulation data management and high-perfomance computing services in the cloud. Logilab is developing at a rapid pace and always seeking talented and experienced people that want to work on projects that lead innovation in their domain. **http://www.logilab.org/**

Keynote Speakers

Enrico Motta,
Knowledge Media Institute
(KMi), UK

Prof. Enrico Motta is Professor in Knowledge Technologies at the Knowledge Media Institute (KMi) of the Open University in UK. His research spans a variety of aspects related to knowledge and media technologies, including ontology engineering, semantic web, knowledge-intensive problem solving, human-computer interaction, question answering, intelligent data integration, semantic search, and artificial intelligence. In particular much of his current work focuses on the integration of different types of computing technologies (such as, semantic, web, linguistic, and media technologies) to develop new solutions to the problem of locating and integrating information on the web and supporting users in making sense of complex models. He has authored over 280 refereed publications in international journals, conferences and workshops and his h-index is 48. Over the years he has been in charge of over 20 externally-funded projects, and was the Co-ordinator and Scientific Director of the NeOn Integrated Project, which focused on enabling efficient ontology engineering in a Semantic Web-centric context. Prof. Motta is Editor-in-Chief of the International Journal of Human-Computer Studies, and a member of the Editorial Boards of the Journal of Web Semantics and IEEE Intelligent Systems. He also sits on the steering committees for the International Semantic Web Conference and the European Conference on Knowledge Engineering and Management.

WHAT DOES IT MEAN TO BE SEMANTIC? ON THE EFFECTIVE USE OF SEMANTICS IN THE SEMANTIC WEB

Twelve years after the publication of the seminal article by Tim Berners-Lee, James Hendler and Ora Lassila, which expounded the vision of a Semantic Web characterised by dynamic and large scale agent interoperability, the Semantic Web still distinctly lacks a "wow factor". While many SW applications exist, they are characterised by few data sources put together at compile time to drive some relatively simple user functionality. In many cases it is difficult to identify the competitive advantage that 'being semantic' affords these applications, compared to systems built using conventional technologies. Of course, one could argue that this is not necessarily a problem: the success of an area is measured in terms of its academic vitality and its impact on commerce and society. In my talk I will analyse these issues by examining how the notion of semantics is used in our community, highlighting the productive and unproductive uses of the term, and describing the different ways in which semantics can be effectively exploited to provide added value to applications. The key message is that while there are many ways to exploit semantics to develop better functionalities, as a community we need to develop a better understanding (both fundamentally and pragmatically) of the value proposition afforded by the use of semantics. Without such understanding there is a risk that we will fail to take full advantage of the technologies that we are developing and the opportunities they create for us.

David Karger,
Massachusetts Institute of Technology
(MIT), US

David R. Karger is a Professor of Electrical Engineering and Computer Science at MIT's Computer Science and Artificial Intelligence Laboratory. David earned his Ph.D. at Stanford University in 1994 and has since contributed to many areas of computer science, publishing over 180 papers in algorithms, machine learning, information retrieval, personal information management, networking, peer to peer systems, coding theory, the semantic web, and human-computer interaction.

An ongoing interest has been to make it easier for people to create, find, organize, manipulate, and share information. He formed and leads the Haystack group to investigate the topic. A major theme has been to free people from the straightjacket of existing applications by giving them the ability to define and manage their own information schema and visualizations on the desktop and on the web. He co-led MIT's SIMILE project, a collaboration with MIT Libraries and the World Wide Web consortium developing Semantic-Web tools to improve the management and retrieval of information at the institutional level.

Professor Karger co-chaired the 2009 International Semantic Web Conference and has served on the program committees for CHI, WWW, STOC, FOCS, and SODA. He is a fellow of the Association for Computing Machinery.

A SEMANTIC WEB FOR END USERS

For whom are we creating the Semantic Web? As we wrestle with our ontologies, alignments, inference methods, entity extractions and triple stores, it's easy to lose track of the vast majority of users who have no idea what any of these things are, who they help, or what problems they'll solve.

In this talk, I'll adopt the perspective of these end users. I'll identify a number of information management problems faced by them---such as organizing their personal information, communicating effectively on the web, and handling their incoming information overload. The Semantic Web can play a key role in solving these problems. But what will matter most to end users is not the details of the Semantic Web's syntax, model, or algorithms, but rather the interfaces and workflows through which end users interact with it. I will describe key characteristics of these interfaces and workflows, and offer an overview of the research that needs to be done to develop them as effective solutions for end users.

Manfred Hauswirth,
Digital Enterprise Research Institute
(DERI), IE

Manfred Hauswirth is the Vice-Director of the Digital Enterprise Research Institute (DERI), Galway, Ireland and a professor at the National University of Ireland, Galway (NUIG). His current research focus is on linked data streams, semantic sensor networks, sensor networks middleware, large-scale semantics-enabled distributed information systems and applications. Manfred has also worked extensively in peer-to-peer systems, Internet of things, self-organization and self-management, service-oriented architectures and distributed systems security. He has published over 160 papers in these domains, he has co-authored a book on distributed software architectures and several book chapters on data management and semantics. He has served in over 180 program committees of international scientific conferences and was program co-chair of the Seventh IEEE International Conference on Peer-to-Peer Computing (IEEE P2P) in 2007, general chair of the Fifth European Semantic Web Conference (ESWC) in 2008, program co-chair of the 12th International Conference on Web Information System Engineering (WISE) in 2011, and program co-chair of the 10th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE) in 2011. He is a member of IEEE and ACM and is on the board of WISEN, the Irish Wireless Sensors Enterprise Led Network, the scientific board of the Corporate Semantic Web research center at FU Berlin, and the Scientific Advisory Board of the Center for Sensor Web Technologies (CLARITY) in Dublin, Ireland.

IT'S A DYNAMIC WORLD - UBIQUITOUS STREAMS AND THE LINKED DATA WEB

It is well established that we produce humongous amounts of information - technical infrastructures (smart grid, smart cities), the Social Web (Twitter, social networks, blogs), information systems (e-commerce, e-health), the media (newspapers, broadcasters), the Internet of Things, mobile phones, and many more - and that these amounts are growing exponentially. Linked Data gives us the technical means to network all this information and enables us to develop new forms of analytics on networked data from many sources instead of traditional "monolithic" data analytics. But this network of information is "in-discrete" as the data is produced continuously and at potentially high speeds with varying loads and demands on the producer and the consumer sides. This calls for new data/knowledge management approaches and as a result, the Linked Data world is slowly moving from a simplifying discrete model to a more realistic continuous view. This development impacts on and changes research problems in all areas and for all layers and requires well-orchestrated research efforts in and across research communities to support "streaming" as an integrated paradigm. In this talk, I will present a comprehensive stack of Linked Stream management approaches for all layers - from the Internet of Things to backend information systems, and will discuss the impact of streams on big data, analytics, and privacy.

Program Summary

Workshops
Sunday, May 26th, 2013

	Large Lecture Hall 1st floor	Lecture Hall 001 Groundfloor	Lecture Hall 002 Groundfloor	Classroom 003 Groundfloor	Classroom 101 1st floor	Classroom 102 1st floor	Classroom 201 2nd floor
09:00 -09:30	**Plenary** **Highlights of the day** **Session Chairs:** Johanna Völker, Stefan Schlobach						
09:30 - 10:30	**Workshop (2 days)** OWL: Experiences and Directions (OWLED)	**Workshop (1 day)** Services and Applications over Linked APIs and Data (SALAD)	**Workshop (1 day)** Semantic Publications (SePublica)	**Workshop (1/2 day)** Artificial Intelligence meets the Web of Data (AImWD)	**Workshop (1 day)** Usage Analysis and the Web of Data (USEWOD)	**Workshop (1 day)** Benchmarking RDF Systems (BerSys)	
10:30 - 11:00	**Coffee break**						
11:00 - 12:30	**Workshop** OWL: Experiences and Directions (OWLED)	**Workshop** Services and Applications over Linked APIs and Data (SALAD)	**Workshop** Semantic Publications (SePublica)	**Workshop** Artifical Intelligence meets the Web of Data (AImWD)	**Workshop** Usage Analysis and the Web of Data (USEWOD)	**Workshop** Benchmarking RDF Systems (BerSys)	
12:30 - 14:00	**Lunch break**						
14:00 - 15:30	**Workshop** OWL: Experiences and Directions (OWLED)	**Workshop** Services and Applications over Linked APIs and Data (SALAD)	**Workshop** Semantic Publications (SePublica)	**Workshop (1/2 day)** Social Media and Linked Data for Emergency Response (SMILE)	**Workshop** Usage Analysis and the Web of Data (USEWOD)	**Workshop** Benchmarking RDF Systems (BerSys)	**Workshop (1/2 day)** Knowledge Discovery and Data Mining meets Linked Open Data (Know@LOD)
15:30 - 16:00	**Coffee break**						
16:00 - 17:30	**Workshop** OWL: Experiences and Directions (OWLED)	**Workshop** Services and Applications over Linked APIs and Data (SALAD)	**Workshop** Semantic Publications (SePublica)	**Workshop** Social Media and Linked Data for Emergency Response (SMILE)	**Workshop** Usage Analysis and the Web of Data (USEWOD)	**Workshop** Benchmarking RDF Systems (BerSys)	**Workshop** Knowledge Discovery and Data Mining meets Linked Open Data (Know@LOD)

Workshops, Tutorials & PhD Symposium
Monday, May 27th, 2013

	Large Lecture Hall 1st floor	Lecture Hall 001 Groundfloor	Lecture Hall 002 Groundfloor	Classroom 003 Groundfloor	Classroom 013 Groundfloor	Classroom 101 1st floor	Classroom 102 1st floor	Classroom 201 2nd floor	Classroom 202 2nd floor
09:00 -09:30	**Plenary Highlights of the day Session Chairs:** Johanna Völker, Stefan Schlobach								
09:30 - 10:30	**Workshop (2 days)** OWL: Experiences and Directions (OWLED)	**Workshop (1 day)** Semantics for BioDiversity	**Workshop (1/2 day)** Debugging Ontologies and Ontology Mappings (WoDOOM)		**Phd Symposium (1day)**	**Tutorial (1/2 day)** Analyzing and Visualizing Linked Data with R (LODR2013)	**Tutorial (1day)** Crowdsourcing for the Semantic Web	**Tutorial (1day)** The new R2RML and Direct Mapping Standards, from Semantics to Practice (RDB2RDF)	**Tutorial (1/2 day)** Getting to know PROV - the W3C Provenance Specifications
10:30 - 11:00	**Coffee break**								
11:00 - 12:30	**Workshop** OWL: Experiences and Directions (OWLED)	**Workshop** Semantics for BioDiversity	**Workshop** Debugging Ontologies and Ontology Mappings (WoDOOM)		**Phd Symposium**	**Tutorial** Analyzing and Visualizing Linked Data with R (LODR2013	**Tutorial** Crowdsourcing for the Semantic Web	**Tutorial** The new R2RML and Direct Mapping Standards, from Semantics to Practice (RDB2RDF)	**Tutorial** Getting to know PROV - the W3C Provenance Specifications
12:30 - 14:00	**Lunch break**								
14:00 - 15:30	**Workshop** OWL: Experiences and Directions (OWLED)	**Workshop** Semantics for BioDiversity	**Workshop (1/2 day)** Semantic Web Collaborative Spaces (SWCS)	**Tutorial (1/2 day)** OWL plus Rules=.. ?	**Phd Symposium**	**Tutorial (1/2 day)** Cross-language text mining	**Tutorial** Crowdsourcing for the Semantic Web	**Tutorial** The new R2RML and Direct Mapping Standards, from Semantics to Practice (RDB2RDF)	**Tutorial** Semantic Data Management in Graph Databases
15:30 - 16:00	**Coffee break**								
16:00 - 17:30	**Workshop** OWL: Experiences and Directions (OWLED)	**Workshop** Semantics for BioDiversity	**Workshop** Semantic Web Collaborative Spaces (SWCS)	**Tutorial** OWL plus Rules=.. ?	**Phd Symposium**	**Tutorial** Cross-language text mining	**Tutorial** Crowdsourcing for the Semantic Web	**Tutorial** The new R2RML and Direct Mapping Standards, from Semantics to Practice (RDB2RDF)	**Tutorial** Semantic Data Management in Graph Databases

Main Conference Day

Tuesday, May 28th, 2013 (Le Corum)

	Room Einstein auditorium TRACK 1 Groundfloor	Room Joffre B/C/D TRACK 2 1st floor	Joffre 1 Area 1st floor
09:00 -09:15	**Welcome Address by General Chair and Local Representative**		
09:15 -10:30	**Keynote Speech** Session Chair: Valentina Presutti **Enrico Motta** "What does it mean to be semantic? On the effective use of semantics in the Semantic Web"		
10:30 - 11:00	**Coffee break (Joffre 1 Area)**		
11:00 - 13:00	**Natural language processing and knowledge extraction I** Session Chair: Harald Sack A Comparison of Knowledge Extraction Tools for the Semantic Web Aldo Gangem Constructing a Focused Taxonomy from a Document Collection Olena Medelyan | Steve Manion | Jeen Broekstra | Anna Divoli | Anna Lan Huang and Ian Witten A Support Framework for Argumentative Discussions Management in the Web Elena Cabrio | Serena Villata | Fabien Gandon Automatic expansion of DBpedia exploiting Wikipedia cross-language information Alessio Palmero Aprosio | Claudio Giuliano | Alberto Lavelli	**Ontology alignment and matching** Session chair: Eva Blomqvist A unified approach for aligning taxonomies and debugging taxonomies and their alignments Valentina Ivanova | Patrick Lambrix Opening the Black Box of Ontology Matching Duyhoa Ngo| Zohra Bellahsene | Konstantin Todorov Towards Evaluating Interactive Ontology Matching Tools Heiko Paulheim| Sven Hertling | Dominique Ritze A Session-based Approach for Aligning Large Ontologies Patrick Lambrix | Rajaram Kaliyaperumal	**Registration & Exhibition**
13:00 - 14:30	**Lunch break (Joffre 1 Area)**		
14:30 - 16:30	**Linked Data I** Session chair: Laura Hollink Detecting SPARQL Query Templates for Data Prefetching Johannes Lorey | Felix Naumann Synonym Analysis for Predicate Expansion Ziawasch Abedjan | Felix Naumann Instance-based ontological knowledge acquisition Lihua Zhao | Ryutaro Ichise Logical Linked Data Compression Amit Joshi | Pascal Hitzler | Guozhu Dong	**Semantic Data Management I** Session chair: José Manuel Gómez Pérez Lightweight Spatial Conjunctive Query Answering using Keywords Thomas Eiter| Thomas Krennwallner | Patrik Schneider Representation and querying of valid time of triples in linked geospatial data Konstantina Bereta| Panayiotis Smeros | Manolis Koubarakis **Reasoning** Session chair: Sebastian Rudolph Graph-based Ontology Classification in OWL 2 QL Domenico Lembo| Valerio Santarelli | Domenico Fabio Savo Querying RDFS with Attribute Equations via SPARQL Rewriting Stefan Bischof | Axel Polleres	**Registration & Exhibition**
16:30 - 17:00	**Coffee break (Joffre 1 Area)**		
17:00 - 18:30	**EU Project Networking Session**	**AI Mashup Challenge**	
19:00-21:30			**Poster and Demo Session (Joffre 1 Area)**

* 16:30-18:30 - ESWC Steering Committee, Organisational Committee and Track Chairs Meeting - Room Joffre 5

Main Conference Day

Wednesday, May 29th, 2013 (Le Corum)

	Room Einstein auditorium TRACK 1 Groundfloor	Room Joffre B/C/D TRACK 2 1st floor	Joffre 1 Area 1st floor
09:00 -10:30	**Keynote Speech** Session Chair: Philipp Cimiano **David Karger** "A Semantic Web for End Users"		
10:30 - 11:00	**Coffee break (Joffre 1 Area)**		
11:00 - 12:30	**Semantic Data Management II** Session chair: Axel Polleres When to Reach for the Cloud: Using Parallel Hardware for Link Discovery Axel-Cyrille Ngonga Ngomo|Lars Kolb|Norman Heino|Michael Hartung| Sören Auer | Erhard Rahm Even Commandments for Benchmarking Semantic Flow Processing Systems Thomas Scharrenbach | Jacopo Urbani | Alessandro Margara| Emanuele Della Valle | Abraham Bernstein No Size Fits All -- Running the Star Schema Benchmark with SPARQL and RDF Aggregate Views Benedikt Kämpgen | Andreas Harth	**Semantic Web In-Use I** Session chair: María Esther Vidal Publishing bibliographic records on the Web of data: opportunities for the BnF (French national Library) Romain Wenz| Adrien Di Mascio| Vincent Michel | Agnès Simon Hafslund Sesam -- an archive on semantics Lars Marius Garshol | Axel Borge Connecting the Smithsonian American Art Museum to the Linked Data Cloud Pedro Szekely| Craig Knoblock| Fengyu Yang| Xuming Zhu| Eleanor Fink| Rachel Allen | Georgina Goodlander	**Registration & Exhibition**
13:00 - 14:00	**Lunch break (Joffre 1 Area)**		
14:00 - 15:30	**Social Web and Web Science** Session chair: Fabien Gandon Measuring the Topical Specificity of Online Communities Matthew Rowe| Claudia Wagner | Markus Strohmaier Broadening the Scope of Nanopublications Tobias Kuhn| Paolo Emilio Barbano| Mate Levente Nagy | Michael Krauthammer The Wisdom of the Audience: An Empirical Study of Social Semantics in Twitter Streams Claudia Wagner| Philipp Singer| Lisa Posch | Markus Strohmaier	**Cognition and the Semantic Web** Session chair: Enrico Motta Collecting Links between Entities Ranked by Human Association Strengths Jörn Hees| Mohamed Khamis| Ralf Biedert | Slim Abdennadher | Andreas Dengel Personalized Concept-based Search and Exploration on the Web of Data using Results Categorization Melike Sah | Vincent Wade Combining a co-occurrence-based and a semantic Measure for Entity Linking Bernardo Pereira Nunes| Stefan Dietze| Marco Antonio Casanova| Ricardo Kawase| Besnik Fetahu | Wolfgang Nejdl	**Registration & Exhibition**
15:30 - 16:00	**Coffee break (Joffre 1 Area)**		
16:00 - 17:30	**Panel: Semantic Technologies for BigData Anlaytics: Challenges and Opportunities**		**Registration & Exhibition**
18:30	**Bus Departure - in front of Le Corum**		
	Conference Gala Dinner Session with Surprise Speech		

Main Conference Day

Thursday, May 30th, 2013 (Le Corum)

	Room Einstein auditorium **TRACK 1** Groundfloor	Room Joffre B/C/D **TRACK 2** 1st floor	Joffre 1 1st floor
09:00 -10:30	**Keynote Speech** Session Chair: Oscar Corcho **Manfred Hauswirth** It's a dynamic world - ubiquitous streams and the Linked Data Web		
10:30 - 11:00	**Coffee break (Joffre 1 Area)**		
11:00 - 13:00	**Linked Data II** Session chair: Olaf Hartig Access Control for HTTP Operations on Linked Data Luca Costabello| Serena Villata| Oscar Rodriguez Rocha | Fabien Gandon Bio2RDF Release 2: Improved coverage, interoperability and provenance of Life Science Linked Data Alison Callahan| Jose Cruz-Toledo| Peter Ansell | Michel Dumontie Observing Linked Data Dynamics Tobias Käfer| Ahmed Abdelrahman| Jürgen Umbrich| Patrick O'Byrne | Aidan Hogan A Systematic Investigation of Explicit and Implicit Schema Information on the Linked Open Data Cloud Thomas Gottron| Malte Knauf| Stefan Scheglmann | Ansgar Scherp	**Ontologies** Session chair: Aldo Gangemi Organizing Ontology Design Patterns as Ontology Pattern Languages Ricardo Falbo| Monalessa P. Barcellos| Julio Cesar Nardi | Giancarlo Guizzardi An Ontology Design Pattern for Cartographic Map Scale David Carral| Simon Scheider| Krzysztof Janowicz| Charles Vardeman| Adila A. Krisnadhi | Pascal Hitzler Locking for Concurrent Transactions on Ontologies Stefan Scheglmann| Steffen Staab| Matthias Thimm | Gerd Gröner Predicting the Understandability of OWL Inferences Tu Anh T. Nguyen| Richard Power| Paul Piwek | Sandra Williams	**Registration & Exhibition**
13:00 - 14:30	**Lunch break (Joffre 1 Area)**		
	Natural Language Processing and Knowledge Extraction II Session chair: Jens Lehmann Semantic Multimedia Information Retrieval Based on Contextual Descriptions Nadine Steinmetz | Harald Sack Multilingual semantic wiki based on Attempto Controlled English and Grammatical Framework Kaarel Kaljurand | Tobias Kuhn	**Semantic Web In-Use** Session chair: Vanessa Lopez Guiding the evolution of a multilingual ontology in a concrete setting Chiara Di Francescomarino| Mauro Dragoni| Chiara Ghidini| Salvador Sánchez Alonso | Julia Clemente Using BMEcat Catalogs as a Lever for Product Master Data on the Semantic Web Alex Stolz| Benedicto Rodriguez-Castro | Martin Hepp	**Registration & Exhibition**
14:30 - 16:30	**Machine Learning** Session chair: Marko Grobelnik COALA – Correlation-Aware Active Learning of Link Specifications Axel-Cyrille Ngonga Ngomo| Klaus Lyko | Victor Christen Transductive Inference for Class-Membership Propagation in Web Ontologies Pasquale Minervini| Claudia D'Amato| Nicola Fanizzi | Floriana Esposito	**Workshop/Tutorial/ Phd Symposium Summary** **Workshops/Tutorials** Stefan Schlobach | Johanna Völker **PhD symposium** Sebastian Rudolph|Laura Hollink	
16:30 - 17:30	**Closing and Award Ceremony**		

Sunday, May 26th

Workshop and Tutorial Day I

PLENARY
Large Lecture Hall | Sunday 26th | 09:00-09:30

HIGHLIGHTS OF THE DAY
Session Chair: Johanna Völker | Stefan Schlobach

WORKSHOPS

WORKSHOP: OWL: EXPERIENCES AND DIRECTIONS (OWLED)
Large Lecture Hall | Sunday 26th | 09:30 - 17:30
Mariano Rodriguez-Muro | Simon Jupp | Kavitha Srinivas

WORKSHOP: SERVICES AND APPLICATIONS OVER LINKED APIS AND DATA (SALAD)
Lecture Hall 001 | Sunday 26th | 09:30 - 17:30
Maria Maleshkova | Craig Knoblock | Ruben Verborgh | Steffen Stadtmüller

WORKSHOP: SEMANTIC PUBLICATIONS (SEPUBLICA)
Lecture Hall 002 | Sunday 26th | 09:30 - 17:30
Alexander Garcia | Christoph Lange | Robert Stevens | Phillip Lord

WORKSHOP: ARTIFICIAL INTELLIGENCE MEETS THE WEB OF DATA (AIMWD)
Classroom 003 | Sunday 26th | 09:30 - 12:30
Christophe Guéret | Dino Ienco | Francois Scharffe | Serena Villata

WORKSHOP: USAGE ANALYSIS AND THE WEB OF DATA (USEWOD)
Classroom 101 | Sunday 26th | 09:30 - 17:30
Bettina Berendt | Laura Hollink | Markus Luczak-Rösch | Knud Möller | David Valet

WORKSHOP: BENCHMARKING RDF SYSTEMS (BERSYS)
Classroom 102 | Sunday 26th | 09:30 - 17:30
Irini Fundulaki | Ioana Manolescu | Ioan Toma

WORKSHOP: SOCIAL MEDIA AND LINKED DATA FOR EMERGENCY RESPONSE (SMILE)
Classroom 003 | Sunday 26th | 14:00 - 17:30
Vitaveska Lanfranchi | Suvodeep Mazumdar | Eva Blomqvist | Christopher Brewster

**WORKSHOP: KNOWLEDGE DISCOVERY AND DATA MINING MEETS LINKED
OPEN DATA (KNOW@LOD)**
Classroom 201 | Sunday 26th | 14:00 - 17:30
Johanna Völker | Heiko Paulheim | Jens Lehmann | Mathias Niepert | Harald Sack

Monday, May 27th

Workshop and Tutorial Day II

TUTORIALS

TUTORIAL: ANALYZING AND VISUALIZING LINKED DATA WITH R (LODR2013)
Classroom 101 | Monday 27th | 09:30 - 12:30
Tomi Kauppinen, Aalto University
Willem Robert van Hage, VU University Amsterdam

TUTORIAL: CROWDSOURCING FOR THE SEMANTIC WEB
Classroom 102 | Monday 27th | 09:30 - 17:30
Elena Simperl, University of Southampton
Gianluca Demartini, University of Fribourg
Maribel Acosta, AIFB Karlsruhe

TUTORIAL: THE NEW R2RML AND DIRECT MAPPING STANDARDS, FROM SEMANTICS TO PRACTICE (RDB2RDF)
Classroom 201 | Monday 27th | 09:30 - 17:30
Juan F. Sequeda, University of Texas at Austin
Barry Norton, The University of Sheffield
Daniel P. Miranker, University of Texas
Maria Maleshkova, Karlsruhe Institute of Technology

TUTORIAL: GETTING TO KNOW PROV - THE W3C PROVENANCE SPECIFICATIONS
Classroom 202 | Monday 27th | 09:30 - 12:30
Paul Groth, VU University Amsterdam
Jun Zhao, University of Oxford
Olaf Hartig, University of Waterloo

TUTORIAL: OWL PLUS RULES=.. ?
Classroom 003 | Monday 27th | 14:00 - 17:30
David Carral Martinez, Kno.e.sis Center ,Wright State University
Matthias Knorr, CENTRIA, Universidade Nova de Lisboa
Adila Alfa Krisnadhi, Kno.e.sis Center, Wright State University

TUTORIAL: CROSS-LANGUAGE TEXT MINING
Classroom101 | Monday 27th | 14:00 - 17:30
Marta Ruiz Costa-jussà, Universitat Politècnica de Catalunya (UPC, Barcelona)
Patrik Lambert, Le Mans University

TUTORIAL: SEMANTIC DATA MANAGEMENT IN GRAPH DATABASES
Classroom 202 | Monday 27th | 14:00-17:30
Maria Esther Vidal, Universidad Simón Bolívar, Venezuela
Edna Ruckhaus, Universidad Simón Bolívar, Venezuela
Maribel Acosta, Institute AIFB, Karlsruhe Institute of Technology
Cosmin Basca, University of Zurich, Switzerland

WORKSHOPS

WORKSHOP: OWL: EXPERIENCES AND DIRECTIONS (OWLED)
Large Lecture Hall | Monday 27th | 09:30 - 17:30
Mariano Rodriguez-Muro | Simon Jupp | Kavitha Srinivas

WORKSHOP: SEMANTICS FOR BIODIVERSITY
Lecture Hall 001 | Monday 27th | 09:30 - 17:30
Pierre Larmande | Isabelle Mougenot | Clement Jonquet | Therese Libourel | Manuel Ruiz
Elizabeth Arnaud

WORKSHOP: DEBUGGING ONTOLOGIES AND ONTOLOGY MAPPINGS (WODOOM)
Lecture Hall 002 | Monday 27th | 09:30 - 12:30
Patrick Lambrix | Guilin Qi, Matthew Horridge | Bijan Parsia

WORKSHOP: SEMANTIC WEB COLLABORATIVE SPACES (SWCS)
Lecture Hall 002 | Monday 27th | 14:00 - 17:30
Pascal Molli | John Breslin | Hideaki Takeda | Sebastian Schaffert

PHD SYMPOSIUM

PhD Symposium | Room 013 | Monday 27th | 09:30 - 17:30
Chairs:
Laura Hollink, Vrije Universiteit, Amsterdam, The Netherlands
Sebastian Rudolph, Karlsruhe Institute of Technology, Germany

ORAL PRESENTATIONS

Guided Composition of Tasks With Logical Information Systems - Application
to Data Analysis Workflows in Bioinfomatics
Mouhamadou Ba

Maintaining Mappings Valid between Dynamic KOS
Julio Cesar Dos Reis

Ontology-supported document ranking for novelty search
Michael Färber

Interlinking Cross-Lingual RDF Data Sets
Tatiana Lesnikova

Storing and Provisioning Linked Data as a Service
Johannes Lorey

Semantic Web for the Humanities
Albert Meroño-Peñuela

Automatic Argumentation Extraction
Alan Sergeant

POSTER PRESENTATIONS (PHD SYMPOSIUM)

Event Matching using Semantic and Spatial Memories
Majed Ayyad

Trusting Semi-structured Web Data
Davide Ceolin

Towards cloud-based reasoning on linked data
Jules Chevalier

A Semantic-Based M2M Architecture to Aggregate Sensed Data
Amelie Gyrard

Linked Data Interfaces for Non-Expert Users
Patrick Hoefler

Knowledge Point-based Approach to Interlink Open Education Resources
Xinglong Ma

Augmented Reality Supported by Semantic Web Technologies
Tamás Matuszka.

Development and population of an elaborate formal ontology for clinical practice
knowledge representation
David Mendes

Search Result Ontologies for Digital Libraries
Emanuel Reiterer

Semantically assisted Workflow Patterns for the Social Web
Ioannis Stavrakantonakis.

Federated SPARQL query answering on demand
Ana I. Torre-Bastida

Tuesday, May 28th

Main Conference Day I

WELCOME ADDRESS
BY THE GENERAL CHAIR AND LOCAL REPRESENTATIVE
Room Einstein auditorium | Tuesday, May 28th | 09:00-09:15

KEYNOTE SPEECH
Room Einstein auditorium | Tuesday, May 28th | 09:15-10:30
Enrico Motta
"What does it mean to be semantic? On the effective use of semantics in the Semantic Web"

NATURAL LANGUAGE PROCESSING
AND KNOWLEDGE EXTRACTION I
Room Einstein auditorium | Tuesday, May 28th | 11:00-13:00
Session Chair: Harald Sack

A Comparison of Knowledge Extraction Tools for the Semantic Web
Aldo Gangemi

Constructing a Focused Taxonomy from a Document Collection
Olena Medelyan | Steve Manion | Jeen Broekstra | Anna Divoli | Anna Lan Huang and Ian Witten

A Support Framework for Argumentative Discussions Management in the Web
Elena Cabrio | Serena Villata | Fabien Gandon

Automatic expansion of DBpedia exploiting Wikipedia cross-language information
Alessio Palmero Aprosio | Claudio Giuliano | Alberto Lavelli

ONTOLOGY ALIGNMENT AND MATCHING
Room Joffre B/C/D | Tuesday, May 28th | 11:00-13:00
Session chair: Eva Blomqvist

A unified approach for aligning taxonomies and debugging taxonomies and their alignments
Valentina Ivanova | Patrick Lambrix

Opening the Black Box of Ontology Matching
Duyhoa Ngo| Zohra Bellahsene | Konstantin Todorov

Towards Evaluating Interactive Ontology Matching Tools
Heiko Paulheim| Sven Hertling | Dominique Ritze

A Session-based Approach for Aligning Large Ontologies
Patrick Lambrix | Rajaram Kaliyaperumal

LINKED DATA I
Room Einstein auditorium | Tuesday, May 28th | 14:30-16:30
Session chair: Laura Hollink

Detecting SPARQL Query Templates for Data Prefetching
Johannes Lorey | Felix Naumann

Synonym Analysis for Predicate Expansion
Ziawasch Abedjan | Felix Naumann

Instance-based ontological knowledge acquisition
Lihua Zhao | Ryutaro Ichise

Logical Linked Data Compression
Amit Joshi | Pascal Hitzler | Guozhu Dong

SEMANTIC DATA MANAGEMENT I
Room Joffre B/C/D | Tuesday, May 28th | 14:30-15:30
Session chair: José Manuel Gómez Pérez

Lightweight Spatial Conjunctive Query Answering using Keywords
Thomas Eiter| Thomas Krennwallner | Patrik Schneider

Representation and querying of valid time of triples in linked geospatial data
Konstantina Bereta| Panayiotis Smeros | Manolis Koubarakis

REASONING -
Room Joffre B/C/D | Tuesday, May 28th | 15:30-16:30
Session chair: Sebastian Rudolph

Graph-based Ontology Classification in OWL 2 QL
Domenico Lembo| Valerio Santarelli | Domenico Fabio Savo

Querying RDFS with Attribute Equations via SPARQL Rewriting
Stefan Bischof | Axel Polleres

EU PROJECT NETWORKING SESSION

Room Einstein auditorium | Tuesday, May 28th | 17:00-18:30
Session Chair: Achim Rettinger, KIT, Germany

The EU project networking track of the ESWC2013 will provide an opportunity for
* Knowledge sharing among EU projects
* Presentation and discussion of project results with ESWC participants
* Networking with Marta Nagy-Rothengass from the European Commission

Session I, 17:00-17:30
Invited Talk by Marta Nagy-Rothengass, European Commission
Session II, 17:30-18:30
Project presentations, demos and bilateral discussions
Session III, 19:00-21:30
Poster session co-located and parallel to the the regular poster session

PARTICIPATING PROJECTS

APPS FOR EUROPE | Turning Data into Business | **http://apps4europe.eu/**
CODE | Commercially Empowered Linked Open Data Ecosystems in Research | **http://code-research.eu/**
LINKEDUP | Linking Web Data for Education Project | **http://linkedup-project.eu/**
MONNET | Multilingual Ontologies for NetworkedKnowledge | **http://www.monnet-project.eu**
OPEN PHATS |Integrated Pharmacology Data | **http://www.openphacts.org/**
OPTIQUE | Scalable End-user Access to Big Data | **http://www.optique-project.eu/**
PLANETDATA |Network of Excellence training activities | **http://www.planet-data.eu/**
RENDER |Reflecting Knowledge Diversity | **http://render-project.eu/**
ROBUST |Risk and Opportunity management of huge-scale | **http://www.robust-project.eu/**
TELEIOS |Big Linked Earth Observation Data | **http://www.earthobservatory.eu/**
TransLectures | Transcription and Translation of Video Lectures | **http://www.translectures.eu/**
ViSTA-TV |Video Stream Analytics for Viewers in the TV Industry | **http://vista-tv.eu/**
XLIKE | EnvIronmental Services Infrastructure with Ontologies | **http://www.xlike.org/**

AI MASHUP CHALLENGE
Room Joffre B/C/D | Tuesday, May 28th | 17:00-18:30

Welcome and Introduction
Brigitte Endres-Niggemeyer

Cooking Assistance Mashup with Biologeek
Mariano Belaunde | Fré dé rique Pinson | Olivier Collin

Easygo: An Event-Centered Social Network
Yinuo Zhang, Hao Wu

MINI: Mashup for Identifying Noisy Infrastructure
Axel Schulz | Frederik Janssen | Jakob Karolus | Immanuel Schweizer

Twindex Fuorisalone
Marco Balduini | Emanuele Della Valle | Daniele Dell'Aglio | Themis Palpanas | Mikalai Tsytsarau | Cristian Confalonieri

SNARC – A Semantic Social News Aggregator
Ahmad Assaf | Aline Senart

Photo Odyssey: Creating Photography Itineraries in Realtime
Om P. Patri | Ketan Singh | Pedro Szekely

NERITS - A Machine Translation Mashup System Using Wikimeta and Linked Open Data
Kamel Nebhi | Luka Nerima | Eric Wehrli

The End + Appeal to Vote
Brigitte Endres-Niggemeyer

POSTER AND DEMO SESSION
Joffree 1 Area | Tuesday, May 28th | 19:00-21:30

DEMOS

01 LODatio: A Schema-Based Retrieval System for Linked Open Data at Web-scale.
Thomas Gottron | Ansgar Scherp | Bastian Krayer | Arne Peters

02 Payola: Collaborative Linked Data Analysis and Visualization Framework.
Jakub Klímek | Jirí Helmich | Martin Necaský

03 A system for aligning taxonomies and debugging taxonomies and their alignments.
Valentina Ivanova | Patrick Lambrix

04 ALASKA for Ontology Based Data Access.
Jean-François Baget | Madalina Croitoru | Bruno Paiva Lima Da Silva

05 Multilingual MoKi: how to manage multilingual ontologies in a Wiki.
Mauro Dragoni | Chiara Ghidini | Alessio Bosca

06 SAIM - One Step Closer to Zero-Configuration Link Discovery.
Klaus Lyko | Konrad Höffner | René Speck | Axel-Cyrille Ngonga Ngomo | Jens Lehmann

07 Linked Data Query Wizard: A Tabular Interface for the Semantic Web.
Patrick Hoefler | Michael Granitzer | Vedran Sabol | Stefanie Lindstaedt

08 Facilitating music information research with shared open vocabularies.
Alo Allik | György Fazekas | Simon Dixon | Mark Sandler

09 Exploratory search on the top of DBpedia chapters with the Discovery Hub application.
Nicolas Marie | Myriam Ribiere | Fabien Gandon | Damien Legrand

21 R2RML by Assertion: A Semi-Automatic Tool for Generating Customised R2RML Mappings.
Luis Neto | Vania Vidal | Marco Casanova | José Monteiro

22 Tipalo: a tool for the automatic typing of DBpedia Entities.
Andrea Giovanni Nuzzolese | Aldo Gangemi | Valentina Presutti | Francesco Draicchio |
Alberto Musetti | Paolo Ciancarini

23 Tracking and Analyzing The 2013 Italian Election.
Vuk Milicic | Jose Luis Redondo Garcia | Giuseppe Rizzo | Raphael Troncy

24 FRED: from natural language text to RDF and OWL in one click.
Francesco Draicchio | Aldo Gangemi | Valentina Presutti | Andrea Giovanni Nuzzolese

POSTERS

01 Trusted Facts: Triplifying Primary Research Data Enriched with Provenance Information.
Kai Schlegel | Sebastian Bayerl | Stefan Zwicklbauer | Florian Stegmaier | Christin Seifert |
Michael Granitzer | Harald Kosch

02 Semantic Hyperlocal Search for Parlance Mobile Spoken Dialogue System.
Panos Alexopoulos | Marie-Aude Aufaure | Nesrine Ben Mustapha | Hugues Bouchard |
James Henderson | Beibei Hu | Peter Mika | Joel Lang | José Manuel Gómez-Pérez |
Yves Vanrompay

03 Representation of Complex Expressions in RDF.
Sebastien Ferre

04 Representing and Querying Negative Knowledge in RDF.
Fariz Darari

13   Linked Open Ontology Cloud KOKO – Managing a System of Cross-domain Light-weight Ontologies.
Matias Frosterus | Jouni Tuominen | Sini Pessala | Katri Seppälä | Eero Hyvönen

14   A Semantic-Enabled Engine for Mobile Social Networks.
Ronald Chenu-Abente | Ilya Zaihrayeu | Fausto Giunchiglia

15   The Birds of the World Ontology AVIO.
Jouni Tuominen | Nina Laurenne | Mikko Koho and Eero Hyvönen

16   Exploring the Dynamics of Linked Data.
Tobias Käfer | Ahmed Abdelgayed | Jürgen Umbrich | Patrick O'Byrne | Aidan Hogan

17   Mad Swan: A Semantic Web Service Composition System.
George Markou | Ioannis Refanidis

18   Longitudinal Queries over Linked Census Data.
Albert Meroño-Peñuela | Rinke Hoekstra | Andrea Scharnhorst | Christophe Guéret | Ashkan Ashkpour

19   Deciphering Location Context – A Semantic Web Approach.
Zhenning Shangguan | Deborah McGuinness

20   Comparative Classifier Evaluation for Web-scale Taxonomies using Power Law.
Rohit Babbar | Ioannis Partalas | Cornelia Metzig | Eric Gaussier | Massih Amini

Wednesday, May 29th

Main Conference Day II

KEYNOTE SPEECH
Room Einstein auditorium | Wednesday, May 29th | 09:00-10:30
David Karger
"A Semantic Web for End Users"

SEMANTIC DATA MANAGEMENT II
Room Einstein auditorium | Wednesday, May 29th | 11:00-12:30
Session chair: Axel Polleres

When to Reach for the Cloud: Using Parallel Hardware for Link Discovery
Axel-Cyrille Ngonga Ngomo|Lars Kolb|Norman Heino|Michael Hartung| Sören Auer | Erhard Rahm

Even Commandments for Benchmarking Semantic Flow Processing Systems
Thomas Scharrenbach | Jacopo Urbani | Alessandro Margara| Emanuele Della Valle |
Abraham Bernstein

No Size Fits All -- Running the Star Schema Benchmark with SPARQL and RDF Aggregate Views
Benedikt Kämpgen | Andreas Harth.

SEMANTIC WEB IN-USE I
Room Joffre B/C/D | Wednesday, May 29th | 11:00-12:30
Session chair: María Esther Vidal

Publishing bibliographic records on the Web of data: opportunities for the BnF
(French national Library)
Romain Wenz| Adrien Di Mascio| Vincent Michel | Agnès Simon

Hafslund Sesam -- an archive on semantics
Lars Marius Garshol | Axel Borge

Connecting the Smithsonian American Art Museum to the Linked Data Cloud
Pedro Szekely| Craig Knoblock| Fengyu Yang| Xuming Zhu| Eleanor Fink| Rachel Allen | Georgina
Goodlander

SOCIAL WEB AND WEB SCIENCE
Room Einstein auditorium | Wednesday, May 29th | 14:00-15:30
Session chair: Fabien Gandon

Measuring the Topical Specificity of Online Communities
Matthew Rowe| Claudia Wagner | Markus Strohmaier

Broadening the Scope of Nanopublications
Tobias Kuhn| Paolo Emilio Barbano| Mate Levente Nagy | Michael Krauthammer

The Wisdom of the Audience: An Empirical Study of Social Semantics in Twitter Streams
Claudia Wagner| Philipp Singer| Lisa Posch | Markus Strohmaier

COGNITION AND THE SEMANTIC WEB
Room Joffre B/C/D | Wednesday, May 29th | 14:00-15:30
Session chair: Enrico Motta

Collecting Links between Entities Ranked by Human Association Strengths
Jörn Hees| Mohamed Khamis| Ralf Biedert| Slim Abdennadher | Andreas Dengel

Personalized Concept-based Search and Exploration on the Web of Data using Results Categorization
Melike Sah | Vincent Wade

Combining a co-occurrence-based and a semantic Measure for Entity Linking
Bernardo Pereira Nunes| Stefan Dietze| Marco Antonio Casanova| Ricardo Kawase| Besnik Fetahu |
Wolfgang Nejdl

PANEL: "SEMANTICS AND BIG DATA"
Room Einstein auditorium / Room Joffre B/C/D | Wednesday, May 29th | 16:00-17:30
Session chair: Marko Grobelnik

Panelists:
Enrico Motta (KMi)
Manfred Hauswirth (MIT)
John Davies (British Telecom)
Orri Erling (OpenLink)
José Manuel Gómez Pérez (ISOCO)

CONFERENCE GALA DINNER
Bus Departure - in front of le corum | Wednesday, May 29th | 18:30

ESWC 2013 CAMARGUE EVENING

Wednesday, 29th May 2013

YOUR EVENING
Departure by bus from the Corum | Wednesday, 29th May 2013 | 18:30

19:00
WELCOMING GUESTS

19:30
TRADITIONAL CAMARGUE SHOW

20:15
APPETIZER "XL"
With Flamenco musicians and dancers

21:30
SEATED DINNER, ACCOMPANIED WITH SOFT MUSIC BY DJ BRUNO

23:00
DANCE WITH DJ BRUNO

00:00 | 01:00 | 02:00
BUSTRANSFER
Last bus 02:00

Thursday, May 30th
Main Conference Day III

KEYNOTE SPEECH
Room Einstein auditorium | Thursday, May 30th | 09:00-10:30
Manfred Hauswirth

It's a dynamic world - ubiquitous streams and the Linked Data Web

LINKED DATA II
Room Einstein auditorium | Thursday, May 30th | 11:00-13:00
Session chair: Olaf Hartig

Access Control for HTTP Operations on Linked Data
Luca Costabello| Serena Villata| Oscar Rodriguez Rocha | Fabien Gandon

Bio2RDF Release 2: Improved coverage| interoperability and provenance of Life Science Linked Data
Alison Callahan| Jose Cruz-Toledo| Peter Ansell | Michel Dumontie

Observing Linked Data Dynamics
Tobias Käfer| Ahmed Abdelrahman| Jürgen Umbrich| Patrick O'Byrne | Aidan Hogan

A Systematic Investigation of Explicit and Implicit Schema Information on the Linked Open Data Cloud
Thomas Gottron| Malte Knauf| Stefan Scheglmann | Ansgar Scherp

ONTOLOGIES
Room Joffre B/C/D | Thursday, May 30th | 11:00-13:00
Session chair: Aldo Gangemi

Organizing Ontology Design Patterns as Ontology Pattern Languages
Ricardo Falbo| Monalessa P. Barcellos| Julio Cesar Nardi | Giancarlo Guizzardi

An Ontology Design Pattern for Cartographic Map Scale
David Carral| Simon Scheider| Krzysztof Janowicz| Charles Vardeman| Adila A. Krisnadhi | Pascal Hitzler

Locking for Concurrent Transactions on Ontologies
Stefan Scheglmann| Steffen Staab| Matthias Thimm | Gerd Gröner

Predicting the Understandability of OWL Inferences
Tu Anh T. Nguyen| Richard Power| Paul Piwek | Sandra Williams

NATURAL LANGUAGE PROCESSING AND KNOWLEDGE EXTRACTION II
Room Einstein auditorium | Thursday, May 30th | 14:30-16:30
Session chair: Jens Lehmann

Semantic Multimedia Information Retrieval Based on Contextual Descriptions
Nadine Steinmetz | Harald Sack

Multilingual semantic wiki based on Attempto Controlled English and Grammatical Framework
Kaarel Kaljurand | Tobias Kuhn

SEMANTIC WEB IN-USE
Room Joffre B/C/D| Thursday, May 30th | 14:30-16:30
Session chair: Vanessa Lopez

Guiding the evolution of a multilingual ontology in a concrete setting
Chiara Di Francescomarino| Mauro Dragoni| Chiara Ghidini| Salvador Sánchez Alonso | Julia Clemente

Using BMEcat Catalogs as a Lever for Product Master Data on the Semantic Web
Alex Stolz| Benedicto Rodriguez-Castro | Martin Hepp

MACHINE LEARNING
Room Einstein auditorium | Thursday, May 30th | 14:30-16:30
Session chair: Marko Grobelnik

COALA – Correlation-Aware Active Learning of Link Specifications
Axel-Cyrille Ngonga Ngomo| Klaus Lyko | Victor Christen.

Transductive Inference for Class-Membership Propagation in Web Ontologies
Pasquale Minervini| Claudia D'Amato| Nicola Fanizzi | Floriana Esposito

WORKSHOP/TUTORIAL/PHD SYMPOSIUM SUMMARY
Room Joffre B/C/D| Thursday, May 30th | 14:30-16:30

Workshops/Tutorials
Johanna Völker | Stefan Schlobach

PhD symposium
Sebastian Rudolph|Laura Holling

CLOSING AND AWARD CEREMONY
Thursday, May 30th | 16:30-17:30

Schedules are indicative and may be modified or adapted.

ESWC2013 Venues

PRECONFERENCE WORKSHOPS & TUTORIALS

POLYTECH UNIVERSITY
Montpellier 2
Building #31
Place Eugene Bataillon
34095 Montpellier
Cedex 5

MAIN CONFERENCE

LE CORUM
Esplanade Charles de Gaulle
BP 2200,
34027 Montpellier
Cedex 01

REGISTRATION DESK
Both Venues feature a registration desk for check in. Participants must check in prior to the conference. With check in all participants will receive the necessary documents & information for the conference. On site registration is possible.
Accepted methods of payment:
Cash, Credit Card

OPENING HOURS
Polytech University
Sunday .... 08:00 - 18:00
Monday .... 08:00 - 18:00
Le Corum
Tuesday.. 08:00 - 22:00
Wednesday .... 08:00 - 18:30
Thursday .... 08:00 - 18:30

STI · INTERNATIONAL

STI International is a global network carrying out research, education, innovation and commercialization activities on semantic technologies facilitating their deployment within industry and society at large.

STI International is organized as a collaborative association of interested scientific, industrial and governmental parties that share a common vision. STI International was kicked off in January 2007 in Berlin. STI International sets up its own research infrastructure and implements public and internal services that support the individual partner organizations in der research collaboration, standardization, dissemination and exploitation activities. STI International is active on an international level.

Neubaugasse 10/15 | A-1070 Vienna | p: +43 1 23 64 002-99 | e: office@sti2.org | w: www.sti2.org