

20-22 oct 2010

4th Metadata & Semantics research
conference

Fourth International Conference on Metadata and
Semantics Research
MTSR'2010

Alcalá de Henares, Madrid, Spain
October 20th-22nd



Venue

The meeting will take place in the Faculty of Law (Facultad de Derecho, in Spanish), in the city center of Alcalá de Henares. The following picture is the main entrance of the building, to find the rooms, just get in the building using this main entrance and you will see help signs indicating the path to follow.



Alcala de Henares is the birthplace of Miguel de Cervantes, author of “Don Quixote”. The city was declared a World Heritage Site by UNESCO a few years ago. Its rich monumental heritage, formed by churches, convents and university buildings, gives us a glimpse of life in the Castilla Region during the Spanish Golden Age. Thursday afternoon all of you are invited to a tourist guide to Alcala Heritage.

For more details on the location of the building, hotels and other interest places, check out our Google map by clicking [here](#). Also you can find a tourist map at the following page.



1. Recinto amurallado
2. Puerta de Madrid
3. Palacio Arzobispal
4. Monasterio y Museo de San Bernardo
5. Convento de Dominicos de la Madre de Dios. Museo Arqueológico Regional
6. Oratorio de San Felipe Neri
7. Museo-Casa Natal de Cervantes
8. Hospital de Antezana
9. Convento de la Imagen
10. Teatro-Salón Cervantes
11. Convento de San Juan de la Penitencia. Museo
12. Colegio del Rey. Instituto Cervantes
13. Colegio e Iglesia de Jesuitas. Facultad de Derecho e Iglesia de Santa María
14. Colegio de San Pedro y San Pablo
15. Colegio Mayor de San Ildefonso. Universidad de Alcalá
16. Capilla de San Ildefonso
17. Corral de Comedias
18. Ayuntamiento
19. Oficina de Turismo-Plaza de Cervantes
20. Plaza de Cervantes
21. Capillas de Antezama y del Oidor. Centro de Interpretación "Los Universos de Cervantes". Torre de Santa María
22. Hostería del Estudiante-Parador de Turismo
23. Ermita de los Doctrinos
24. Convento del Corpus Christi
25. Archivo General de la Administración
26. Convento de San Basilio Magno
27. Colegio de Málaga. Facultad de Filosofía y Letras
28. Convento de Santa Úrsula
29. Convento de Agustinas
30. Colegio de los Irlandeses
31. Catedral Magistral de los Santos Justo y Pastor. Centro de Interpretación y Museo
32. Casa de la Entrevista
33. Casa de los Lizana
34. Colegio Convento de Mínimos. Facultad de Económicas y Empresariales
35. Convento de Santa Catalina de Siena
36. Convento de Nuestra Señora de la Esperanza
37. Colegio-Convento de los Caracciolo. Facultad de Filosofía y Letras
38. Antiguo Colegio-Convento de Trinitarios Descalzos
39. Museo de Esculturas al Aire Libre
40. Ciudad Romana de Complutum
41. Oficina de Turismo-Plaza de los Santos Niños
42. Ermita de Santa Lucía
43. Palacio Laredo. Museo Cisneriano
44. Ermita de San Isidro
45. Antiguo Hospital de Santa María la Rica
46. Corral de la Sinagoga
47. Colegio-Convento de Mercedarios Descalzos
48. Estación de Autobuses
49. Estación de Ferrocarril. RENFE
50. Antiguo Monasterio de San Diego
51. Convento de Clarisas de San Diego. Almendreras
52. Colegio de Adoratrices
53. Colegio de Dominicos de Santo Tomás de Aquino. Parador de Turismo
54. Colegio de Trinitarios Calzados. Archivo del Movimiento Obrero
55. Casa de Hippolytus
56. Colegio Menor de Carmelitas Calzados. Escuela Superior de Arquitectura

Wednesday, October 20th , 2010- Faculty of Law (Facultad de derecho)

17:00-18:00 *Arrival and Check-in*

18:00-20:00 *Informal Welcome (Cafeteria)*

17:00-19:00 *METASCHOOL Workshop*

Thursday, October 21st , 2010- Faculty of Law (Facultad de derecho), Room: “Sala de grados”				
9:00-9:30	<i>Welcome, arrival, registration</i>			
9:30-10:00	<i>Opening ceremony and honorary speeches</i>			
10:00-11:00	<i>INVITED TALK - Christian M. Stracke , “The Benefits and future of standards: Metadata and beyond”</i>			
11:00-11:30	<i>Coffee break</i>			
11:30-12:00	<i>INVITED TALK, Ferdinando Villa, “Bridging scales and paradigms in natural systems modeling”</i>			
	<i>Session1:Agricultural and environmental metadata (Room: “Sala de Videoconferencias”)</i>		<i>Session2: Semantic metadata and its applications (Room: “Sala de Juntas”)</i>	
12:00-13:00	<i>Meta data and semantics the industry interface: what does the food industry think are necessary elements for exchange?</i>	Kathryn A-M Donnelly	<i>Using a semantic wiki for very small projects documentation management</i>	Vincent Ribaud and Philippe Saliou
	<i>Quality considerations for learning repositories</i>	Nikos Palavitsinis	<i>Model-driven knowledge-based development of expected answer type taxonomies for restricted domain question answering</i>	Katia Vila, Jose-Norberto Mazon, Antonio Ferrández and Jose M. Gomez
	<i>Use cases of ecological integrative information systems: The Luquillo and Sevilleta Information Management</i>	Inigo San Gil, Marshall White, Eda Melendez and Kristin Vanderbilt	<i>Social Ontology Documentation for Knowledge Externalization</i>	Gonzalo A. Aranda-Corral, Joaquín Borrego-Díaz and Antonio Jiménez-Mavillard
13:00-14:00	<i>Lunch break</i>			

14:00-14:50	<i>KEYNOTE</i> , Dave Roberts, David King, Simon Rycroft, David Morse, Lyubomir Penev, Donat Agosti & Vince Smith " <i>Community web sites: small pieces loosely joined</i> "			
	Session1-part 2:Agricultural and environmental metadata (Room: "Sala de Videoconferencias")		Session3: Semantic metadata and Linked Data (Room: "Sala de Juntas")	
14:50-15:40	<i>Information enrichment using TaToo's semantic framework</i>	Gerald Schimak, Andrea E. Rizzoli, Giuseppe Avellino and Tomas Pariente Lobo	<i>Utilizing Linked Open Data Sources for Automatic Generation of Semantic Metadata</i>	Antti Nummiahho, Sari Vainikainen and Magnus Melin
	<i>Enriching the description of learning resources on disaster risk reduction in the agricultural domain: An ontological approach</i>	Thomas Zschocke, Juan Carlos Villagrán de León and Jan Beniést	<i>Sharing epigraphic information as linked data EPIDOC</i>	Fernando Luis Álvarez García, Elena García-Barriocanal and Joaquín Gómez-Pantoja
	Session4: Metadata applications in practice (Room: "Sala de Videoconferencias")		<i>Development Issues on Linked Data Weblog Enrichment</i>	Iván Ruiz-Rube, Carlos M. Cornejo, Juan Manuel Doderó and Vicente M. García
	<i>On modeling research work for describing and filtering scientific information</i>	Miguel Angel Sicilia		
15:40-16:00	<i>Cofee break</i>			
	Session4-continue: Metadata applications in practice (Room: "Sala de Videoconferencias")		Session3-part2: Semantic metadata and Linked Data (Room: "Sala de Juntas")	
16:00-17:00	<i>Quality Requirements of Migration Metadata in Long-term Digital Preservation Systems</i>	Feng Luan, Thomas Mestl and Mads Nygård	<i>A Model for Integration and Interlinking of Idea Management Systems</i>	Adam Westerski, Carlos A. Iglesias and Fernando Tapia Rico
	<i>Quality in Learning Objects: Evaluating compliance with metadata standards</i>	Christian Vidal C., Ale - Alonso	<i>Ontology-driven Research Information Systems: An Implementation in Language Technology</i>	Briggitte Joerg
18:00	<i>Guided visit to Alcalá Heritage</i>			
20:30	<i>Social dinner</i>			

Friday, October 22nd, 2010- Faculty of Law (Facultad de derecho), Room: “Sala de grados”

9:00-9:45	<i>INVITED TALK</i> , Julià Minguillón, “Analyzing hidden semantics in social bookmarking of open educational resources”			
9:45-10:00	<i>MTSR 2011</i> , Nikos Manouselis			
	Session 5: Metadata applications in practice (Room: “Sala de Videoconferencias”)		Session6: Foundations and standards (Room: “Room 20 / Aula 20”)	
10:00-11:00	<i>An Enterprise Ontology Building the Bases for Automatic Metadata Generation</i>	Barbara Thoenssen	<i>Assessing Quality of Data Standards: Framework and Illustration using XBRL GAAP Taxonomy</i>	Hongwei Zhu and Harris Wu
	<i>Matching SKOS thesauri for Spatial Data Infrastructures</i>	Cristiano Fugazza, Soeren Dupke and Lorenzino Vaccari	<i>The design of an automated workflow for metadata generation</i>	Miguel Manso-Callejo, Mónica Wachowicz and Miguel Bernabé Poved
	<i>Metaschool project</i>	Argiris Tzikopoulos	<i>Localisation Standards and Metadata</i>	Dimitra Anastasiou and Lucia Morado Vázquez
11:00-11:30	<i>Coffee break</i>			
11:00-11:30	<i>INVITED TALK</i> , Jesús Contreras, “Challenges and opportunities of Linked Data”			

	<i>Session7: Use and applications of metadata in learning environments (Room: “Sala de Videoconferencias”)</i>		<i>Session8: Semantic metadata and its applications (Room: “Room 20 / Aula 20”)</i>	
11:30-13:00	<i>Utilizing Embebed Semantics for User-driven Design of Pervasive Environments</i>	Ahmet Soylu, Felix Mödritscher and Patrick De Causmaecker	<i>Application of semantic tagging to generate superimposed information on a digital encyclopedia</i>	Piedad Garrido Picazo, Jesus Tramullas and Francisco José Martínez Domínguez
	<i>Brazilian Proposal for Agent-Based Learning Objects Metadata Standard - OBAA</i>	Rosa Maria Vicari, Alexandre Ribeiro, Júlia Marques Carvalho da Silva, Elder Santos, Tiago Primo and Marta Bez	<i>Mapping of Core Components based e-Business Standards into Ontology</i>	Ivan Magdalenic , Boris Vrdoljak and Markus Schatten
	<i>Descriptive Analysis of Learning Object Material Types in MERLOT</i>	Cristian Cechinel, Salvador Sánchez-Alonso, Miguel-Ángel Sicilia and Merisandra Côrtes de Mattos.	<i>Exploiting CReP for Knowledge Retrieval and Use in Complex Domains</i>	Lorenza Manenti and Fabio Sartori
13:00-14:00	<i>Lunch break & closure</i>			
14:00-14:45	<i>KEYNOTE, Brigitte Joerg, “CERIF - The Common European Research Information Format”</i>			
15:00-17:00	<i>Working group sessions (by invitation only)</i>			

Keynotes and invited speakers



Christian M. Stracke is an expert and senior consultant with international reputation and numerous references within his main working fields policies and quality for learning, quality management, E-Learning, competence modeling and standardization in HR. As consultant and project manager he gained extensive experience in consulting and supporting enterprises and public organization to develop long-term policies and to implement and improve E-Learning. He is Chair of the European standardization committee CEN/TC 353 and ISO-Convener of the international standardization committee ISO/IEC JTC1SC36 WG5 that has developed and published the first official ISO/IEC standard for quality management in Learning, Education, and Training (RFDQ = ISO/IEC 19796-1). In addition he is engaged in the leading standardization organizations (ISO/IEC, IEEE, LETSI, CEN, DIN) and Co-author of several specifications for E-Learning and competencies in HR.

Christian M. Stracke is working for the University of Duisburg-Essen (see: www.wip.uni-due.de) and in addition Adjunct Professor for E-Learning at the Korean National Open University (see: www.knou.ac.kr/engknou2/). He studied Educational Sciences (M.A.) at the University of Bonn and is currently writing his PhD thesis about the implementation and the benefits of continuous quality and competence development and standardization for E-Learning. He manages international, European, and national consortia and research projects, amongst others the largest project for Quality and Standards in E-Learning (see: www.qed-info.de) and QLET (see: www.qualitydevelopment.eu/)

He has founded and established eLC, the European Institute for Learning, Innovation and Cooperation (see: www.elc-institute.com). He is co-initiator and Member of the Executive Committee of the German E-Learning Association D-ELAN (see: www.d-elan.net) and elected speaker of the SIG "International E-Learning". His main research interests and activities are quality and standards in E-Learning, quality and competence development in education and HR, convergence of knowledge management and E-Learning, international and intercultural E-Learning, Mobile Learning, change management and controlling in learning processes. As an internationally recognized innovator, consultant, and researcher he has published numerous articles and book chapters and has been invited speaker at multitudinous international, European, and national conferences.



Dr. Jesus Contreras, R&D Director at Intelligent Software Components (iSOCO). PhD Computer Science (2004) at the Technical University of Madrid, Spain. In 1996 he was an assistant researcher in the Intelligence Systems Research Group (www.isys.dia.fi.upm.es) where he participate in projects oriented towards the development of Knowledge Based Systems and Advanced Artificial Intelligence Applications. In 1998 he joined Software A.G. e-business competence center (www.softwareag.com) where he was enrolled in various European projects as software engineer and main researcher. In November 2000 he joined iSOCO in the Innovation department and participated in knowledge management tasks. Now he is R&D Director of iSOCO, involved in tasks of innovation business development for Semantic Web research results. During his career he published various articles about semantic web, natural language processing and human-computer interaction



Julià Minguillón (Barcelona, Spain, 1968) received his Ph.D. degree from the Universidad Autònoma de Barcelona (UAB) in September 2002. In January 2001 he joined the Universitat Oberta de Catalunya (UOC) where he is a faculty member of the Computer Science, Multimedia and Telecommunication Studies department. Currently now he is the Academic Director of the UOC UNESCO Chair in e-Learning. He has developed learning resources for object oriented programming, abstract data types engineering and compiler construction. He is also involved in the integration of e-learning standards in virtual learning environments, such as IEEE LOM, SCORM and IMS LD. His main research interests include the formal description of the learning process by means of ontologies, personalizing the learning process by means of adaptive itineraries based on reusable learning objects, and user modeling in virtual e-learning environments applying web mining techniques for improving user experience and usability, accessibility and mobility issues. He is also interested in open educational resources and the uses of social tools for teaching and learning. He was in charge of the UOC participation in the OLCOS (Open Learning Content Observatory Services) EU funded project. He led the Spanish Government funded PERSONAL(ONTO) project, the framework that articulates all the aforementioned research lines and the E-MATH++ project, which promotes the use of learning object repositories in virtual learning environments. He also leads the METAOER project which aims to create an organized collection of open resources about open educational resources and practices.



Ferdinando Villa has a Ph.D. in theoretical Ecology and a background in Computer Science. After working in many fields of Ecology, from theoretical island biogeography to marine protected area planning, he has concentrated on ecoinformatics, with a special attention to the application of artificial intelligence techniques to spatially-explicit assessment, valuation, and modelling of ecosystem services. He has also been involved in modelling the decision process and worked with NGOs and governments to produce decision support systems to help sound and sustainable environmental decision-making. He is the leader of the ARIES project, one of the most innovative toolkits to assess the physical flows of ecosystem services and estimate their economic values. He has authored 100+ publications and open source software packages, and is the recipient of several million USD in federal research grants. Ferdinando has just returned to Europe after a 15-year career in the United States



Brigitte Joerg studied Information Science, Information Systems and Business Administration at Saarland University. She started her work in the Language Technology Lab at DFKI in 2001. Since her (M.A.) graduation in Information Science, Information Systems and Business Administration, in 2004, Brigitte has been working as a Researcher in the Language Technology Lab at DFKI, the German Research Center for Artificial Intelligence. In parallel she is pursuing her PhD which is near to being finished. From early 2005 on, Brigitte has been involved in project work and project management at European level. In January 2010, Brigitte moved to the DFKI office in Berlin, where she is responsible for the Management of the Virtual Information Center within the META-NET project. Brigitte is elected CERIF TG leader at euroCRIS, a non-for-profit organisation dedicated to Research Information Systems and maintaining CERIF - The Common European Research Information Format.

CERIF is a formal model to manage Research Information and to enable interoperation between Research Information Systems. Research Information is information about research entities such as people, projects, organisations, publications, etc. and the relationships between them. The CERIF format will be presented, to allow for an insight into the model structure and its method for managing contextual semantics with relationships.



A long, long time ago, when glaciers covered more of the Earth than they do now, Dave Roberts left the University of London with a BSc in Microbiology and entered the Natural History Museum in London where he can be found to this very day. The original objective was to study prey-predator interactions in ciliates but the Museum, being a taxonomic institution, re-focussed this into addressing the question of how to tell prey from predator. This, in turn, led to a PhD thesis on the volume distribution of growing cells and what can be inferred from it. The appearance of molecular biology stimulated a move to adopt new methods to discriminate organisms, again involving computing and mathematical modelling through a particularly productive collaboration with Martin Embley and a period of activity dredging nucleic acids from natural waters in an effort to find out what was present. At the same time it became clear that the third leg of taxonomy, nomenclature, was less than straightforward. A long-term collaboration with James Ytow (University of Tsukuba) and David Morse (Open University) led to the development of the Nomenclator model of nomenclature that revealed the complicated and highly recursive nature of the data model necessary to represent nomenclature. Two major conclusions emerged: first that there was a formal relationship between classification and character vectors that could be used to infer values of implicit characters and used to access the taxonomic concept being handled in the face of missing information; second the process of extracting data from text was made more difficult by the fine-grained nature of the elements required, basically that Wittgenstein was right and that context is key to understanding. The EU project EDIT presented the opportunity to give people the chance to organise and publish their data manifest as the Scratchpad project. Pragmatically, it is more important to have the data available and struggle with its integration than to have a beautifully integrated, but empty, model.