



European Workshop on the Integration of Knowledge, Semantic and Digital Media Technologies

EWIMT 2004

London, 25-26 November 2004

Program



Organizing Committee

P. Hobson, E. Izquierdo, Y. Kompatsiaris, N. O'Connor



CENTRE for
DIGITAL VIDEO PROCESSING
DUBLIN CITY UNIVERSITY



FP6UK

Supporting UK applicants to the
EU's 6th Framework Programme

Workshop at a Glance

Thursday	Friday
8:45 - 9:20 -Registration- Royal Statistical Society, London, 12 Errol Street	09:00 - 09:05 -Welcome and introduction to the EU IST symposium- Ebroul Izquierdo , Queen Mary, University of London
9:20 – 9:30 –Welcome and Opening Remarks- Paola Hobson , Motorola Labs, UK	09:05-09:35 -Keynote Address- Roberto Cencioni Head of Unit INFSO. E2, European Commission <i>Integrating knowledge, content and semantics. Research directions and priorities. Launch of the revised WorkProgram for the remaining calls in FP6.</i>
9:30 - 10:30 -Oral Session 1- Knowledge and Semantics in Distributed Media Applications	09:35 – 10:00 -IST Session- Brian Macklin and Albert Gaulthier European Commission, INFSO. E2 <i>From project ideas to successful proposals: hints and tips for prospective proposers</i>
	10:00 - 10:15 -UK National Contact Point- Peter Walters , FP6UK IS Support <i>Support for IST Proposers</i>
	10:15 - 10:30 -Q&A session-
10:30 - 10:45 Coffee Break	10:30 – 10:45: Coffee Break
10:45 – 11:30 -Keynote Address- Tsuhan Chen <i>Low-Level Features to High-Level Semantics: Are We Bridging the Gap?</i>	10:45 - 13:00 -Poster and Demonstration Session1- Knowledge, Semantics and Content in IST Projects
11:30 - 13:00 -Poster Session 1- Low-Level Analysis for Annotation and Retrieval	
13:00 -14:00 -Lunch Break-	13:00 -14:00 -Lunch Break-
14:00 -15:40 -Oral Session 2- Knowledge-Driven Classification of Visual Information	14:00-15:00 -Poster and Demonstration Session 2- Knowledge, Semantics and Content in IST Projects 15:00-16:00 -Panel 1: Knowledge/ Semantic Web- Chair: John Davies Panelists: Guus Schreiber, Thierry Declerck, Ian Horrocks, Stefan Rueger
15:40 - 15:55 -Coffee Break-	16:00-16:15 -Coffee Break-
15:55 - 18:00 -Poster Session 2- Integration of Knowledge and Semantics for Multimedia Applications	16:15 - 17:15 -Panel 2: Digital Content Processing- Chair : Thomas Sikora Panelists : Ferran Marques, Daniel Teruggi, Mark Sandler, Werner Haas 17:15 - 18:00 -Q&A session- Involving all panelists and commission delegates
18:00 End of technical symposium	18:00 End of EU IST symposium

Programme

Thursday, November 25	Technical Symposium
8:45 - 9:20	Registration
9:20 – 9:30	Welcome and Opening Remarks Paola Hobson , Motorola Labs, UK
9:30 - 10:30 Oral Session 1- Knowledge and Semantics in Distributed Media Applications	<p>A Framework for Semantic Web-Enabled Multimedia L. J. B.Nixon</p> <p>A Distributed Surveillance System to Improve Personal Security in Public Transport J. Sun, S. A. Velastin, B. Lo, M. A. Vicencio-Silva and L. Khoudour</p> <p>Knowledge Discovery from Digital Media Objects Using Preference Semantics L. Budzyńska, J. Jelonek, E. Łukasik, A. Naganowski, R. Ślowiński and R. Susmaga</p>
10:30 - 10:45	Coffee Break
10:45 – 11:30 Keynote Address-	<p>Tsuhan Chen Dept. Of Electrical and Computer Engineering, Carnegie Mellon University <i>Low-Level Features to High-Level Semantics: Are We Bridging the Gap?</i></p>
11:30 - 13:00: Poster Session 1- Low-Level Analysis for Annotation and Retrieval	<p>An Attention-Based Model Applied to Colour Histogram Indexing A. Bamidele</p> <p>Action Sequence Detection in Motion Pictures B. Lehane, N. E. O'Connor and N. Murphy</p> <p>DCT-Based Downscaling Effects on Color and Texture-Based Image Retrieval E. Guldogan, M. Gabbouj and O. Guldogan</p> <p>Dissolve Shot Boundary Determination C. Petersohn</p> <p>Tuning SVM-Based Relevance Feedback for the Interactive Classification of Images M. Ferecatu, M. Crucianu and N. Boujemaa</p> <p>Using HMMs to Classify Video Sequences D. M. Papworth, E. Izquierdo and A. Pearmain</p> <p>Tracking Animals in Wildlife Videos Using Face Detection T. Burghardt, J. Ćalić, B. T. Thomas</p> <p>E-Movie Creation by Rule-Based Reasoning from the Director's Viewpoint – E-Movie: Computer Animation & Real Images J. Shen, T. Aoki, H. Yasuda and S. Miyazaki</p> <p>Methods of Phoneme Distinction in a Continuous Speech Recognition System A.V. Kazantsev</p> <p>Integration of Unstructured Data for Getting Refined Information V. Kiauleikis, A. Janaviciute and M. Kiauleikis</p> <p>Body-Speech Coordination in Multi-Modal Synchrony S. P. Gill and M. Kawamori</p>
13:00 -14:00	Lunch Break

14:00 -15:40 Oral Session 2- Knowledge-Driven Classification of Visual Information	<p>Generic Object Registration Using Multiple Hypotheses Testing in Partition Trees E. L. Andrade, J. C Woods, H. H. Lu, I. Henning and M. Ghanbari</p> <p>Fuzzy Clustering with Pairwise Constraints for Knowledge-Driven Image Categorization N. Grira, M. Crucianu and N. Boujemaa</p> <p>Unsupervised Region-Based Image Retrieval I. Pratikakis, Z. Efremidis, B. Gatos, S. J. Perantonis, I. Vanhamel and H. Sahli</p> <p>Image Annotation Aided by a Semantic Belief Network K. Ren, J. Bigham and E. Izquierdo</p> <p>A Generic Audio Classification and Segmentation Approach for Multimedia Indexing and Retrieval S. Kiranyaz, A. F. Qureshi and M. Gabbouj</p>
15:40 - 15:55	Coffee Break
15:55 - 18:00 Poster Session 2- Integration of Knowledge and Semantics for Multimedia Applications	<p>Internet Intelligent Search System, Smartfinder S. I. Chuprina, V. V. Lanin, D. A. Borisova and S. I. Khaeva</p> <p>Reasoning on the Web: Language Prototypes and Perspectives S. Berger, F. Bry, B. Lorenz, H. J. Ohlbach, P.-L. Patranjan, S. Schaffert, U. Schwertel and S. Spranger</p> <p>Constructive Electronic Publishing Based on Notion System and Interactive Dynamic Images M. S. Ilinykh and S.G. Maslov</p> <p>On the Evolution of IMEDIA Implementations T. Cleenewerck, D. Deridder, J. Brichau and T. D'Hondt</p> <p>Supervised Semantic Scene Classification Based on Low-Level Clustering and Relevance Feedback A. Dorado, D. Djordjevic, E. Izquierdo and W. Pedrycz</p> <p>Digital Library Grid Scenarios M. Kosiedowski, C. Mazurek and M. Werla</p> <p>Using Quality of Experience and Objective Network Metrics Feedback to Control Quality of Service in Conventional and Active Packet Networks M. Siller and J. Woods</p> <p>Knowledge Reproduction through Telephone Networks V. V. Okatiev, K. A. Barkalov and M. V. Bakulin</p> <p>Advances in Practical Implementation of the Digital Media Processing: Towards Reconfigurable Computation E. Dokladalova, S. Chevobbe and F. Blanc</p> <p>Relating Visual and Semantic Image Descriptors J. Stauder, J. Sirot, H. Le Borgne, E. Cooke and N.E. O'Connor</p> <p>Handling Multilingual Content in Digital Media: The Multilingual Information Framework S. Cruz-Lara, S. Gupta and L. Romary</p> <p>JPEG2000 Based Scalable Summary for Remote Video Content Browsing and Efficient Semantic Structure Understanding J. Meessen L. -Q. Xu and B. Macq</p> <p>Knowledge Representation for Semantic Multimedia Content Analysis and Reasoning K. Petridis, I. Kompatsiaris, M. G. Strintzis, S. Bloehdorn, S. Handschuh, S. Staab, N. Simou, V. Tzouvaras and Y. Avrithis</p> <p>Adding Privacy Constraints to Video-Based Applications A. Cavallaro</p>

	Loss Resilient, Scalable Audio Compression and Streaming M. Sandler and D. Black
	Domain Ontology Building for Semantic Web Applications to Cultural Heritage Repositories S. H. Minelli and A. De Polo
	Genome – A Personalised Programme Guide T. C. Ferne
	Knowledge-Based and Semantic Adaptation of Multimedia Content M. K. Asadi and J-C. Dufourd
	Integrating Metadata-Driven Content Adaptation Approaches J. M. Martínez, J. Bescós, V. Váldez and L. Herranz
	Integrating Perceptech Requirements in Multimedia Streaming G. Ghinea and G. D. Magoulas
18:00	End of technical symposium

Friday, November 26	IST Symposium
09:00 - 09:05	Welcome and introduction to the EU IST symposium- Ebroul Izquierdo , Queen Mary, University of London
09:05-09:35 Keynote Address	Roberto Cencioni Head of Unit INFSO. E2, European Commission <i>Integrating knowledge, content and semantics. Research directions and priorities.</i> <i>Launch of the revised WorkProgram for the remaining calls in FP6.</i>
09:35 – 10:00 IST Session	Brian Macklin and Albert Gauthier European Commission, INFSO. E2 <i>From project ideas to successful proposals: hints and tips for prospective proposers</i>
10:00 - 10:15 UK National Contact Point	Peter Walters , FP6UK Support for IST Proposers
10:15 - 10:30	Q&A session
10:30 – 10:45	Coffee Break
10:45 - 13:00 Poster and Demonstration Session 1 Knowledge, Semantics and Content in IST Projects	Achieving Integration of Knowledge and Content Technologies: The aceMedia Project Y. Kompatsiaris, Y. Avrithis, P. Hobson, T. May and J. Tromp Polymnia: Personalised Leisure and Entertainment over Cross Media Intelligent Platforms A. Doulamis, D. Kosmopoulos, C. Christogiannis and D. Varvarigou An Overview of the PENG (Personalized News Content Programming) Project G. Pasi Semantic Knowledge Technology – The Next Stage in Knowledge Productivity P. Warren Knowledge Web: Realising The Semantic Web, all The Way to Knowledge Enhanced Multimedia Documents J. Euzenat, D. Fensel, R. Lara and A. Gómez-Pérez Information Management and Knowledge Sharing in Wide T. Smithers, J. Posada, A. Stork, M. Pianciamore, N. Ferreira, S. Grimm, I. Jimenez, S. Di Marca, G. Marcos, M. Mauri, P. Selvini, N. Sevilmis, B. Thelen and V. Zechino IST WCAM Project: Smart and Secure Video Coding Based on Content Detection J. Meessen, C. Parisot and J-F. Delaigle, C. Lebarz and D. Nicholson DIRECT-INFO: A Distributed Multimodal Analysis System for Media Monitoring Applications H. Rehatschek, N. Diakopoulos, G. Kienast, V. Hahn and T. Declerk An Overview of a New European Consortium: Integrated Three-Dimensional Television – Capture, Transmission and Display (3DTV) L. Onural, T. Sikora and A. Smolic Text-Based Semantic Annotation Service for Multimedia Content in the Esperonto Project T. Declerck, C. Crispi, J. Contreras and O. Corcho Broadcasting Synchronised and Scalable Content over Different Transmission Networks to a Variety of Terminal Devices: The Savant Project A. Pearmain, G. Stoll, G. Durand and T. Itagaki NM2: New Media for a New Millennium D. L. Williams and I. C. Kegel

	Towards the Semantics of Digital Shapes: The AIM@SHAPE Approach B. Falcidieno, M. Spagnuolo, P. Alliez, E. Quak, E. Vavalis and C. Houstis
	Knowledge-Based Exploration of Multimedia Museum Collections S. Goodall, P. H. Lewis, K. Martinez, P. A. S. Sinclair, F. Giorgini, M. J. Addis, C. Lahanié and J. Stevenson
13:00 -14:00	Lunch Break
14:00-15:00 Poster and Demonstration Session 2- Knowledge, Semantics and Content in IST Projects	AmigoTV: A Medianet Application M. Pelt, L. Trappeniers, F. Vanparijs and J. Moons The DIP Project: Enabling Systems & Solutions for Processing Digital Content with Semantic Web Services L. Vasiliu, S. Harand and E. Cimpian CANDELA – Integrated Storage, Analysis and Distribution of Video Content for Intelligent Information Systems P. Merkus, X. Desurmont, E.G.T Jaspers, R.G.J. Wijnhoven, O. Caignart, J-F Delaigle and W. Favoreel Knowledge Content Objects and a Knowledge Content Carrier W. Maass, S. Goyal and W. Behrendt A Short Introduction to FP6 Network of Excellence Muscle: Multimedia Understanding through Semantics, Computation and Learning E. J. Pauwels ALVIS: Superpeer Semantic Search Engine W. L. Buntine and M. P. Taylor
15:00 - 16:00 Panel 1	Knowledge/ Semantic Web Chair : John Davies Panelists : Guus Schreiber, Thierry Declerck, Ian Horrocks, Stefan Rueger
16:00-16:15	Coffee Break
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18:00	End of EU IST symposium