

Conference & Exhibition

eChallenges e-2006

Advance Programme

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Barcelona *Spain*

25 - 27 October 2006



Major Sponsors



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Introduction

The **eChallenges e-2006** Conference Conference takes place 25 – 27 October in Barcelona, Spain. This is the sixteenth in a series of annual conferences supported by the European Commission, which bring together over 600 delegates from leading commercial, government and research organisations around the world to bridge the Digital Divide by sharing knowledge, experience, lessons learnt and good practice.

Thematic areas addressed in the conference programme include Networked Business, eGovernment and eDemocracy, Technology Enhanced Learning, Collaborative Working Environments, eHealth, GRID, Knowledge Management, Smart and Virtual Organisations & International IST Collaboration.

The reputation of the **eChallenges** Conference Series is based on its international perspective and its focus on high quality papers, discussion and networking. Opening and closing plenary sessions feature keynote government, business and research speakers sharing experience, insight and challenges for the future. Thematically focused parallel sessions provide coherence to a programme featuring an invigorating mix of business and government case studies, technical, legal and policy papers and interactive workshops.

eChallenges e-2006 features a series of special tutorials on Wednesday 25 October presented by European Commission officials on participation in Framework Programme 7 (FP7), focusing on Networked Business, Collaborative Working Environments, Technology Enhanced Learning and GRID. European research activities are structured around consecutive multi-annual Framework Programmes. FP7 is under preparation, setting out the priorities – including the Information Society Technologies (IST) Programme – for the period 2007 – 2013. IST is open to international co-operation with the aim to join forces for addressing major challenges, where significant added value is expected to be gained from world-wide R&D cooperation.

The goals of **eChallenges e-2006** are Community Building to facilitate international research cooperation and successful exploitation of research results, to promote knowledge sharing between commercial, government and research organisations, to exchange experiences about the current state of global eAdoption at a sectoral, national or regional level, support International Cooperation and open up the European Research Area (ERA) to the rest of the world.

Who will you meet at e-2006?

"eChallenges e-2005 was a success largely due to the ability of the eChallenges Consortium to attract major global players in ICT related applied R&D and formulate a program rich in content, touching the cutting edge of R&D issues and focusing on the most important future trends, while insisting on high level academic performance as manifested in the excellent conference proceedings and documentation. For my colleagues in the Government of Slovenia, for the Slovenian research community and related businesses, the event was very valuable."
Dr. Jure Zupan, Minister for Higher Education, Science and Technology, Slovenia

The **eChallenges** Conference Series attracts policy makers, practitioners and researchers from leading commercial, government and research organisations around the world. Participants include ministers, Director- Generals, senior and middle managers, professors and graduate students, project managers, software engineers and researchers.

eChallenges e-2006 provides a prestigious international forum to increase awareness of exploitable research results and applications, whether funded privately or at regional, national or European level. The Conference Exhibition provides

an opportunity to showcase research results and applications through technology demonstrations and posters. The eChallenges Community is open, inclusive and welcoming, providing an excellent networking environment to discuss problems and new ideas, share knowledge and experience and obtain feedback from potential users.

The **eChallenges** Conference Series also provides a unique opportunity to identify partners and opportunities to co-operate in international research projects co-funded by the European Commission under the IST Programme of FP7, as well as discussing proposal ideas with European Commission officials representing different units from DG INFSO.

The Venue

The **eChallenges e-2006** Conference & Exhibition takes place in the Hotel Princesa Sofia, Plaza Pio XII, Barcelona, which is located in the exclusive Avenida Diagonal. It combines elegant, classic surroundings with high tech and modern facilities.

Media Partners



The Programme

The 3-day programme features an invigorating mix of business and government case studies, technical and policy papers and interactive workshops. As well as opening and closing plenary sessions, delegates may participate in almost 80 thematically focused parallel sessions featuring different aspects of Networked Business, eGovernment and eDemocracy, Technology Enhanced Learning, Collaborative Working Environments, eHealth, GRID, Knowledge Management, Smart and Virtual Organisations and International Collaboration on IST. Session Chairs will ensure active discussions and facilitate delegate participation and networking.

The conference programme is complemented by a demonstration and exploitation focused Exhibition, social events including a **Networking Cocktail Reception** kindly sponsored by IBM (25th October) and a **Gala Dinner** kindly sponsored by the Generalitat de Catalunya and the Ajuntament de Barcelona (26th October), a comprehensive Partner Social Programme as well as post-conference tours.

The programme is subject to change, and the **eChallenges e-2006** Organising Committee reserves the right to alter the contents, venue and/or speakers.

Networking Support

Networking is a key feature of the **eChallenges** Conference Series, and is facilitated in a number of practical ways. Paper and workshop sessions are designed to maximise knowledge sharing by providing time for interactive discussions during the conference programme itself. Coffee and lunch breaks take place in the Exhibition area to maximise exposure for technology demonstrations and posters and to facilitate discussions following paper or workshop sessions. Social events are designed to facilitate informal discussion, and the Cyber Café makes it easy to follow up immediately.

A number of dedicated networking areas are provided at the venue to facilitate spontaneous meetings by small groups. Finally, the Delegate Showcase on the **eChallenges** portal (www.eChallenges.org) allows registered delegates, speakers & exhibitors to publish their own short profile (including research and commercial interests and a photograph), to facilitate networking before, during and after the conference.

Cyber Café

e-2006 delegates may avail of the printing and Internet facilities provided by the **eChallenges** Cyber Café. Make last minute changes to your conference presentation, follow up immediately on

business, research and cooperation opportunities identified through networking at the conference, and keep in touch with the office, family and friends.

Security, Health and Safety

Please wear your name badge for all **e-2006** activities, as it is your identification and allows you access to the facilities on offer. Unfortunately, conferences provide a tempting target for thieves, so please take care of bags, personal computers and other personal belongings.

The organisers cannot accept any responsibility for losses incurred or for personal health and safety. Delegates should ensure they have personal health insurance and take the usual care when exploring the city of Barcelona. Any special needs or requirements, should be dealt with by contacting the conference secretariat prior to the event.

Hotel Accommodation

The Conference Organisers have negotiated special B&B rates at the Conference Hotel (**Princesa Sofia Gran Hotel**) as well as the **Torre Catalunya Gran Hotel** and **Hotel Expo Barcelona** (which are beside one another, ten minutes by Metro from the Princesa Sofia). By staying in one of these hotels, you will maximise networking opportunities with other conference delegates, presenters and exhibitors.

eChallenges e-2006 delegates are strongly recommended to book their accommodation online early, as Barcelona is very busy the week that the Conference takes place. While the Conference Organisers will try to accommodate delegates' first choice, rooms will be allocated on a first-come, first-served basis. More information is available on the **eChallenges** portal (www.eChallenges.org).

Networking Reception

The Organising Committee are pleased to announce that a **Networking Cocktail Reception** sponsored by IBM will be held in the Exhibition area on Wednesday 25 October from 6pm, following the FP7 tutorials.

Gala Dinner

The Organising Committee are pleased to announce that a **Gala Dinner**, sponsored by the Generalitat de Catalunya and Ajuntament de Barcelona will be held on Thursday 26 October.

It is necessary for all delegates and Accompanying persons to confirm participation at both social events as part of online registration. Tickets for the Gala Dinner will be restricted and assigned on a first-come, first-served basis.

How to get there

The airport is located 12 kilometres outside the city, to the south. It has direct scheduled flights from most European and international cities, with additional indirect flights via Madrid. Transport from the airport to the city centre can be made by Train (Fare: €1.50, Daily 6.13am - 11.40pm), Aerobús (Fare: €3.75 one-way / €6.45 return - valid for one week, Monday-Friday 6am. to Midnight / Saturday, Sunday and public holidays 6.30am - Midnight) or taxi.

Train (www.renfe.es)

Trains leave from the Airport to the station for the Princesa Sofia, Torre Catalunya and Expo Hotels every 30 minutes. The train takes 17 minutes to arrive at **Barcelona Sants Station**. For Torre Catalunya & Expo, exit station and walk 2 minutes to hotel. For the Princesa Sofia, change to L3 Metro (Direction Zona Universitària) and get off at Maria Christina station. Exit station and walk 5 minutes to Conference Hotel.

Aerobús (www.emt-amb.com)

Aerobús from Airport to Princesa Sofia, Torre Catalunya and Expo leaves every 12 minutes, Aerobús takes c.40 minutes to get to **Barcelona Sants Station**. For Torre Catalunya and Expo, exit Aerobús and walk 2 minutes to hotel. For the Princesa Sofia, change to L3 Metro (Direction Zona Universitària) and get off at Maria Christina station. Exit station and walk 5 minutes to Conference Hotel.

Delegates may also avail of the **Barcelona City Card** which features free travel on public transport and over 100 discounts and free offers at museums, cultural venues, entertainment, leisure attractions, evening venues, shops and restaurants. Every card, which is valid for 1 - 5 days, comes with a FREE guidebook and a city map.

A **taxi** will cost approximately €20 from the airport to either the Princesa Sofia, Torre Catalunya or Expo.

Major Places of Interest

Barcelona, the regional capital of Catalunya, and Olympic City in 1992, offers a unique mixture of architecture and cultural heritage. Barcelona is very accessible with a comprehensive public transport system that will make it easy for you to see everything this beautiful and historic city has to offer.

With Gaudi landmarks throughout the city (Guell Park, Batllo House, Sagrada Familia Cathedral), Barcelona also has areas like La Rambla (linking Plaça Catalunya to Estatua de Colón - Columbus Statue - a boulevard full of kiosks, restaurants, flower shops, stores and art), and the Gothic Neighbourhood with its wide range of main public buildings (Palacio de la Generalitat, the Auntamineto, Palacio Real).

Sponsorship Opportunities

e-2006 offers a variety of Sponsorship Opportunities to enhance your organisation's image with the international IST research community. Prominent notice will be given to sponsors on the conference portal, in the Exhibition area and press releases together with other benefits and promotional opportunities.

Major sponsors for **e-2006** include Generalitat de Catalunya, Ajuntament de Barcelona, Hewlett-Packard Europe and IBM. **eChallenges e-2006** is also supported by the European Commission.

Technical co-sponsors include IEEE Region 8 (Europe, Middle East, Africa), IEEE Spain Section, IEEE Spain Computer Chapter, IEEE Spain Signal Processing & Communications Joint Chapter, IEEE UKRI Computer Chapter, IEEE Control & Communication (Ireland) Joint Chapter and Colegio Oficial de Ingerieros de Telecommunication.

Previous sponsors include the European Commission, Municipality of Bologna, City of Vienna, Austrian Ministries of Transport, Innovation & Technology and Economic Affairs & Employment, Slovenian Ministry of Higher Education, Science & Technology, Alcatel, HP, IBM and Telekom Austria.

Sponsorship applications are considered on a first-come, first-served basis. To request a sponsorship proposal, please contact the Conference Secretariat - secretariat@eChallenges.org

Plenary Session Speakers

Keynote speakers already include:

- **Maravillas Rojo Torrecilla**, Councillor for Employment and Innovation, Ajuntament de Barcelona
- **Ernest Maragall**, Secretary of the Government, Generalitat de Catalunya
- **Dave Broster**, Head of eTEN Unit, European Commission
- **Joao Da Silva**, Director of the European Commission
- **Bernard Meric**, Senior Vice President, External Affairs EMEA, Hewlett Packard Europe
- **Rosalie Zobel**, Director of the European Commission



Maravillas Rojo,
Ajuntament de Barcelona



Ernest Maragall,
Generalitat de Catalunya



Dave Broster,
European Commission



Joao Da Silva,
European Commission



Bernard Meric,
HP Europe



Rosalie Zobel,
European Commission

International Programme Committee

A distinguished Programme Committee has been formed to review and provide feedback on extended abstracts, papers and presentations, and chair sessions.

The **e-2006 Programme Committee** includes

- **Paul Cunningham**, IIMC, Ireland (Chair)
- **Dr. Robert Alard**, ETH Zurich, Switzerland
- **Pete Bramhall**, Hewlett-Packard Laboratories, UK
- **Dr. Jonathan Cave**, RAND Europe, UK
- **Miriam Cunningham**, IIMC, Ireland
- **Prof. Stephen Curwell**, University of Salford, UK
- **Kim Davis**, Research Council of Norway
- **Dr. Sharon Dawes**, Center for Technology in Government, University at Albany SUNY, USA
- **Prof. Jose Delgado-Penin**, Universitat Politècnica de Catalunya, Spain
- **Prof. Asuman Dogac**, Middle East Technical University, Turkey
- **David Esteban**, TECHFORCE S.L., Spain
- **Prof. José C. González**, Universidad Politécnica de Madrid, Spain
- **Valerie Gregg**, Information Sciences Institute, University of Southern California, USA
- **Dr. Nenad Ivezic**, NIST, USA
- **Prof. Bernhard Katzy**, CeTIM, Netherlands
- **Oriol Lloret**, Generalitat de Catalunya, Spain
- **Gareth MacNaughton**, HP Europe, Belgium
- **Prof. Ann Macintosh**, Napier University, UK
- **Jesse B.T. Marsh**, Atelier Studio Associato, Italy
- **Micheál Ó Foghlú**, TSSG, WIT, Ireland
- **Alvaro Oliveira**, Alfamicro Lda., Portugal
- **Dr. Stephan Raimer**, Wirtschaftsförderung und Technologietransfer Schleswig-Holstein GmbH, Germany
- **Jonathan Sage**, IBM Business Consulting, Belgium
- **Prof. Paul Schoensleben**, ETH Zurich, Switzerland
- **Hans Schaffers**, Telematica Instituut, Netherlands
- **Dr. Philip Seltsikas**, University of Surrey, UK
- **Peter Stanbridge**, Korora Limited, UK

- **Richard Stevens**, Insiel SpA, Italy
- **Prof. Anibal R. Figueiras Vidal**, Universidad Carlos III de Madrid, Spain
- **Prof. Roger Wallis**, Royal Institute of Technology, Sweden
- **Peter Weiss**, AIFB, University of Karlsruhe, Germany
- **Stefan Wesner**, HLRS, Germany

Organising Committee

- **Miriam Cunningham**, IIMC, Ireland
- **Paul Cunningham**, IIMC, Ireland



Conference Secretariat

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Conference Portal & Delegate Showcase

www.eChallenges.org



Wednesday,
October 25,
2005

08:00 Registration

09:00 Opening Plenary 1a

Chair: [Joao Da Silva, European Commission, Belgium](#)

Barcelona - City of Innovation

Maravillas Rojo Torrecilla, Councillor for Employment and Innovation, Ajuntament de Barcelona

Title to be confirmed

Ernest Maragall, Secretary of the Government, Generalitat de Catalunya

Strategies for our Networked Future

Joao Da Silva, European Commission, Belgium

Implementing ICT Policies through Sustainable eServices

Dave Broster, European Commission, Belgium

Education in the 21st Century

Bernard Meric, Hewlett-Packard Europe, Switzerland

10:30 Coffee Break: Exhibition & Networking

11:00 Session 2a: [Networked Business 1: Case Studies](#)

Chair: [Jose C. Gonzalez, Universidad Politecnica de Madrid, Spain](#)

A Software Platform for Knowledge-intensive Services to Favour eBusiness Processes: the Talea Case Study

Elena Cigliano, CSP-Innovazione nelle ICT, Italy

Extended Postal Enterprise: Using Technology to Improve Customer Value and Empower Franchisees in Integrated Business Framework

Damir Trninic, Post Serbia, Serbia & Montenegro

The Effects of Standards-based eBusiness in the Public Sector: A Project Status Report

Eva Söderström, University of Skövde, Sweden

Consolidating Usability - Case Study on Implementing the "Styleguide-Web"

Stephan Raimer, Wirtschaftsförderung und Technologietransfer Schleswig-Holstein GmbH, Germany

11:00 Session 2b: [eGovernment 1: Process Issues](#)

Chair: [European Commission, Belgium](#)

Building Response Capacity through Cross-boundary Information Sharing: The Critical Role of Trust

G. Brian Burke, Center for Technology in Government, University at Albany, State University of New York, United States

Strategic Options for Pan-European E-Government Interoperability

Libor Neumann, ANECT a.s., Czech Republic

Virtual Revenue Administration, Turkey: An Innovative Implementation of ICT and BPR towards a Citizen-Centric Tax Authority

Yenal Gogebakan, cybersoft, Turkey

Uptake in Online Tax Filing in Ireland (ROS)

Conor Hegarty, Revenue Commissioners, Ireland

11:00 Session 2c: [Collaborative Work 1: Collaboration & Design Issues](#)

Chair: [Teresa De Martino, European Commission, Belgium](#)

openAdap.Net: A Collaborative Sharing Environment

Javier Iglesias, University of Lausanne, Switzerland

Design and Emotions have a Key Role in the Next Generation of Goods and Services

Miguel Tito, IBV, Spain

Adaptive Complexity Management for Industrial Collaborations

Sebastian Döring, RWTH Aachen University, Germany

Introduction of LBS in the Workplace: Sociolegal Issues

Nicole Turbe-Suetens, Distance Expert, France

11:00 Session 2d: [Technology Enhanced Learning 1: Issues & Case Studies](#)

Chair: [Stephan Raimer, Wirtschaftsförderung und Technologietransfer Schleswig-Holstein GmbH, Germany](#)

iCamp: The Educational Web for Higher Education in an Enlarged Europe

Barbara Kieslinger, Centre for Social Innovation, Austria

Case study: Lessons learned from Implementing eLearning based Programs for Undergraduate and Continuing Education in Project Management at NTNU

Bassam Hussein, NTNU, Norway

Legal Issues of Access Rights Management in an eLearning Environment

Dana Irina Cojocararu, University of Oslo, Norway

11:00 Session 2e: [Smart & Virtual Organisations 1: Applications](#)

Chair: [Nenad Ivezic, National Institute of Standards and Technology, United States](#)

Service Operating Cost Transparency in Customer and Supplier Relationships

Oliver Schneider, ETH Zurich, Switzerland

Cold-Trace: a Mobile-based Traceability Solution Rendering Fleet Management more Effective

Yolanda Ursa, INMARK, Spain

Personal Attribute Provider: A Secure Framework for Personal Attribute Exchange on the Internet

Masayuki Chiba, Mitsubishi Research Institute Inc., Japan

11:00 Session 2f: [eHealth 1: Issues & Case Studies](#)

Chair: [Asuman Dogac, Middle East Technical University, Turkey](#)

Semantic Web in Medicine: The Role of Ontologies

Paola di Giacomo, University La Sapienza of Rome, Italy

Construction of a Process Model for the Integration of Formal Methods in the Development of Medical Guidelines

Mar Marcos, Universitat Jaume I, Spain

eChallenges in the Implementation of eHealth Services Over a Hybrid Network Architecture

Angelina Kouroubali, Foundation for Research & Technology-Hellas, Greece

Business Potential for e-Health Value-added Services: an Application on Orphan Drug Market

Stefano Bianchi, Softeco Sismat S.p.A., Italy

11:00 Session 2g: [SME Industrial Issues](#)

Chair: [Richard Stevens, Insiel SpA, Italy](#)

An ICT-supported Methodology for Expert Identification in the Technology Monitoring Process

Sven Schimpf, Fraunhofer IAO, Germany

Towards Effective Knowledge Management: A Requirements Analysis of European Manufacturing SMEs

Kathryn Cormican, CIMRU, NUI Galway, Ireland

Open Sources to Empower SMEs

Henk de Poot, Telematica Instituut, Netherlands

SME Interoperability Establishing Methodology: a Guided Roadmap for the Journey to Interoperability

Igor Santos, European Software Institute, Spain

11:00 Session 2h: [International Cooperation Issues](#)

Chair: [Hans Schaffers, Telematica Instituut, Netherlands](#)

The Field of IS and "Indian reasoning": Attempting the Initiation of a Shared Research Agenda

Surbhi Sharma, Interactive Technology Software & Media Association (ITSMA), India

Experiences and Approach to Exploitation for Large Research Projects

María Aránzazu Toro Escudero, Telefónica I+D, Spain

The PACE Exploitation Toolkit

Adamantios Koumpis, ALTEC S.A., Greece

12:30 Lunch Time: [Exhibition & Networking](#)

14:00 Session 3a: [Networked Business 2: Applications](#)

Chair: [Paul Schoensleben, ETH Zurich, Switzerland](#)

Business Integration for eServices in collaborative Car Breakdown Support

Tobias Brosze, FIR: Institute for Operations Management at RWTH Aachen, Germany

Economics of a Portal for Teenagers: Making Mix of Real and Virtual Life Profitable

Andrzej P. Urbanski, Poznan University of Technology, Poland

SITAD: A Model of Regional SDI for Delivering Cross-Border Information on Geographical Data

Silvana Griffa, CSI Piemonte, Italy

14:00 Session 3b: [eGovernment 2: Delivery & Assessment of eGovernment Services](#)

Chair: [Sharon Dawes, University at Albany/SUNY, United States](#)

An Intelligent front-end for Government Websites

Peter Cruickshank, Napier University, United Kingdom

Mobile Services for Government

Ljupco Antovski, Institute of Informatics, The Former Yugoslav Republic of Macedonia

ORIENT: An Expert-based Tool for Assessing the User-Oriented of eServices

Alexandros Mourouzis, Foundation for Research and Technology-Hellas (FORTH), Greece

The e-Citizen Charter as an Instrument to boost e-Government

Matt Poelmans, ICTU (e-Citizen Programme), Netherlands

14:00 Session 3c: [Collaborative Working Environments 2: Case Studies](#)

Chair: [Philip Seltsikas, University of Surrey, United Kingdom](#)

Towards the Experimental Work of Ubiquitous Workware and Collaboration

Masayoshi Furuya, Japan Business Machine and Information System Industries Association, Japan

Lessons Learned from the Successful Implementation of a Structured Change Management Approach

Andy Croft, Barclaycard, United Kingdom

European Semantic Portal on Workplace Safety

Ainhoa Llorente Coto, ROBOTIKER FOUNDATION, Spain

Adoption of a Collaborative Working Environment by the European Research Community of Human Factors for Intelligent Transport Systems

Arnaud Bonnard, INRETS, France

Collaborative Working Environments: an Opportunity for the e-integration of Acceding Countries – Romanian NE Perspective

Rusu Teodora, Petru Poni Institute of Macromolecular Chemistry, Romania

14:00 Session 3d: [Technology Enhanced Learning 2: Collaborative Learning](#)

Chair: [tbc, European Commission, Luxembourg](#)

From Peer Learning to P2P Learning - New Life or Obsolescence for the Traditional Learning Institutions?

Ulf Blomqvist, VINNOVA - Swedish Agency for Innovation Systems, Sweden

Designing On-Line Discussion Forums Centered on Learners

Katherine Chiluiza, Escuela Superior Politécnica del Litoral, Ecuador

New Conceptual Paradigms for Introducing Group Work and Group Based Technology in the Higher Education Environment

Alan Hogarth, Glasgow Caledonian University, United Kingdom

Services for the Implementation of a Collaborative Modelling Environment: the e-COMODE Project

Esther Casado, Atos Origin sae, Spain

14:00 Session 3e: [Smart & Virtual Organisations 2: Collaboration & Indicators](#)

Chair: [Robert Alard, ETH Zurich, Switzerland](#)

Analysis of Current Status and Trends regarding the Coordination and Integration between Business Related Services and the Manufacturing Supply Chain

Bogdan Nitu, FIR, Germany

Peer-to-Peer Based Lifecycle Management for Collaborative Business Processes

Philipp Walter, German Research Center for Artificial Intelligence (DFKI), Germany

Ontology-Based Reusable Process Patterns for Collaborative Work Environments in the Construction Industry

Peter Katranuschkov, Dresden University of Technology, Germany

ICBENCH - Key Performance Indicators for the Portuguese Construction Industry

Henriqueta Nóoa, FEUP- Engineering Faculty of Porto, Portugal

14:00 Session 3f: [eHealth 2: Applications](#)

Chair: [Dave Broster, European Commission, Belgium](#)

3D Human - An Interactive Human Anatomy Browser using Ultra Compact Shape Representation

Valery Rutkovskiy, Krasnoyarsk State Technical University, Russian Federation

ORTHOSIM: the European Simulation Service Provider (SSP) for Orthopaedic Surgery

Ana-Cruz García, Instituto de Biomecánica de Valencia, Spain

SAPHIRE: A Semantic Web Service based Clinical Guideline Deployment Infrastructure Exploiting IHE XDS

Gökçe Banu Laleci, Middle East Technical University, Turkey

14:00 Session 3g: [SME Collaboration & Integration Issues](#)

Chair: [Peter Weiss, AIFB, University of Karlsruhe, Germany](#)

Supporting E-Business Integration in North Wales

Thomas Kirkham, University of Wales Bangor, United Kingdom

Knowledge-based Collaborative Environment for SMEs in Construction Sector

Mikel Sorli, LABEIN, Spain

A Sustainable Approach to Promote Collaboration among Europe's Small and Medium Enterprise Industrial Clusters

Richard Stevens, Insiel SpA, Italy

14:00 Session 3h: [New Member States and Candidate Countries](#)

Chair: [Jonathan Cave, RAND Europe, United Kingdom](#)

Modeling ICT Diffusion

Iskra Popova, Mid Sweden University, Sweden

Support Organisations to Benefit from European Initiatives: the Star-net Project

Gil Gonçalves, University of Porto, Portugal

Regional Cooperation as a Way for Information Society Development in SEE

Marijana Vidas Bubanja, Stability Pact for SEE, Serbia & Montenegro

An Approach in ERA Building - the Case of the EU ALIPRO Project

Borka Jerman Blazic, Jozef Stefan Institute, Slovenia

15:30 Coffee Break: [Exhibition & Networking](#)

16:00 Session 4a: [Networked Business 3: Issues & Applications](#)

Chair: [Stefan Wesner, High Performance Computing Centre Stuttgart, Germany](#)

Process-Based Performance Measurement of Networked Businesses

Thomas Matheis, German Research Center for Artificial Intelligence (DFKI), Germany

A Multi-Agent Market Simulator to support Negotiation Decision Making

Maria João Viamonte, Instituto Superior de Engenharia do Porto, Portugal

Enterprise Model Driven Creation of Business Protocols

Timo Kahl, DFKI, Germany

Business Rule-enabled Process Modelling

Christian Seel, German Research Center for Artificial Intelligence, Germany

16:00 Session 4b: [eGovernment 3: Case Studies](#)

Chair: [Stephen Curwell, University of Salford, United Kingdom](#)

Booking and Payment On Line Services of Turin Municipality Structures and Services

Franco Carcillo, City of Turin, Italy

eGovernment in Lithuania: Readiness, Preconditions and Problems

Rimantas Gatautis, Kaunas University of Technology, Lithuania

Virtual Planning through the use of Interoperable Environmental Simulations and OpenGIS GML

Souheil Soubra, Centre Scientifique et Technique du Batiment, France

eGovernment in Shanghai: The Exploration and Practice of Urban Management Based on Gridded Management Theory

Yuanfang Wang, Shanghai Jiaotong University, China

16:00 Session 4c: [Collaborative Work 3: Living Labs](#)

Chair: [Jesse Marsh, Atelier Studio Associato, Italy](#)

Wearable Computing and Living Labs – Synergy at Work

Michael Lawo, TZI Universität Bremen, Germany

Lessons learned from two Dutch Living Labs: Freeband and Kenniswijk

Ingrid Mulder, Telematica Instituut, Netherlands

Madeira Island Living Lab Rural Domain

Alvaro Oliveira, Alfamicro Lda., Portugal

16:00 Session 4d: [Technology Enhanced Learning 3: Learning Objects](#)

Chair: [tbc](#)

Making Learning Objects useful with Semantic Web Services

José-Manuel López-Cobo, Atos Origin sae, Spain

Establishing Technical Quality Criteria for Learning Objects

Fredrik Paulsson, Umeå University & KTH, Sweden

16:00 Session 4e: [Smart & Virtual Organisations 3: Product Related Issues](#)

Chair: [Bernhard Katzy, CeTIM, Germany](#)

Towards a Process Reference Model for the Management of Industrial Services

Andreas Nobs, ETH Zurich, Switzerland

Methods and Tools for the Networked Product Innovation Process

Echave Idoia, FUNDACIÓN TEKNIKER, Spain

A Lean Solution for Modeling and Analysing Production Networks of SMEs

Soeren Guenther, ETH Zurich, Switzerland

Improving the Use and Exchange of Information in Industrial Service Organisations

Andre Minkus, ETH-Zurich, Switzerland

14:00 Session 4f: [eHealth 3: Telemedicine Applications & Case Studies](#)

Chair: [Asuman Dogac, Middle East Technical University, Turkey](#)

Effectiveness of International Trans-Telephonic ECG System Use in Clinical Practice for Patients Awaiting Elective CABG Surgery at Home

Giedrius Vanagas, Kaunas University of Medicine, Lithuania

Lyra: Home Hospitalisation Distributed Management System

Carolina Marco Bellver, Generlitat Valenciana, Spain

Extension of Asynch-NET Architecture for Telemedicine: Network for Clinic Centers in the Rural Areas of Developing Countries

Kenedy Greyson, University of Dar es Salaam, United Republic of Tanzania

Performance Evaluation of a Flexible Framework Proposal for E-Gov Applications using the Return Path of Digital Television

Mauro Margalho Coutinho, UNAMA, Brazil

16:00 Workshop 4g: [Towards a Single European Information Space for SMEs](#)

Chair: [Michael Ryba, University of Stuttgart, Germany](#)

The SEEM path to a Single European Information Space

Ricardo Goncalves, UNINOVA, Portugal

Digital Ecosystems of Small Companies in the Enlarged Europe

Flavio Bonfatti, University of Modena and Reggio Emilia, Italy

Towards Ontology Based Information and Communication Systems in the Single European Information Space for SMEs

Silvia Sancho Silvestre, AITEX, Spain

Taking the Most of MDA and SOA to Challenge SMEs in the Advent of a Single European Information Space

Marco Delgado, UNINOVA, Portugal

16:00 Workshop 4h: [IST Initiatives in Africa](#)

Chair: [Paul Cunningham, IIMC Limited, Ireland](#)

eAdoption Activities in South Africa

Chris Morris, CSIR, South Africa

An Assessment of E-Skills, ICT Policies, Strategies and Infrastructure in the Public Service in Botswana

Dorothy Mpabanga, University of Botswana, Botswana

E-Med Tex-Net: Cluster for the Development of a Euro-Mediterranean Partnership Network in the Textile Clothing Sector

Hazem Abbas, Ain Shams University, Egypt

17:30 Tutorial 5a: [Networked Business 4: Current Research & FP7](#)

Networked Business: Current Research & Future Directions

Marion Le Louarn, European Commission, Belgium

17:30 Tutorial 5c: [Collaborative Working Environments 4: Current Research & FP7](#)

Collaborative Working Environment: Current Research & Future Directions

Bror Salmelin, European Commission, Belgium

17:30 Tutorial 5d: [Technology-Enhanced Learning 4: Current Research & FP7](#)

Technology Enhanced Learning: Current Research & Future Directions

tbc, European Commission, Luxembourg

17:30 Tutorial 5e: [GRID - Current Research & FP7](#)

GRID: Current Research & Future Directions

Wolfgang Boch, European Commission, Belgium

17:30 Tutorial 5f: [State-of-play on the European Commissions' RFID Consultation Activities](#)

Chair: [Peter Fatelnig, European Commission, Belgium](#)



Thursday,
October 26,
2005

09:00 Session 6a: [Networked Business 5: Interoperability Architecture Issues](#)

Chair: [Marion Le Louarn, European Commission, Belgium](#)

A Validation Architecture for Advanced Interoperability Provisioning
Nenad Ivezic, National Institute of Standards and Technology, United States

Federated Message-based Architecture for eBusiness Interoperability in New Member States SMEs

Claudia Guglielmina, TXT e-solutions s.p.a, Italy

The Requirement for an Interoperability Service: Power-Distribution in an eBusiness World

Nicolai Bieber, AI AG, Germany

Using Onion Routing to Secure Peer-to-Peer based Business Collaboration

Fabian Stäber, Siemens AG, Germany

09:00 Session 6b: [eGovernment 4: Regional Government Case Studies](#)

Chair: [Oriol Lloret, Generalitat de Catalunya, Spain](#)

eGovernment and Multi-Level Governance: A Comparative Examination of Catalonia (Spain) and Ontario (Canada)

Mila Gascó, International Institute on Governance, Spain

From Local E-Government to Regional Development: Lessons Learned from the Digital Cities Program 1998-2006

Jose Moutinho, Technical University of Lisbon, Portugal

Secure Access to Local Government Online Services: the Case of Lombardy

Walter Castelnuovo, Università dell'Insubria, Italy

Open Source Software in Small City Governments and for Promoting Regional Entrepreneurship

Antao Moura, UFCG, Brazil

How to Avoid the Transformation of Barriers to OS Adoption in Public Administration into Barriers for Regional Development

Manon van Leeuwen, Fundecy, Spain

09:00 Workshop 6c: [Co-creative Living Labs](#)

Chair: [Marika Kaliff, European Commission, Belgium](#)

The European Network of LivingLabs for CWE - User-Centric Co-creation and Innovation

Annika Sällström, Luleå University of Technology, Sweden

Creating Environments where Innovation can Emerge: Human Factors in CWE Design

Paolo Martinez, Firenze Tecnologia - Azienda Speciale della Camera di Commercio, Italy

Living Labs for Collaborative Working Environments - A Multi-Agent System Architecture Proposal

Esteve Almirall, UPC, Spain

Exploring European Innovation through Diversity and Regional Collaboration

Jakob Rasmussen, Living Labs Europe, Denmark

09:00 Workshop 6d: [Next Generation in Technology Enhanced Learning](#)

Chair:

A Model for the Efficient Representation and Management of Online Collaborative Learning Interactions

Thanasis Daradoumis, Open University of Catalonia, Spain

Application of a Virtual Scientific Experiment Model in Different Educational Contexts

Anna Pierri, University of Salerno, Italy

How the ELGi Software Architecture Enables the Creation and Delivery of Adaptive Unit of Learning: the Implementation of the VSE Model

Anna Pierri, University of Salerno, Italy

The Grid Shared Desktop for CSCL

Pascal Dugenie, LIRMM, France

L4All - A Web-service based System for Lifelong Learners

Alexandra Poulouvassilis, Birkbeck, University of London, United Kingdom

09:00 Workshop 6e: [Virtual Organisations and Supportive ICT](#)

Chair: [Roberto Santoro, Collaborative Engineering, Italy](#)

A Professional Virtual Communities ICT Infrastructure

Roberto Ratti, TXT e-solutions, Italy

Configuration of Virtual Organisation Management Services

Iiro Salkari, VTT Technical Research Centre of Finland, Finland

Demonstration of a Functioning Social & Business Networking

Application of the Advanced collaborative Platform for Professional Virtual Communities

Gergely Doszpod, AIESEC International, The Netherlands

ICT Use and Shared Understanding in Virtual Teams: Insights from Six Case Studies

Joris de Rooij, Delft University of Technology, Netherlands

09:00 Session 6f: [eHealth 4: Hospital Applications & Case Studies](#)

Chair: [Paul Cunningham, IIMC Limited, Ireland](#)

ERDDS - A Test Case for the Integration of the European Radiology Sector

Enrico Morten, Softeco Sismat SpA, Italy

Medical Data in the Belgian Public Health Insurance Screened to Obtain a Useful Data Warehouse and Improved Communication

Nick De Swaef, Landsbond Neutrale Ziekenfondsen (National Union of Neutral Mutualities), Belgium

Compliance Improvement Using Intelligent Electronic Forms

Axel Saffran, intarsys consulting GmbH, Germany

A Framework for Decision Support Systems Creation: Application to the Cardiovascular Diseases Domain

Themis P. Exarchos, Unit of Medical Technology and Intelligent Information Systems, Greece

09:00 Workshop 6g: [SME Support Integration in FP7](#)

Chair: [Tanja Vos, Instituto Tecnológico de Informática, Spain](#)

Collaborating into the Future: Empowering SMEs to Innovate – Long-term, Self-defined, Collaboratively

Katrin Reschwamm, Fraunhofer Institute for Factory Operation and Automation (IFF), Germany

Improving the Support to SMEs by Streamlining Partner Search Facilities

Eric ACW van Pelt, SenterNovem, Netherlands

The Main Goals of the National Technology Platforms - the Spanish Case

Diego Soro, AETIC, Spain

09:00 Session 6h: [eAdoption](#)

Chair: [Jesse Marsh, Atelier Studio Associato, Italy](#)

A Tool for the Calculation of the eReadiness

Claudia Thonabauer, JK University of Linz, Austria

Automatic Benchmarking and Presentation of the First Results from the European Internet Accessibility Observatory

Mikael Snaprud, Agder University College, Norway

Regional E-business Adoption Benchmarking for Region - Challenges and Practises

Stanislaw Wrycza, University of Gdansk, Poland

11:00 Workshop 7a: **Business Interoperability**

Chair: **Man-Sze Li, IC Focus, United Kingdom**

Evolution of Business Interoperability in the Automotive Industry

Kristin Wende, University of St. Gallen, Switzerland

Assessing the Value of Interoperability: An Example from the Automotive Industry

Baptiste Lebreton, INSEAD, France

Semantic Reconciliation of Business Documents in a SOA Framework

Lorenzo Pondrelli, Gruppo Formula, Italy

Future Markets for Enterprise Interoperability: Some Issues for Consideration

Man-Sze Li, IC Focus, United Kingdom

11:00 Session 7b: **Security, Privacy & Identity Management**

Chair: **Pete Bramhall, Hewlett-Packard Laboratories Europe, United Kingdom**

Realizing Advanced Security Requirements for Inter-organizational Workflows

Andrea Nowak, ARC Seibersdorf Research GmbH., Austria

European Federated Identity Management Key Concepts through the Fidelity Approach

Davoux Alexis, France Telecom R&D, France

Best Practices in Federated Identity Scenarios

Manel Medina, Universitat Politècnica Catalunya, Spain

Hidden in Plain Sight – the Privacy Implications of Biometrics

Jonathan Cave, RAND Europe, United Kingdom

Biometric System of Users' Identification by Handwriting Dynamics "TEOFRAS"

Pavel Lozhnikov, Siberian State Automobile and Highway Academy (SibADI), Russian Federation

11:00 Workshop 7c: **ICT Supporting Emergency Response & Management**

Chair: **Georgios Tselentis, European Commission, Belgium**

Advanced Mobile Services for Search And Rescue (SAR)

Rainer Koch, University of Paderborn, Germany

A Peer to Peer Mobile Collaboration Model for Emergency Response

Dimitris Baltas, ATC ROM SRL, Romania

Improving Incident Management through the Provision of Accurate Indoor/Outdoor Location Information and Location Based Services for the Emergency Services

Robert Hammond, Sussex Police, United Kingdom

Playing with Fire - Participatory Design of Wearable Computing for Emergency Response

Markus Klann, Fraunhofer FIT, Germany

11:00 Session 7d: **ICT in Educational Environments**

Chair: **Kim Davis, Research Council of Norway, Norway**

Turning the Internet Around – e-Me: The Students Ideal e-Service

Lars Albinsson, University College of Borås, Sweden

Cost-Effective ICT Management in Educational Environments: the OASIS Project

Javier Ruiz, ETSI Telecomunicación UPM, Spain

The "Net in schools" Project

Ivana Soljagic Richter, Croatian Telecom Inc., Croatia

Mobile Technologies Enabling Ubiquitous Support for Undergraduate Students

Paul Hayes, National College of Ireland, Ireland

11:00 Workshop 7e: **Business Models - Based on Innovative Collaboration Infrastructures**

Chair: **Martin Hafner, University of Hohenheim, Germany**

Process-Logic based Value Networks for Mobile Grid Technology as Business Collaboration Infrastructure

Martin Hafner, University of Hohenheim, Germany

Private Business Infrastructures in a VO Environment

Jochen Haller, SAP AG, Germany

11:00 Session 7f: **eHealth 5: National & Regional Case Studies**

Chair: **Richard Stevens, Insiel SpA, Italy**

How the Portuguese are using the Internet for Health Purposes

Silvina Santana, University of Aveiro, Portugal

The CRS-SISS Project: A Regional Strategy for e-Health

Claudio Beretta, Regione Lombardia, Italy

Citizen-Centric e-Healthcare Management Based on the XML Web Services

Masakazu Ohashi, Chuo University, Japan

11:00 Session 7g: **Mobility 1: Issues**

Chair: **Mícheál Ó Foghlú, TSSG, WIT, Ireland**

Universal Ethernet Telecommunications Service: Towards a New Layer 2 based Internet

Jose Morales Barroso, L&M Data Communications, Spain

Ultra-wide Band: A Radio Technology to Widen the Business Models

Jorge Hernández Pablo, Telefónica I+D, Spain

On the Benefit of Using Mobile Technologies in Business Processes

Sina Deibert, University Mannheim, Germany

Aml Technology Based Business Improvements in Manufacturing SMEs

Uwe Kirchhoff, ATB, Germany

11:00 Session 7h: **eInclusion**

Chair: **Valerie Gregg, University of Southern California, United States**

eInclusion – Towards a Coherent European Policy Response to Social Inequalities in the Information Society

Ingo Meyer, empirica, Germany

Designing ICT for Older People

John Waterworth, Umea University, Sweden

Advanced Technology and Interfact for Interactive Speech Impediment Therapy

Dora Csendes, University of Szeged, Hungary

12:30 Lunch Time: **Exhibition & Networking**

14:00 Workshop 8a: **Contracting in an eBusiness Environment I**

Chair: **Bastian Koller, HLRS, Germany**

Contractual Frameworks for Enterprise Networks and Virtual Organisations in eLearning

Tobias Mahler, Norwegian Research Center for Computers and Law, Norway

Towards Autonomous Brokered SLA Negotiation

Bastian Koller, HLRS, Germany

An Enhanced Strategy for SLA Management in the Business Context of New Mobile Dynamic VO

Francesco D'Andria, Atos Origin, Spain

Filling The Gap Between SLA And Monitoring

Olivier Nano, Microsoft, Germany

14:00 Workshop 8b: **Coordinating eGovernment R&D Support in Europe: How to Best Reach the European Research Agenda**

Chair: **Kim Davis, Research Council of Norway, Norway**

eGOVERNMENT – European eGovernment Research Funding Agency Network

Kim Davis, Research Council of Norway, Norway

Research and Development for Innovation in the Public Sector – A National Agenda for Renewal

Kim Davis, Research Council of Norway, Norway

Innovative Development of Cross-Boundary Public eServices

Madeleine Siösteen Thiel, VINNOVA (Swedish Governmental Agency for Innovation Systems), Sweden

14:00 Workshop 8c: [Breaking Rural Development Barriers Through Collaborative Working Environments Related Technologies](#)

Chair: [Krystyna Marek, European Commission, Belgium](#)

Exploiting Spatial Data Infrastructures for Rural Mobility

Michael Gould, GeoSpatial Partners, Spain

Wireless Technologies Enhancing Collaborative Involvement and Bridging over Water in the Turku Archipelago

Patrizia Hongisto, Helsinki School of Business, Finland

AMI@Work Family of Communities Facilitating e-Work and e-Business Innovation and Implementation of the i2010 Initiative

Adam Turowiec, University of Adam Mickiewicz, Poland

14:00 Session 8d: [Technology Enhanced Learning & Skills Assessment](#)

Chair: [David Esteban, TECHFORCE, S.L., Spain](#)

Benchmarking Lifelong Learning and eLearning in Regions: Measuring What Really Counts

Karsten Gareis, empirica Gesellschaft für Kommunikations- und Technologieforschung mbH, Germany

Measuring and Benchmarking Digital Literacy Strategies and Efforts: the BENTLI Project

Manon van Leeuwen, Fundecy, Spain

Performance-centered e-Learning in the Framework of Industry/University partnership

Manuel Castro, DIEEC/UNED, Spain

A Survey of ECDL "Graduates" in Italy

Fulvia Sala, AICA, Italy

14:00 Workshop 8e: [Grid Economics](#)

Chair: [Maria Tsakali, European Commission, Belgium](#)

Incentives for Resource Provision in Scientific Grids

Costas Courcoubetis, Athens University of Economics and Business, Greece

Economic Modeling of Grid Services

Jörn Altmann, International University Bruchsal, Germany

Techno-Economic Analysis for Open Grid Services

Junseok Hwang, Seoul National University, Republic of Korea

Self-Organizing ICT Resource Management - Policy-based Automated Bidding

Dirk Neumann, University of Karlsruhe, Germany

14:00 Tutorial 8f: [Working Successfully in Teams](#)

Chair: [Sue Pendell, Colorado State University, United States](#)

The tutorial addresses fundamental requirements for team success through answering the following questions:

What is a team?

How do successful teams work?

What characterizes high performance teams?

What are the ground rules for teams?

What do good team members do?

How can you deal with ineffective team members?

14:00 Session 8g: [Mobility 2: Applications](#)

Chair: [Stefan Wesner, High Performance Computing Centre Stuttgart, Germany](#)

Self-adaptive Applications on the Fly for Mobile Users

Jose Manuel Sanchez, IntegraSys, Spain

A Multimedia Service Platform for Enterprises over Multiple Wireless Networks

Alvaro Canivell, Escuela Técnica Superior de Ingeniería de Sevilla, Spain

A Novel Context-aware System Based on a Bluetooth Sensor Network

Carlos Fernández Herranz, Universidade da Coruña, Spain

Implementation of WiMAX over GSM/GPRS Networks

Naveed Ali Kaim Khani, The French South African Technical Institute in Electronics, South Africa

Advanced Web GIS-based Services for Increasing Competitiveness of SMEs in the European Wine Industry

Massimo Bertoncini, Engineering Ingegneria Informatica, Italy

14:00 Session 8h: [eTourism/Cultural Heritage](#)

Chair: [Alvaro Oliveira, Alfamicro, Lda., Portugal](#)

A Context-aware eTourism Application Enabling Collaboration and Knowledge Exchange among Tourists

Federica Paganelli, CNIT, Italy

Agamemnon: A Multimedia Guide to Archaeological Sites on Mobile Phones

Matteo Villa, TXT e-Solutions, Italy

A Mobile Tourist Guide

Izaskun Mendia, Fundación ROBOTIKER, Spain

Incorporating User Requirements of the Disabled Traveller Market in Developing an Inclusive e-Marketplace for Accessible Tourism in Europe: Technical Challenges

Eleni Michopoulou, University of Surrey, United Kingdom

15:30 Coffee Break: [Exhibition & Networking](#)

16:00 Workshop 9a: [Contracting in an eBusiness environment II](#)

Chair: [Bastian Koller, HLRS, Germany](#)

Negotiating Contracts on the Grid

Dean Kuo, University of Manchester, United Kingdom

Challenges in EU Grid Contracts

Michael Parkin, The University of Manchester, United Kingdom

Service Level Agreements and Regulatory Compliance in eBusiness

Peter Matthews, Computer Associates, United Kingdom

16:00 Session 9b: [eVoting & eParticipation](#)

Chair: [Gareth MacNaughton, Hewlett Packard Europe, Belgium](#)

Integrating Internet Voting within Democracy Suite - Automated Election Workflow

Goran Obradovic, Dominion Voting Systems Corporation, Canada

The Paradigmatic Case of Electronic Voting in Switzerland: The Case of Neuchâtel

Gerard Cervelló, Scytll Online World Security S.A., Spain

Managing Security Risks in eVoting over the Internet

Jaak Tepandi, Tallinn University of Technology, Estonia

The Gov2DemOSS eParticipation Platform: A New Era Tool for eDemocracy Implementation

Alexandros Xenakis, Gov2u, Greece

Evaluation of the eParticipate project - The Use of Webcasting to Support and Encourage eParticipation

Catherine Howe, Public-i, United Kingdom

16:00 Workshop 9c: [Collaborative Games for Leisure and Edutainment](#)

Chair: [Leonie Schaefer, European Commission, Belgium](#)

Using Serious Games to Improve European Competitiveness

Bjorn Andersen, SINTEF, Norway

A Case Study of Applying Agile Principles to Build a Serious Game in Strategic Manufacturing

Manuel Oliveira, Alfamicro, Portugal

Exploring Mixed Reality Gaming Interfaces

Irma Lindt, Fraunhofer FIT, Germany

Gaming and Social Interaction in Mediated Environments: the PASION Project

Maria Cristina Brugnoli, Telecom Italia, Italy

From Edutainment to Innovation – Developing a New Playground for Serious Games

Jacob Jaskov, Learning Lab Denmark, Denmark

16:00 Workshop 9d: [ICT Skills - Towards the Harmonisation of Certification Schemes](#)

Chair: [Wolffried Stucky, CEPIS, Germany](#)

Analysis of e-Skills Certification Schemes for ICT Professional Qualifications in Europe

Roman Povalej, Institute AIFB, University of Karlsruhe, Germany

Survey of Certification Schemes of ICT Professionals across Europe towards Harmonisation - The Harmonise Project

Peter Weiss, AIFB, University of Karlsruhe, Germany

16:00 Session 9e: [Innovation](#)

Chair: [Philip Seltsikas, University of Surrey, United Kingdom](#)

Personalization Strategies and Practices for Innovation

Robert Verburg, Delft University of Technology, Netherlands

Harnessing the Competitive Advantages of Disruptive Innovation

Jose Antonio Estevez Garcia, Atos Origin sae, Spain

Semantic Web-based Product Modelling, Ontologies and Configurators

Michel Bohms, TNO, Netherlands

Smart Prediction Assistant: An Innovative Customer Intelligence Platform for Next Generation Ambient Recommender Systems

Gustavo Gonzalez-Sanchez, University of Girona. Agents Research Lab. EASY Innovation Centre, Spain

16:00 Session 9f: [Knowledge Management 1: Issues & Applications](#)

Chair: [Jonathan Sage, IBM Business Consulting Services, Belgium](#)

Knowledge Management - A Multidisciplinary Survey and State-of-the-art

Corinna Flöck, CRSA-ECP, France

Virtual Knowledge Networks, a Typology

J.H.Erik Andriessen, Delft University of Technology, Netherlands

Ontology based Search and Storage of Market Information

Wolf Engelbach, Fraunhofer IAO, Germany

16:00 Session 9g: [Mobility 3: Case Studies](#)

Chair: [Mícheál Ó Foghlú, TSSG, WIT, Ireland](#)

Context-aware Service Coordination for Mobile Users

Heikki Helin, TeliaSonera Finland, Finland

Mobile Applications to Enhance Mobile Services- Case Study of Java Mobile Client

Heli Helaakoski, VTT Electronics, Finland

Workflow Technologies for a Virtual ISP

Klaus-Peter Eckert, Fraunhofer FOKUS, Germany

Distributed Ambient management Platform for Heterogeneous Devices and Networks in an iNtelligent Environment

Vera Stavroulaki, University of Piraeus, Greece

16:00 Session 9h: [Digital Content 1: Issues](#)

Chair: [Roger Wallis, Royal Institute of Technology, Sweden](#)

Popular Culture as a Driver of Internet Use

Håkan Selg, Royal Institute of Technology (KTH), Sweden

On-line Consumers – What Exactly Do They Share, Download and Stream?

Anders Edström-Frejman, Royal Institute of Technology, KTH, Sweden

Thieves or Customers? Down loaders and File Shares in the Digital World

Olle Findahl, World Internet Institute, Sweden

The IPR Regime and the Open Source/Open Content Movement – Complementary or on a Collision Course?

Lars-Erik Eriksson, Lars-Erik Eriksson IT Partner AB, Sweden



Friday,
October 27,
2005

09:00 Workshop 10a: [NESSI - the European Software and Services Technology Platform](#)

Chair: [Frederic Gittler, HP Labs, France](#)

NESSI Challenges

Véronique Pevtschin, Software AG, Belgium

SOA Development based on Enterprise Models and Existing IT Systems

Katrina Leyking, German Research Center for Artificial Intelligence (DFKI), Germany

NESSI e-Health: Accelerating the Impact of Information and Communication Technologies in the e-Health domain in Europe

Blanca Jordan, Atos Origin sae, Spain

NESSI SRA

Stefano De Panfilis, Engineering Ingegneria Informatica, Italy

09:00 Workshop 10b: [The eParticipation Research Challenges](#)

Co-Chairs: [Efthimios Tambouris, CERTH/ITI and University of Macedonia, Greece](#) & [Ann Macintosh, International Teledemocracy Centre, United Kingdom](#)

DEMO-net as a Collaborative Strategy to Support eParticipation Researchers

Efthimios Tambouris, CERTH, Greece

eParticipation in Policy-making: the Research and the Challenge

Ann Macintosh, International Teledemocracy Centre, United Kingdom

Some Research Lessons from the e-Community Forums in the Western Cape of South Africa

Wallace Taylor, Cape Peninsula University of Technology, South Africa

e-Participation Management: Policy-input from DEMO-Net

Kim Viborg Andersen, Copenhagen Business School, Denmark

09:00 Workshop 10c: [Online Communities of Practice](#)

Chair: [Flavius Sturm, Fraunhofer Institute for Industrial Engineering, Germany](#)

Cultural Aspects in Online Communities of Practice: How to deal with them?

Flavius Sturm, Fraunhofer Institute for Industrial Engineering, Germany

Language and Cultural Barriers in International Cooperation

Corinna Flöck, CRSA-ECP, France

Setting up Communities of Practice for Innovative Russian SMEs

Johann Riedel, University of Nottingham, United Kingdom

09:00 Workshop 10d: [Legal and Regulatory Challenges for IST and Way Forward](#)

Chair:

Legal Issues in Open Source Software

Zoe Kardasiadou, Centre for International and European Economic Law, Greece

Legal Issues of Software Agents

Giuseppe Contissa, Alma Mater Studiorum Università di Bologna, Italy

State-of-the-art of Legal Research in IST and Way Forward

Leena Pullmann, University of Goettingen, Germany

09:00 Workshop 10e: [Intelligent Transport Systems](#)

Chair: [Antonio Marqués, ETRA I+D, Spain](#)

Cooperative Sensors for Smarter Transport Systems

Manuel Serrano, ETRA I+D, Spain

Avenues for Detectors Exploitation in Traffic Modelling

Sergio Grosso, University of Newcastle / PTV, United Kingdom

Middleware for Wireless Cooperation in Embedded Systems in ITS
Pedro Jose Marron, University of Stuttgart, Germany

The AGATA Project: the ICT based Mobility Agency in the Livorno area

Paolo Frosini, Regione Toscana, Italy

09:00 Session 10f: **Knowledge Management 2: Applications**

Chair: **Peter Stanbridge, Korora Limited, United Kingdom**

New Linguistic-based Ontology-enabled Approaches in Biological Information Management

Dora Csendes, University of Szeged, Hungary

Analytic Information Services for the European Research Area

Brigitte Joerg, DFKI GmbH, Germany

An Ontology-based Software Solution Using Semantic Technologies to Support Interoperability in a Business Network

Heli Helaakoski, VTT Electronics, Finland

An Adjustable Knowledge Internet Portal for Support of Research and Business Activity

Yury Zagorulko, A.P. Ershov Institute of Informatics Systems, Russian Academy of Sciences, Russian Federation

09:00 Workshop 10g: **Aspects of Pervasive Computing I**

Chair: **Kevin Doolin, TSSG, Waterford Institute of Technology, Ireland**

Dynamic Session Management: Supporting Global User Mobility

Fiona Mahon, TSSG, Ireland

A Context Awareness Framework for Telecommunication Environments

Carsten Pils, Waterford Institute of Technology, Ireland

Redirecting Communication in a Pervasive System

Elizabeth Papadopoulou, Heriot Watt University, United Kingdom

A Business Case for Pervasive Services

Robert Mullins, TSSG, WIT, Ireland

09:00 Session 10h: **Digital Content 2**

Chair: **Roger Wallis, Royal Institute of Technology, Sweden**

User Oriented Business Models in P2P Services

Lars-Erik Eriksson, Lars-Erik Eriksson IT Partner AB, Sweden

DRM Application in the eCHASE Project

Lorenzo Blasi, Hewlett-Packard, Italy

Electronic Program Guide in the Context of Multimodal and Ubiquitous

Multimedia Service Provisioning

Kostas Tsagkaris, UPRC, Greece

10:30 Coffee Break: **Exhibition & Networking**

11:00 Workshop 11a: **Towards Interoperability: Studying Standardisation for ICT & e-Business**

Chair: **Kai Jakobs, Aachen University, Germany**

Open Standards and New Deliverables

Kai Jakobs, Aachen University, Germany

The Interface between Research and Standardisation

Heide Coenen, RWTH Aachen University, Germany

The Analysis of Standardised Technology in the Automotive Industry

Martina Gerst, University of Edinburgh, United Kingdom

Providing a Semantic Description for an Interoperability Framework using Ontologies

Nicola Gessa, University of Bologna, Italy

Semantic Interoperability for Governments: Approaches for Model-based Development of Standardized Information Exchange

Jack Verhoosel, TNO Information and Communicationtechnology, Netherlands

11:00 Workshop 11b: **eGovernment 2020 Roadmap**

Chair: **Bernhard Katzy, CeTIM, Germany**

The ICT Policy Mix for eGovernment, eContent, eBusiness and eWork - An Integrated and Prospective Policy Analysis

Martijn Poel, TNO ICT, Netherlands

Scenarios for eGovernment 2020 and Roadmap for Future eGovernment Research in Europe

Melanie Bicking, University of Koblenz-Landau, Germany

11:00 Workshop 11c: **Defining Collaborative Working Environments: Present & Future**

Chair: **Bror Salmelin, European Commission, Belgium**

The Way towards a Technology Platform in Collaborative Working Environments: EC Vision

Bror Salmelin, European Commission, Belgium

Defining the Industrial Vision of CWE: RTD & Business Challenges

Nuria De Lama, ATOS ORIGIN, Spain

11:00 Workshop 11d: **Europe's Strategic Research Agenda to Deliver Secure, Dependable & Resilient European ICT Technologies to Empower the Citizen and Protect Critical Infrastructure**

Chair: **Jim Clarke, TSSG, WIT, Ireland**

SecurIST: Security & Dependability to Empower the Citizen in the 21st Century

Jim Clarke, TSSG, WIT, Ireland

ECOM Long Term Electronic Signature Plugtest

Kenji Urushima, Entrust Japan Co., Ltd., Japan

Bringing together the European Stakeholders for Security and Dependability

Aljosa Pasic, Atos Origin, Spain

11:00 Workshop 11e: **Implementing Sustainable eServices for Citizens and Business**

Chair: **Emile Normann, European Commission, Belgium**

11:00 Session 11f: **Knowledge Management 3: Case Studies**

Chair: **Peter Stanbridge, Korora Limited, United Kingdom**

Future of Knowledge Management (KM) in Higher Education Research in Singapore

Ching Leen Chiam, National Institute of Education, Nanyang Technological University, Singapore

How to Integrate (not only) Academic Paper Information Using Semantic Web Technologies

Martin Svihla, Czech Technical University in Prague, Czech Republic

A Knowledge Based approach to integrate heterogeneous Web Applications in organizations

Davide Guidi, University of Bologna, Italy

11:00 Session 11g: **Aspects of Pervasive Computing II**

Chair: **Kevin Doolin, TSSG, Waterford Institute of Technology, Ireland**

Developing a Pervasive System for a Mobile Environment

Howard Williams, Heriot-Watt University, United Kingdom

Integrating and Demonstrating Pervasiveness in a Scenario-driven Approach

Patrick Robertson, German Aerospace Center, Germany

Large-scale Interoperability, Integrating the Daidalos Project

Miguel Ponce de Leon, Waterford Institute of Technology, Ireland

12:30 Lunch Time: **Exhibition & Networking**

13:30 Closing Plenary 11a

Chair: **Rosalie Zobel, European Commission, Belgium**

The Impact of ICT on Energy Efficiency

Rosalie Zobel, European Commission, Belgium

Overview of Workshop Findings

Paul Cunningham, IIMC Limited, Ireland

Social Programme

In addition to a comprehensive Partners Programme during the conference, there is a post-conference programme, giving delegates the opportunity to see something of Barcelona, appreciate the Catalonian countryside and make **eChallenges e-2006** a valuable & enjoyable break for you and your partner.

Partners' Programme

During the three days of the conference, there is a partners social programme. The **Accompanying Persons Programme** costs **€175**, which includes the Networking Cocktail Reception on Wednesday and full day tours on Wednesday, Thursday and Friday.

Wednesday 25 October

Barcelona Sightseeing Tour - Full Day

Discover Barcelona's major attractions as we drive and walk around the city. We will stop at all the major tourist sites with plenty of time to get off the bus and explore. An English-speaking guide will travel with the group, providing a personal commentary on the city.

Thursday 26 October

Montserrat & Cava Trail - Full Day

Capture the heart of Catalunya on this trail to the iconic Montserrat and enjoy the sparkle in the rural wine cellars of one of the local wine makers. The day starts with a 4 hour visit to Montserrat to explore the monastic centre of Catalonia, home to the famous Black Virgin & la Escolania (boys choir). There is also time to explore the magnificent natural park & mountains with spectacular views over the plains of Catalunya. Following lunch (not included), the group will be transported along country roads to visit a regional wine makers, enjoy a chance to see how the wine is produced and even sample a bottle or two.

Friday 27 October

Girona & Costa Brava - Full Day

We journey to the Costa Brava and visit the colourful Roman city of Girona, a melting pot of different cultures. Explore the winding medieval streets of the Jewish quarter, the Arab baths and the grandeur of its Romanesque Cathedral. After 2 hours here, we head to the medieval village of Pals for lunch (not included). Afterwards, we follow the coastal route to admire the breath-taking seaviews, cliffs and coves of Costa Brava and Calella de Palafrugell, where we will stop briefly. We will then head back to Barcelona early so we can stop at Roca Village, a purpose built shopping-village, designed in traditional Spanish village style. This is popular, with many top brands selling the latest fashions at discounted prices.

Post Conference Social Programme

Saturday 28 October

Pyrenees & Historical Vic - Full Day

A fantastic opportunity to experience the spectacular Pyrenees mountains on a tailor-made day excursion from Barcelona. First stop is Vic, a beautifully maintained historical town, before heading on to the stunning stone-built village of Queralbs. From here you can catch the rack railway high into the Pyrenees, where you will have the chance to spend the rest of the day exploring Vall De Nuria, a sanctuary of natural beauty and mountain grandeur. For those with experience of mountain walking, good walking shoes and a good level of fitness, the guide will accompany you down the mountain (3 hour walk). For those who prefer to explore Nuria, the guide will agree the latest train to be taken back to Queralbs to join the group for the return trip to Barcelona.

This tour costs **€67 per person** (which includes transport, guide, rail ticket to and from Nuria but does not include lunch). There are a number of restaurants on Nuria, with different price points. Alternatively you can buy a picnic in Vic, and bring it with you.

Sunday 29 October

Tarragona & Glamorous Sitges - Full Day

Tarragona is the old Roman capital of Iberia. Travel back in time and retrace the footsteps of Roman gladiators where chariots raced by and walk across the magnificent Roman aqueduct. See the Old Quarter with its stunning cathedral. Then visit Roc de Sant Gaieta, a tiny Mediterranean village with its mix of Ibiza fishing houses, Seville-style patios and Roman-Greco influence. Finally, you will travel to Sitges to discover the Mediterranean atmosphere of this old fishing village with its shady streets, traditional houses, over a dozen beaches, cosmopolitan bars and restaurants.

This tour costs **€57 per person** (which includes transport and guide, but does not include lunch).

Barcelona Sightseeing Tour - Half Day

For those who have flights home on Sunday evening, there is a half day optional tour of Barcelona. Discover Barcelona's major attractions as we drive and walk around the city. We will stop at all the major tourist sites with plenty of time to get off the bus and explore. Our English-speaking guide will travel with the group and provide a personal commentary on the city. A full description of this tour is available on the conference portal. This tour costs **€25 per person** (which includes transport and guide, but does not include lunch).

Registration Information

It is necessary for all **eChallenges e-2006** delegates to register separately online. Please use your existing log in details for online registration.

Conference Fees

Authors Fees (Due by 30 June)

- Authors - EU New Member States (1), EU Candidate Countries (2) and Developing Countries (3) **€400**
- Authors - All countries except EU New Member States (1), Candidate Countries (2) and Developing Countries (3) **€500**

Please note that the author fee is only available to accepted presenters in the Programme (**one presenter per paper**). Co-authors who wish to participate should register as Delegates.

Delegates' Fees - Early Bird (Due by 31 July)

- Early Bird - EU New Member States (1), EU Candidate Countries (2) and Developing Countries (3) **€540**
- Early Bird - All countries except EU New Member States (1), Candidate Countries (2) and Developing Countries (3) **€590**

Delegates' Fees - Full Fee from 01 August

- Delegate Full Price **€695**

The Conference Fee includes:

- Entrance to all plenary and parallel sessions
- Entrance to Exhibition
- Documentation with proceedings on CD-Rom
- Three luncheons and refreshments at morning and afternoon breaks
- Networking Cocktail Reception
- Gala Dinner
- Cyber Café facilities

EU New Member States (2) Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia, Slovenia

EU Candidate Countries (3) Bulgaria, Croatia, Romania, Turkey.

Developing Countries (4) **Africa** (Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroun, Cape Verde, Central African Republic, Chad, Comoros, Congo (Republic of), Congo (Democratic Republic of), Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea Bissau, Ivory Coast, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sao Tome & Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia and Zimbabwe)

Asia (Bangladesh, Bhutan, Brunei, Cambodia, China, India, Indonesia, Laos, Malaysia, Maldives, Mongolia, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Thailand, Vietnam)

Caribbean and Pacific Countries (Antigua and Barbuda, Bahamas, Barbados, Belize, Cuba, Dominica, Dominican Republic, Grenada, Guyana, Haiti, Jamaica, St. Kitts & Nevis, St. Lucia, St. Vincent, Suriname, Trinidad & Tobago, Cook Islands, East Timor, Federated States of Micronesia, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu)

Latin America (Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay, Venezuela)

Mediterranean Partner Countries (Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, Syrian Arab Republic, Tunisia, West Bank & Gaza Strip)

Russia & NIS (Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan)

Western Balkan Countries (Albania, Bosnia-Herzegovina-Croatia, Former Yugoslav Republic of Macedonia, Serbia & Montenegro)

Accompanying Person Programme

The **Accompanying Persons Programme** costs **€175**, which includes the 3 full day tours and the Networking Cocktail Reception on Wednesday.

Terms & Conditions

1. All authors who are presenting a paper or making an oral presentation at **eChallenges e-2006** must complete payment registration online by **30 June** at the latest, prior to publication of the Final Programme.
2. In the case where a paper is jointly authored, the **presenter** of the paper is considered to be the author/presenter from a payment registration point of view. All co-authors are considered to be **delegates**.
3. Accepted Exhibitors (other than accepted presenters) must complete payment registration by **31 July**.
4. Delegates' fees must be paid before admission to the Conference and Exhibition.
5. IEEE Members are entitled to apply for a 10% discount on the appropriate fee. Please provide Membership No. as part of online registration and fax a copy of valid Membership card to +353-1-8170606.
6. There are **no refunds for cancellations** but substitutions may be made at any time prior to the event by contacting the Conference Secretariat.
7. Each individual must be registered separately on the **eChallenges e-2006** Conference portal.
8. Payment may be made by bank transfer or credit card (with some restrictions). Payments made by bank transfer must be **net of any bank charges** and the payment instruction should refer to "**eChallenges e-2006** Conference", your name, organisation and invoice number (if relevant).
9. Receipts are automatically issued electronically upon receipt of payment. If your organisation requires an invoice to process payment registration by bank transfer, please contact the Conference Secretariat.
10. Conference registration or hotel accommodation is not confirmed until full payment is received.
11. Online registration facilitates conference registration, booking of hotel accommodation, tours, attendance at Networking Cocktail Reception and Gala Dinner. It is possible to go back through online registration at any stage, book items not previously confirmed (such as accommodation and tours) and complete payment.
12. The registration desk will open on Tuesday 24 October from 16:00 to 19:30 and will remain open during normal conference hours from 08:00 on Wednesday 25 October.



Exhibition

eChallenges e-2006 features an Exhibition, which provides the opportunity to showcase research results and applications through technology demonstrations, whether funded commercially or at national, regional or European level. While some space will be offered for posters, most of the Exhibition will be reserved for innovative technology demonstrations.

Demonstration stands are reserved for live technology demonstrations, but can feature early prototypes or a pre-commercial launch to a highly targeted, knowledgeable community.

Participation in the Exhibition is rewarding, as it provides a valuable opportunity to make international contacts and to build relationships with potential partners or clients from around the world.

To maximise demonstration and networking opportunities for exhibitors, all coffee breaks and the Networking Cocktail are held in the Exhibition area.

The **eChallenges e-2006** Organising Committee is subventing the costs of a limited amount of exhibition space for suitable demonstrations and posters under a Competitive Call for Exhibitors. There will also be a Spanish National Pavilion sponsored by the Generalitat de Catalunya and Ajuntament de Barcelona showcasing Spanish RTD activities. Spanish organisations interested in participating should complete the online Exhibition form but will be evaluated separately.

Potential exhibitors will be selected based on the quality and relevance of their submission to the conference themes, with preference given to those presenting innovative technology demonstrations. To access the Exhibition Application Form online, visit the **eChallenges** portal.

Applications will be accepted up to **14 July**. All applicants who apply via the Competitive Call will receive feedback by **21 July**. Successful applicants must complete payment registration by **31 July**.

Since the level of competition for available exhibition stands is likely to be high, applicants are advised to clearly describe what they plan to demonstrate and the potential interest/value add for conference delegates.

General Terms & Conditions

1. All demonstration stands must be manned during specific exhibition times (10:30 - 11:00, 12:30 - 14:00, 15:30 - 16:00 and on Wednesday 25 October during the Networking Reception from 17:30 - 20:00).
 2. All accepted exhibitors (demonstration stand) must register and pay for 2 conference delegates/presenters by **31 July**.
 3. A limited number of Spanish exhibitors will be provided with exhibition space at no charge. Exhibitors from Developing countries, New Member States & Associated Candidate Countries will make a contribution of €250 for a stand & €25 for a poster space. Exhibitors from other countries will make a contribution of €300 for a stand or €30 for a poster space. Wi-Fi is provided in the Exhibition area.
 4. PCs, monitors and dedicated Internet access are additional cost items which are not sponsored. Each exhibitor is directly responsible for ordering and paying for such services, if required, with relevant local suppliers.
 5. Stand material, posters and literature should be put in place between 16:30 - 19:30 on Tuesday 24 October or before 08:30 on Wednesday 25 October. Nothing should be removed before 15:00 on Friday 27 October. Exhibitors must remove all materials from their stands between 15:00 - 16:30 on Friday 27 October.
 6. Material may be removed if the content or quality is not regarded as suitable by the **eChallenges e-2006** Organising Committee.
 7. While the conference will not be open to the general public and the Exhibition area will be locked each evening, the organisers cannot take responsibility for any losses incurred and exhibitors should ensure that they have sufficient insurance cover.
- The Conference Programme is subject to change at the discretion of the International Programme Committee Chair. Always refer to the Conference Portal for the most up to date information.
- The **eChallenges e-2006** Organising Committee is sponsoring an award for the best conference paper and an award for the best demonstration stand at the Exhibition.

Conference Portal & Delegate Showcase
www.eChallenges.org

e-2006 Supporting Organisations

