The IADIS International Conference Internet Applications and Research 2012 was held in Lisbon, Portugal, 17 – 19 July, 2012.

The IADIS Internet Applications and Research 2012 purpose was to address the main issues of concern within Internet and WWW.

The IAR 2012 received 23 submissions from more than 11 countries. Each submission had been anonymously reviewed by an average of five independent reviewers, to ensure the quality of the accepted submissions. Hence only 4 full papers were approved which meant an acceptance rate of 18 %. A few more papers were accepted as short papers. Extended versions of the best papers were published in the IADIS International Journal on Computer Science and Information Systems (ISSN: 1646-3692) and also in other selected journals, including journals from Inderscience.

The submissions were accepted under the following main areas:

- Accessibility
- Adaptive Web Systems
- Collaboration
- Computer-Mediated Communication
- Data Mining
- Database Planning and Development
- Digital Economy
- Digital Libraries and E-Publishing
- Distributed and Parallel Applications
- E-Business and E-Commerce Technologies
- E-Government Technologies
- e-Health Technologies
- E-Learning Technologies
- Electronic Data Interchange
- Quality, Evaluation and Assessment
- Extensible Languages
- Game Technologies
- Global Tendencies in WWW/Internet
- Groupware
- Human Computer Interaction & Usability
- Hypermedia
- Information Architectures
- Information Visualization
- Intelligent Agents
- Interfaces
- Internet & Customer Relationship Management
- Internet Payment Systems
- Internet Services
- Languages
- Metadata
- Mobile Web
- Multimedia
- Performance Issues
- Personalized Web Sites and Services
- Portal strategies
- Protocols and Standards
- Searching and Browsing
The Conference included the presentation of full papers and short papers, a tutorial by Jörg Roth, University of Applied Sciences Nuremberg, Germany and also one Keynote presentation by Dr. Stephan Lukosch, Associate Professor, Delft University of Technology, The Netherlands, an internationally distinguished researcher.

Conference Tutorial:

**MANAGING GEO DATA – USAGE OF OPEN STREET MAP FOR OWN SERVICES AND APPLICATIONS** by Prof. Jörg Roth, University of Applied Sciences Nuremberg, Germany

Abstract:

Several applications and mobile apps need access to spatial geo data. They often contain functions to display the user's position on a map, provide route planning or are able to look up important locations. To provide these functions, applications can use widely available service platforms such as Google Maps. However, sometimes it is useful to have the spatial services and data fully under own control. Reasons could be: costs, license models, service availability or the quality of spatial data.

Nowadays, we can use different sources to get spatial data. The most important source is Open StreetMap (OSM) – a community project to collect and disseminate world wide geo data. Meanwhile, OSM data has a high coverage, high quality and attractive license models. It thus is suitable even for small projects.

This tutorial presents the benefits and issues using OSM data for own projects. Among other topics this tutorial presents: OSM as a community platform, the format of OSM data, OSM data types, representation of geometries, non-spatial properties and names, classification of objects, topologies and route planning, painting maps, storing and accessing geo data. In addition, we present a sample workflow chain to import, process and manage geo data based on OSM for own projects.
Keynote Presentation:

K1 - TOWARDS EFFECTIVE COLLABORATION IN NEW EMERGING INTERACTION SPACES by Dr. Stephan Lukosch, Associate Professor, Delft University of Technology, The Netherlands

Abstract

Designers and engineers solve complex problems using many different tools. Often they work in various projects to bring in their expertise and thereby knowledge is dispersed over different team members, artifacts and systems. The used collaboration support tools are not used on a regular basis, exist in a variety of shapes, offer limited process support and do not adapt to changing needs of a team. As result, designers and engineers often face a complex collaboration environment and have to negotiate and perform adaptations manually. They are not interacting as a participatory system in which all team members trust each other and are willing to act towards a shared goal.

This impacts the effectiveness of the collaboration process and results in inefficient interaction and reduced team performance. This paper discusses the above issues in more detail. It presents previous work on shared data management, pattern-based design, context-adaptive collaboration and collaborative knowledge acquisition. Based on this background, the paper outlines a research agenda towards effective collaborative design and engineering based on new forms of collaborative interaction in traditional as well as emerging interaction spaces.

The proceedings were published both in Book (ISBN: 978-972-8939-73-1) and CD-ROM (ISBN: 978-989-8533-08-1).

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