

# **Workshop on Environmental Management Information Systems (EMIS)**

**in conjunction with**

## **IEEE Global Engineering Education Conference “Learning Environments and Ecosystems in Engineering Education” EDUCON 2011**

**Princess Sumaya University for Technology  
Amman, Jordan  
April 4-6, 2011**

**<http://www.educon-conference.org>**

Deadline for submissions: December 15, 2010

The increasing demand for sustainable strategies and the success of sustainable investments pressure companies to consider environmental issues not only on an operative, but a strategical level, going beyond legal compliance. Management is increasingly supported in this task by Environmental Management Information Systems (EMIS). Such systems are targeted - besides fulfilling legal requirements e.g. in waste management or hazardous materials - at optimizing material and energy flows, minimise emissions and waste, and establish production integrated environmental protection. A more efficient usage of resources often leads additionally to economic success, reducing the amount of required material and the amount of waste. Such management requires complex information systems, which have to harmonise economic and ecological goals.

In order to deal with this complexity, there is a need for highly educated personnel, which has knowledge in environmental management, technologies, and has comprehensive insight about the organisation and optimisation of business processes under environmental view points. Furthermore, techniques to model and optimise energy and material flows in companies are required, allowing the design, development, and application of EMIS.

The EMIS workshop addresses both: experience with case studies and other material as well as technical solutions based on Technology Enhanced Learning (TEL). These can cover topics (i) to describe the current state of the art and latest developments of EMIS and (ii) how to gain a holistic view of next generation EMIS in order to integrate environmental management on all layers of a company's IT infrastructure and management processes.

The main objective of this workshop is to bring researchers and practitioners together to explore the issues and challenges related to Enterprise Systems in higher education.

## Topics

We are looking forward to receiving contributions including, but not limited to, the following topics:

- ICT architectures for EMIS
- EMIS Integration
- EMIS in Enterprise Resource Planning Systems
- Environmental Management Accounting
- Sustainability Reporting
- EMIS Implementations
- Improving the usability of EMIS
- Assistance in Carbon Footprinting issues
- EMIS and Mobile Computing
- ...

## Submission

There are two types of paper for the Workshop, namely:

- Full Papers: Papers allocated 30 minutes for oral presentation (including discussion). They range for a minimum of 6 pages to a maximum of 10 pages.
- Short Papers: Papers allocated 20 minutes for oral presentation (including discussion). They range for a minimum of 4 pages to a maximum of 6 pages.

All papers accepted for the workshop EMIS, whatever the presentation format, will be published in the proceedings under an ISBN reference, on paper and on CD-ROM support, as long as the camera-ready submission, registration and copyright document have been received.

The paper template is available at:

[http://www.educon-conference.org/educon2011/documents/EDUCON2011\\_template.doc](http://www.educon-conference.org/educon2011/documents/EDUCON2011_template.doc)

## Workshop Format

All authors of accepted papers as well as other participants will be asked to read accepted papers abstracts before the workshop (paper abstract will be available online in advance) to facilitate discussion. Workshop participants will be also invited to take part in the EDUCON 2011 conference and other EDUCON 2011 workshops. The workshop publicity will be done by homepage linking, newsletter and personnel invitations. The author who has an accepted paper, irrespective of the paper type (full or short paper), must be registered as an author. No other registration type will be accepted.

## **Important Dates**

- **December 15, 2010** - submission deadline for full papers
- **January 10, 2011** - notification of acceptance/rejection
- **January 21, 2011** - Author registration
- **February 5, 2011** - submission of final papers
- **April 4 or 5 or 6, 2011** - the workshop

## **Organizers**

- Carl von Ossietzky University Oldenburg, Department of Computing Science, Department of Business Information Systems I / Very Large Business Applications (VLBA)

## **Workshop Chairs**

- Jorge Marx Gómez, Carl von Ossietzky University, Germany
- Daniel Söpke, Carl von Ossietzky University, Germany

## **Program Committee**

Will be announced soon...