

Call for Papers

ICANN Workshop on

“Intelligent Environmental Monitoring, Modelling & Management Systems for better QoL”

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Subjects:

Quality of Life (QoL) is directly related to the environmental pressures and conditions, including air quality, pollen, drinking and bathing water quality, noise pollution, waste production, energy consumption, nutrition and many others. The plethora of living patterns, as well as the availability of various ICT that are interwoven to the urban web, calls for a detailed, intelligent, personalized and yet easily generalized ways for monitoring, modelling and managing environmental systems and conditions. On this basis, the involvement of new ways of monitoring environmental parameters, as well as the employment of intelligent methods for analyzing and modeling environmental problems towards better management, is a major way for maintaining and improving quality of life. Human centric approaches in environmental information services also require intelligent, knowledge-centric methods and tools, that are flexible, adaptable to environmental problems, and perform better in terms of knowledge mapping and system behaviour reproduction. State-of-the-art intelligent environmental systems feature distributed intelligence, incorporating smart sensors, participatory sensing applications, actuators, equipment, and advanced knowledge of any changes in environment. Environmental management applications make use of computational intelligence methods and tools for better modeling, forecasting and decision making in environmental problems, aiming at supporting QoL. As part of ICANN 2010, the workshop will bring together researchers interested in all aspects of intelligent environmental monitoring, modeling and management topics and their applications.

The topics of interest include, but are not limited to:

- Intelligent Systems for Environmental/Ecological Technology
- Environmental/Ecological Knowledge Engineering Systems
- Semantics for efficient environmental/ecological data management
- Decision Support Systems for environmental design and modeling, impact assessment, intervention

and decision making, risk evaluation and prediction.

- Data mining environmental applications
- Intelligent sensing systems for environmental monitoring
- Emergency response systems
- Intelligent energy management systems

Prospective authors are invited to submit original, high quality manuscripts of up **to 6-pages** electronically to "*kkara@eng.auth.gr*" or "*envicann2010@isag.meng.auth.gr*". The submissions will be reviewed rigorously by an international review committee. The submission must conform to the Springer LNCS format, detailed instructions for preparing the manuscript in the required format can be found in <http://delab.csd.auth.gr/icann2010/submission.html>. All accepted papers will appear in a separate chapter of the ICANN 2010 conference proceedings, and will be considered (after review) for publication in an International Journal Special Issue (to be announced)

REGISTRATION:

At least one author of each accepted paper should register following the registration policy of the main event, in order for the paper to be published in the 20th ICANN Proceedings. Please visit <http://delab.csd.auth.gr/icann2010/registration.html>

IMPORTANT DATES:

Submission Deadline: May 8, 2010

Notification of acceptance: May 28, 2010

Camera-ready manuscript and pre-registration: June 24, 2010

Conference dates: September 15-18, 2010