

Annonce de conférence

Jeudi 27.01.2011 à 17:15, Salle GC A30 (Génie Civil)

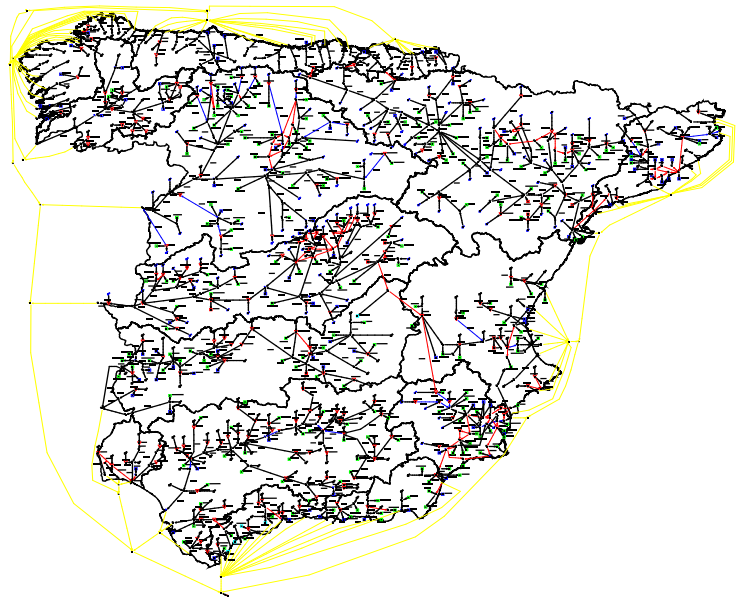
Javier PAREDES-ARQUIOLA

Assistant Professor, Water & Environmental Engineering Institute
Technical University of Valencia, Spain

Decision support systems for integrated river basin planning and management

New water policies around the world are demanding more integrated, participatory, sustainable, efficient, and equitable planning and management of water resources. All these considerations introduce a higher degree of complexity into the already complex task of integrated water resources management. In the process of making good decisions, information must be managed and analyzed about the feasible alternatives, their impact on the multiple objectives, the tradeoffs among them, as well as risks associated with them. To elaborate and analyze such information, sound science, technology, and expertise have to be involved. Moreover, tools for data management and analysis, and models are needed in order to cope with the complexity, the basin scale scope, and the huge amount of information, alternatives, and scenarios.

One of the best ways to conduct a transfer of knowledge between scientific-technical and social-stakeholders worlds, and to build a shared vision of the basin, is through the joint development of Decision Support Systems (DSS). Furthermore, DSS are essential for the purpose of providing integration, easiness of use, sensitivity analysis, and risk assessment.



AQUATOOL is a Decision Support System (DSS) shell for Integrated Water Resources Planning and Management. An essential feature of this DSS shell is that it allows for the multiple integration of many facets of water such as, quantity, quality, environment, economics; and also, water rights and priorities. It provides a graphical environment to design a scheme of a water resources system with geo-referenced data bases, facilitating the input, edition and analysis of data and results of the models that will be described later. It has been a crucial development in order to facilitate the daily use of the models by practitioners at the basin agencies, consultants, and stakeholders, in order to make available a shared vision of the system for discussions in water conflict situations

Durée de la conférence: env. 45 minutes, suivie d'une discussion

Prof. Dr Anton SCHLEISS