

The logo for the International Symposium on Environmental Software Systems (ISESS) is displayed in white, bold, sans-serif capital letters on a dark blue rectangular background.

**International Symposium on
Environmental Software Systems
Crowne Plaza Hotel, Prague, Czech Republic
May 22-25, 2007
www.isess.org**

Call for Papers - Distributed and Parallel environmental modelling paradigms

Models of fluid flow, whether weather / climate prediction, hydrological models or groundwater flows are at or near the pinnacle of computational complexity. Supercomputers were designed and built for, among other applications, simulations of fluid transport. Many engineering environmental models were originally developed on more modest computing frameworks: typically they are now available for personal computers. As larger scale problems are presented for environmental analysis, however, models must be linked across media interfaces or over differing temporal and spatial dimensions and scales.

Complex models can be constructed from simpler components. A multiprocessor configuration (or grid or vector processor) may lead to simulation of events too complex for uniprocessor architecture, but in order to be successful, the development distributed and parallel versions of state equations for environmental problems must be structured to take advantage of available opportunities for parallelism.

Contributors to this stream at ISESS will elaborate on the unique problems faced in implementing environmental models on distributed and parallel architectures. Problems of particular interest are up- and downscaling models of time or spatial step, maximizing efficiency of extra processing speed of multiple CPUs, distribution of sensitivity analysis or uncertainty, and novel incorporation of legacy uniprocessor environmental models to attain speedups without loss of model integrity.

Session Chair: David Swayne, University of Guelph, Canada
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Paper Submission Guidelines

Please send your abstract **before November 24, 2006**. Only electronic submissions **IN PDF FORMAT** are accepted. Please send your electronic PDF submission to the conference manager, Linda Robson (linda@isess.org). Only abstracts sent to this email address, in PDF format will be reviewed. Acceptance will be based on the abstracts and authors will be informed by December 22, 2006. Final versions of accepted papers AND registration of one author per accepted paper must be submitted before February 25, 2007. These papers will included in a pre-conference publication, tentatively under an IFIP ISBN.

Venue

The conference will tentatively be held at the Crown Plaza Hotel, Prague, Czech Republic (www.ichotelsgroup.com). The hotel is located in the residential embassy district, 15 minutes from the airport and 10 minutes from the heart of the city.



General Contact Information / Management

www.isess.org

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Sponsoring Institutions

