

Home

Online Library HESS

- Recent Final Revised Papers
- Volumes and Issues**
- Special Issues
- Library Search
- Title and Author Search

Online Library HESSD

Alerts & RSS Feeds

General Information

Submission

Review

Production

Subscription

Comment on a Paper



- Volumes and Issues
- Contents of Issue 2
- Special Issue

Hydrol. Earth Syst. Sci., 12, 635-644, 2008
www.hydrol-earth-syst-sci.net/12/635/2008/

© Author(s) 2008. This work is distributed under the Creative Commons Attribution 3.0 License.

Web services for distributed and interoperable hydro-information systems

J. Horak, A. Orlik, and J. Stromsky
Institute of Geoinformatics, VSB-Technical University of Ostrava, 17. listopadu 15, Ostrava-Poruba, 70833, Czech Republic

Abstract. Web services support the integration and interoperability of Web-based applications and enable machine-to-machine interaction. The concepts of web services and open distributed architecture were applied to the development of T-DSS, the prototype customised for web based hydro-information systems. T-DSS provides mapping services, database related services and access to remote components, with special emphasis placed on the output flexibility (e.g. multilingualism), where SOAP web services are mainly used for communication. The remote components are represented above all by remote data and mapping services (e.g. meteorological predictions), modelling and analytical systems (currently HEC-HMS, MODFLOW and additional utilities), which support decision making in water management.

- [Final Revised Paper](#) (PDF, 789 KB)
- [Discussion Paper](#) (HESSD)

Citation: Horak, J., Orlik, A., and Stromsky, J.: Web services for distributed and interoperable hydro-information systems, Hydrol. Earth Syst. Sci., 12, 635-644, 2008. [Bibtex](#) [EndNote](#) [Reference Manager](#)



Search HESS

Library Search

Author Search

News

- New Service Charges
- Financial Support for Authors
- ISI Impact Factor: 2.270

Recent Papers

01 | HESSD, 28 Apr 2009: Integrating field and numerical modeling methods for applied urban karst hydrogeology

02 | HESSD, 28 Apr 2009: Analyzing the relationship between peak runoff discharge and land-use pattern – a spatial optimization approach

03 | HESSD, 27 Apr 2009: Dynamically vs. empirically downscaled medium-range precipitation forecasts