



Special Session title: Water distribution system modeling, simulation and management

Special Session Chair: Prof. M. Franchini, Engineering Dept., University of Ferrara, Italy

Brief Description and topics

Water supply and distribution systems are complex, difficult to manage and understand in their behavior. Bursts, leakages, energy costs, districtualization are only some of the many problems the Utilities have to cope with every day to make fresh and potable water available to users with proper pressure, timing and acceptable costs. Sometime, due to limited water availability, intermittent supply is necessary as applied in many Mediterranean areas.

This special session wants thus to bring together researchers and practitioners creating a bridge between research and actual needs facing possible topics such as: Urban Water Systems Analysis, Water Infrastructure Asset Management, Real Time Monitoring, Modelling and Control, Demand Forecasting, Leakage & Energy Management, Water Distribution Systems Analysis, Water Network Optimization and Planning and Water Security, Reliability and Resilience.