

Water Smart Systems: Computational Engineering Applications

Scientific area: Industrial Applications and Challenges

The mini-symposium is devoted to Water Smart Systems topics. Besides current challenges and opportunities in the area, also core research fields will be treated such as hydraulic modeling, numerical methods for optimization and robustness analysis, digital transformation, forecasting approaches, and many other interesting aspects of water smart systems research and industrial practices. Topics of interest include, but are not limited to:

1. Control optimization and applications;
2. Digital twins;
3. Machine Learning applies to the water system's operation;
4. Forecasting algorithms;
5. Modeling, Numerical Analysis, and Simulation;
6. Innovative and improved digital tools or monitoring systems (sensors, etc.);

Organizers:

Ana Luísa Reis, Universidade de Aveiro, alreis@ua.pt

Marlene Brás, Universidade de Aveiro, marlenegomes@ua.pt

Ana Luís Sousa, Universidade de Aveiro, ana.luis@ua.pt

Tiago C. Pereira, Universidade de Aveiro, tiago.crispim@ua.pt