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Type: **Poster Presentation**

Surrogate models for aquifer management

Tuesday, 31 May 2022 15:20 (1h 10m)

Different artificial intelligence methods are evaluated for the construction of surrogate models of the flow of the Requena-Utiel and Cabrillas-Malacara aquifers, in Valencia, Spain. The objective is to provide a quick, open, and minimally accurate tool that allows managers to assess the impact of possible changes in the flows extracted from existing wells and the impact of rainfall on the decrease/rise of piezometric levels. The different surrogate models resulted in very similar and precise approximations in the ranges of inputs and outputs for which training data were generated. In addition, the speed and ease of use were also verified.

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Country

Spain

References

Time Block Preference

Time Block A (09:00-12:00 CET)

Participation

In person

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Session Classification: Poster

Track Classification: (MS15) Machine Learning and Big Data in Porous Media