

عنوان مقاله:

OPTIMIZATION TO IDENTIFY MUSKINGUM MODEL PARAMETERS USING IMPERIALIST COMPETITIVE ALGORITHM

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خلاصه مقاله:

In engineering, flood routing is an important technique necessary for the solution of a flood control problem and for the satisfactory operation of a flood-prediction service. A simple conceptual model like the Muskingum model is very effective for the flood routing process. One challenge in application of the Muskingum model is that its parameters cannot be measured physically. In this article we proposed imperialist competitive algorithm (ICA) for optimal parameter estimation of the linear Muskingum model. This algorithm uses imperialism and imperialistic competition process as a source of inspiration. Optimization to identify Muskingum model parameters can be considered as a suitable field to investigate the efficiency of this algorithm.

کلمات کلیدی:

Flood routing; muskingum model; optimization; imperialist competitive algorithm

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