

## عنوان مقاله:

Optimal Parameter Estimation of linear Muskingum Model based on the Modified Honey Bee Mating Optimization algorithm

## محل انتشار:

هشتمین کنگره ملی مهندسی عمران (سال: 1393)

تعداد صفحات اصل مقاله: 9

## نویسندگان:

Majid Niazkar - MSc. student of Civil Engineering

Seied Hosein Afzali - Assistant Professor of Civil Engineering

## خلاصه مقاله:

The linear Muskingum model is not only a simple conceptual but also effective method for flood routing. Since the Muskingum model parameters cannot be determined physically, the calibration of these parameters is the only challenge of this method. Although various techniques have been proposed to estimate the related parameters, an accurate method with faster convergence rate is still required to improve the computational precision for parameter estimation. In this study, the Modified Honey Bee Mating Optimization (MHBMO) is proposed for the estimation of the mentioned parameters. The utilized algorithm is applied for a case study from previous literature and the results are compared with the other proposed methods. The results indicate that not only the MHBMO algorithm converges so quickly but also it captures the best optimal parameters values

## کلمات کلیدی:

Linear Muskingum Model, Optimization, MHBMO, Flood Routing

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/295508>

