

### عنوان مقاله:

Tous Dam-Break flow simulation, using NAMROOD DamBreak coupled 1D-2D model

### محل انتشار:

نهمین سمینار بین المللی مهندسی رودخانه (سال: 1391)

تعداد صفحات اصل مقاله: 8

### نویسندگان:

Komail Rafiei Dastjerdi - *Alumnus, the University of Tehran, Tehran, Iran*

Masoud Montazeri Namin - *Associate professor, the University of Tehran, Tehran, Iran*

### خلاصه مقاله:

NAMROOD DamBreak coupled 1D-2D and 2D modelling approaches are, separately, implemented for simulation of Tous dam-break flood and the outcomes are juxtaposed. The Spanish dam's outflow hydrograph is used as upstream boundary condition and HLL as the preferred numerical method, assuming dry bed as initial condition. Both the models operate on basically the same unstructured triangular meshes. Results comparison demonstrates that the 1D-2D model predicts the water depth within the river stream far better than the 2D model, whereas for the flooded city, .Sumacárcel- which is laterally flooded- no meaningful difference between these two models is seen

### کلمات کلیدی:

coupled 1D-2D, shock capturing, urban flooding, dam break model

### لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/186636>

