

عنوان مقاله:

Main Basin-Scale of Modeling Sustainable Development from Standpoint of Water Resources and Demands Using System Dynamics Approach

محل انتشار:

اولین کنفرانس بین المللی و سومین کنفرانس ملی سد و نیروگاههای برق آبی (سال: 1390)

تعداد صفحات اصل مقاله: 10

نویسندگان:

Mohammad Azmi - *PhD Candidate of Water Resources Engineering University of Tehran, IRAN*

Parvaneh Kazemi - *PhD Candidate of Water Resources Engineering University of Tehran, IRAN*

Fahimeh Sarmadi - *Ms Student of Irrigation and Drainage Engineering International University of Qhazvin, IRAN*

خلاصه مقاله:

In current condition of world, due to population growing and increasing the food requirement and other facilities, development in many aspects are inevitable. Water as a food is used not only for food production but also as a driving force in other parts such as industry, agriculture, society and politic that improves development level. In this research, water is considered as a one of the parameters that affect on development in macro scale and causal mapping between water (as a development parameter) and municipal, industrial and agricultural development is modeled with system dynamics approach. For evaluating the several statuses, some scenarios are regarded. In these scenarios with respect to time horizon, available water, all environmental, drinking and municipal, industrial and agricultural demands are estimated. All the variables are simulated in VENSIM-DSS. Results show that using system dynamics approach in VENSIM-DSS software and developed model it should be able to make a decision support system in macro scale for decision makers

کلمات کلیدی:

sustainable development, system dynamics, VENSIM-DSS, Urmia

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/138516>

