Call for Papers

Special Collection on Upcoming Challenges in Watershed/Field Scale Modeling

Aims & Scope
Population growth, changing land use/cover, and climate variability/change issues pose serious threats to our environment requiring meticulous planning to preserve our existing resources or mitigation/restoration strategies to improve the conditions of degraded land and water resources. Environmental models operating from field to watershed scale are heavily relied upon to tackle these problems. A wide variety of simulation models have been developed over the past several decades to address many related challenging problems such as poor water quality, water scarcity, flooding, data processing/integration/assimilation, new LID (Low Impact Development) implementations, and decision making. In this special collection, manuscripts of research/engineering findings or decision support tools with innovative development/applications are encouraged for submission by using, but not limited to, commonly adopted watershed/field scale models such as SWAT/APEX/EPIC, HEC-HMS/HEC-RAS, MIKE SHE, SWMM, HSPF, AGNAPS/AnnAGNAPS, DRAINMOD, etc. In addition, we highly recommend submissions to consider how the described modeling efforts can be integrated with regulatory requirements and economic indices to further elaborate the scientific merits of rigorous modeling efforts.

Specific Topics
Topics of interest include but are not limited to:
- Improving watershed/field scale models
- Development of decision support tools
- Water resources allocation and operation of reservoir systems
- Investigation of potential environmental impact of agricultural activities
- Integration of machine learning techniques and processes-based models
- Climate change and the associated impacts on future anthropogenic activities
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Timeline Proposed
• Open call for papers: July 1, 2023
• Submission deadline: May 31, 2024

Submission Guidelines
1. Please submit your manuscript via the Journal of Hydrologic Engineering website: https://www.editorialmanager.com/jrnheeng
2. Once on the Editorial Manager website, please indicate that your paper is for the special collection “Special Collection on Upcoming Challenges in Watershed/Field Scale Modeling”
3. Detailed information on the submission process is provided in the document “Publishing in ASCE Journals: A Guide for Authors” available at https://doi.org/10.1061/9780784479018

Please note that all accepted papers submitted in response to this Call for Papers will be published in regular issues of the Journal of Hydrologic Engineering and assembled online on a page dedicated to this Special Collection. See https://ascelibrary.org/jhyeff/specialcollections for the list of Special Collections already published.