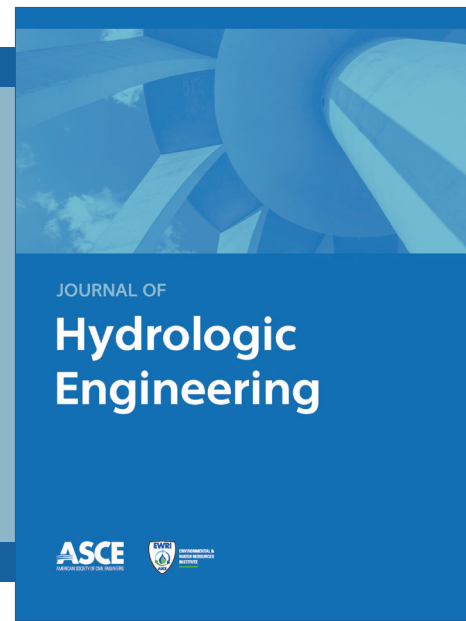


**Editors:**

Haw Yen, Bayer CropScience  
Latif Kalin, Auburn University  
Jeffrey G. Arnold, USDA-ARS,  
Ge Sun, USDA-Forest Service  
Daniel Gustavo Allasia Picilli, Federal University of Santa Maria

## 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:

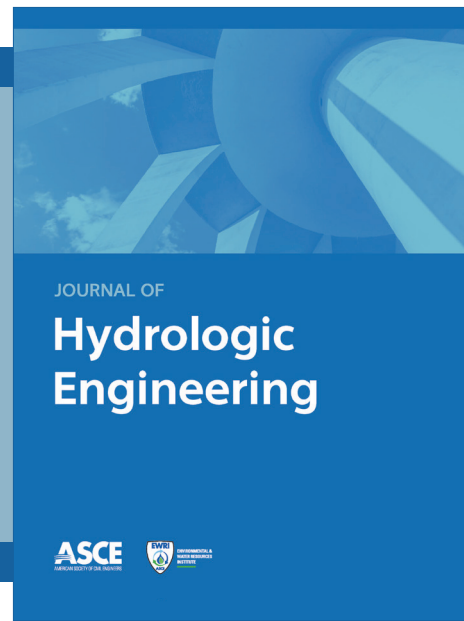
- Improving watershed/field scale models
- Development of decision support tools
- Water resources allocation and operation of reservoir systems
- Investigation of potential environmental impact of agricultural activities
- Integration of machine learning techniques and processes-based models
- Climate 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.