

Chief Editor:

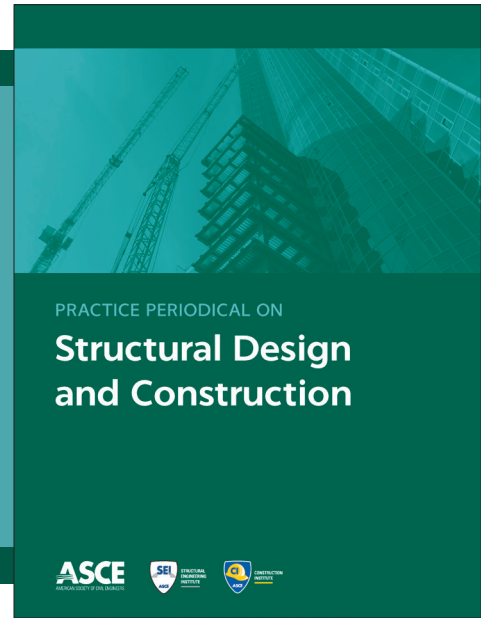
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Call for Papers

Special Collection on Unmanned Aerial Systems in Construction and the Built Environment: Innovative Concepts, Methods, and Practices



Aims & Scope

To accommodate the rapidly growing demand for highly efficient processes in the construction and operations of the built environment, there has been an increase – in recent years – in the number of new methods, systems, and applications of Unmanned Aerial Systems (UAS). This trend started to develop sharply as regulatory frameworks for Unmanned Aerial Vehicle (UAV) operations were put into place.

This special collection will support the community in successfully implementing UAS into their practices by revealing technical challenges and exemplifying scenarios, frameworks, and developments. The focus on construction and operations in the built environment is an opportunity to present research efforts to a broad audience of researchers and practitioners.

Topics

This special collection aims to collect from the research community a broad range of innovative contributions in construction and operations in the built environment, addressing all aspects of UAS technology with a wide breadth of topics, including but not limited to:

- UAS integration with construction processes from any project life cycle phase (from pre-construction, to site management, to inspection and maintenance);
- Remote data sensing, data processing, representation, visualizations, and analytics;
- Theory for human-UAV(s) interaction;
- Cyber- infrastructure utilizing UAS (e.g., that founded on building information modeling, big data, extended reality (XR), internet of things);
- Applications of UAS and machine learning integrations;

continued on reverse

Practice Periodical on Structural Design and Construction



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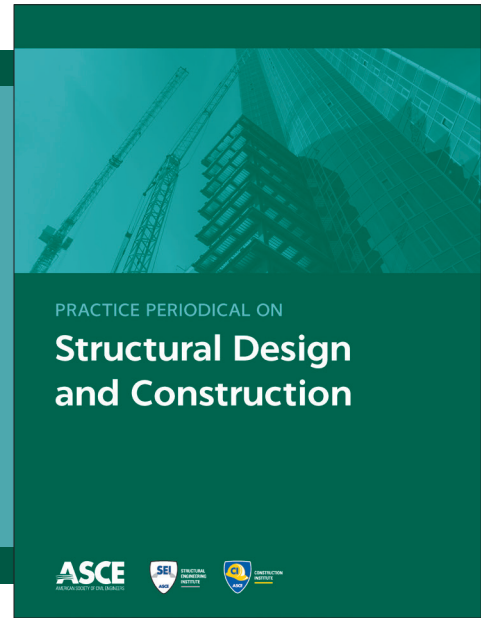
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- UAS and other robot interactions;
- Swarm robotics implementations; and
- UAS-focused education and training.

Submission Information

Submissions will be accepted on a rolling basis (no current deadline)

Submit manuscripts: <https://www.editorialmanager.com/jrnsceng>

Authors are encouraged to prepare their manuscripts in accordance with guidelines in "Publishing in ASCE Journals: A Guide for Authors" (<https://ascelibrary.org/r/publishingguide>).

Please note that all accepted papers submitted in response to this Call for Papers will be published in regular issues of the Practice Periodical on Structural Design and Construction and assembled online on a page dedicated to this Special Collection.