Active and Passive Smart Structures and Integrated Systems XVI (SSN03)

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In addition to the 250-word summary abstract, authors are welcome to submit an extended abstract (approximately 2 pages long, or 1,000 words) for review purposes.

Acceptance priority will be given to authors who submit a 2-page summary of their work. The file must be a PDF to upload during the abstract submission process. The extended abstract, used for selecting the papers by session organizers, can include figures, test results, and references. The short abstract will be included in the publication that is provided to the conference attendees.

This conference, largely resulting from merge of the former ‘Damping and Isolation’ and ‘Smart Structures and Integrated Systems’ conferences, as well as a part of ‘Modeling, Signal Processing, and Control’ focuses on topics related to design, analysis, fabrication, and testing of active/passive smart dynamic structural systems. Structural vibration, damping, and acoustic control of integrated systems can be enhanced through passive, active, and hybrid approaches. The conference emphasis is on the interplay of actuation, sensing, and processing capabilities to create active systems with new function capabilities. The goal is to create a multidisciplinary forum to bring together developments in diverse application areas in aeronautical, space, marine, transportation, civil applications, etc. The scope of the conference ranges from system level evaluation of smart structures to development, modeling, and optimization of new actuation and sensing techniques for integrated systems. Authors are encouraged to describe developments in active materials, ‘smart’ structural components, and integration of these and other constituent technologies into advanced systems that hold the potential for expanding the application of active and passive smart structures and integrated systems.

The primary topics for the conference are organized into the following eleven sessions:

- energy harvesting and scavenging
- metamaterials and metastructures
- biological-inspired systems and bio-MEMS
- passive and active vibration isolation systems
- magneto rheological systems
- SMA- and piezo-based materials and systems
- micro- and nano-integrated systems
- aircraft, MAV/UAV, and morphing systems
- smart sensing and signal processing for diagnostics and prognostics
- modeling, optimization, signal processing, control, and design of integrated systems
- acoustics and fluid-structure interaction.

Authors can select the session topic that best fits their work during the abstract submission process.

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CALL FOR PAPERS

6–10 March 2022
Long Beach, California, USA

Submit abstracts by 25 August 2021

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Present your research at SPIE Smart Structures + Nondestructive Evaluation

Below are abstract submission instructions, the accompanying submission agreement, conference presentation guidelines, and guidelines for publishing in the Proceedings of SPIE on the SPIE Digital Library. Submissions subject to chair approval.

Important dates

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<td>Abstract submission deadline</td>
<td>25 August 2021</td>
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<td>Author notification</td>
<td>29 October 2021</td>
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<td>Manuscript due date</td>
<td>9 February 2022</td>
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<td>Oral presentation videos due</td>
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<td>Oral presentation slide deadline</td>
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*Authors must register prior to uploading their manuscript.

What you will need to submit

- **Title**
- **Author(s) information**
- **250-word abstract for technical review**
- **100-word summary for the program**
- **Keywords used in search for your paper (optional)**
- **Check the individual conference Call for Papers for additional requirements (for example, some conferences require 2- to 3-page extended summary for technical review, or have instructions for award competitions)**

Note: Only original material should be submitted. Commercial papers, papers with no new research/development content, and papers with proprietary restrictions will not be accepted for presentation.

How to submit your abstract

- Visit the conference page: [www.spie.org/ssn03call](http://www.spie.org/ssn03call)
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- Click the “Submit An Abstract” button on the conference page.
- Sign in to your SPIE account or create an account if you do not already have one.
- Follow the steps in the submission wizard until the submission process is completed.

Submission agreement

All presenting authors, including keynote, invited, oral, and poster presenters, agree to the following conditions by submitting an abstract:

- Register and pay the author registration fee.
- Oral presenters: Submit a presentation video by the advertised due date, or agree to the presentation capture of your presentation on site, for online conference viewing during the event and publication in the Proceedings of SPIE on the SPIE Digital Library.
- Poster presenters: Submit a Poster PDF and optional preview video by the advertised due date, for online conference viewing during the event and event publication in the Proceedings of SPIE on the SPIE Digital Library.
- Submit a four-page-minimum manuscript by the advertised due date, for online conference viewing during the event and publication in the Proceedings of SPIE on the SPIE Digital Library.
- Obtain funding for registration fees, travel, and accommodations, independent of SPIE, through their sponsoring organizations.
- Ensure that all clearances, including government and company clearance, have been obtained to present and publish. If you are a DoD contractor in the USA, allow at least 60 days for clearance.
- Attend the meeting.
- Present at the scheduled time.

Review and program placement

- To ensure a high-quality conference, all submissions will be assessed by the conference chair/editor for technical merit and suitability of content.
- Conference chairs/editors reserve the right to reject for presentation any paper that does not meet content or presentation expectations.
- Final placement in an oral or poster session is subject to chair discretion.

Publication of Proceedings in the SPIE Digital Library

- SPIE will publish all presentations for viewing during the conference, as well as permanently archive all presentations in the conference proceedings on the SPIE Digital Library.
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