SPIE. SMART STRUCTURES+ NONDESTRUCTIVE EVALUATION

Active and Passive Smart Structures and Integrated Systems XIII

This conference has an open **call for papers:**

SUBMIT AN ABSTRACT
(SIGN IN REQUIRED)

Submission guidelines for Authors and Presenters

Important Dates
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Abstract Due:
22 August 2018

Author Notification:
29 October 2018

Manuscript Due Date:
6 February 2019

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Call for Papers

In addition to the 200-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 can be submitted as a Word.doc or postscript file 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 ten 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

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

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