In addition to the 250-word summary abstract, authors are welcome to submit an extended abstract (approximately 2 pages long but no more than 9 pages), for review purposes.

Acceptance priority will be given to authors who submit a supplemental file 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.

A vision for versatile and autonomous material and structural platforms motivates the research community to advance the materials science, mechanical synthesis, and multiphysics understanding of innovative multifunctional materials.

This conference will bring together researchers across disciplines to share about technical efforts aimed to design, fabricate, manufacture, and characterize novel materials and structural systems that exhibit the core functions of autonomy in engineered matter. These functions include sensory mechanisms, actuation capabilities, adaptive mechanical-material frames, decision-making functionality, and energy capture and conversion processes.

All together, this conference will foster interdisciplinary discussions on recent innovations that scrutinize the behavior and mechanics of multifunctional materials.

Topics of interest may include but are not limited to the design, modeling, and experimental evaluation of:

- sensing and actuation materials
- self-regulating and energy transduction materials
- adaptive, programmable, and cognitive materials and structures
- hybrid matter bridging engineering and biology
- manufacturing and mechanics of multifunctional materials

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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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<th>Description</th>
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<tr>
<td>Abstract submission deadline</td>
<td>25 August 2021</td>
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<tr>
<td>Author notification</td>
<td>29 October 2021</td>
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<tr>
<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>Poster PDF and preview videos due</td>
<td>9 February 2022</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.

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- Register and pay the author registration fee.
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- 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.
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