

Health Monitoring of Structural and Biological Systems XIII

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

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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

The scope of the 2019 conference includes emerging and futuristic methods of Structural Health Monitoring: inspection, data transfer, signal processing, diagnosis and prognosis of engineering and biological materials and structures.

In the year 2001 this conference, for the first time, brought together engineers, medical practitioners, and scientists to exchange ideas on health monitoring of both engineered and biological structures. The positive experience of 2001 was reinforced in 2002 through 2018 where more participants from the biomedical engineering and NDE community attended the conference. In 2019 the topics that will be covered by this conference will be expanded building on the success of the previous years.

Papers are invited on topics including, but not limited to, the following:

Engineering area:

- aging, new, and future aircraft structures
- aircraft and aerospace hardware
- civil infrastructure (bridge, buildings, roads, pipelines etc.)
- microelectric and electronic components and infrastructure

- applications of MEMS and other integrated or embedded multifunctional sensors
- applications to energy industry (nuclear, conventional, and green technology such as windmill, solar)
- robotics, automation, and smart structures (e.g., crawlers, wireless, multimedia, internet)
- real time sensing and testing at extreme environments (temperatures, pressure and vacuum, radiation hazards, toxic and hazardous conditions, etc.)
- emerging and futuristic techniques and issues (NEMS, energy harvesting, additive manufacturing etc.)
- elastic and acoustic metamaterials

Biodiagnostic area:

- biomaterials and biostructures (e.g., implants, cells, bones, tissues, etc.)
 - biologically inspired technologies
 - medical NDE methods (MRI, CAT scan, ultrasonography, radiography and others)
 - biomedical smart structures and devices (e.g. smart materials, structures, micro/nanofabrication and applications in biomedical monitoring and diagnosis)
 - NEMS/MEMS and emerging/futuristic techniques
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