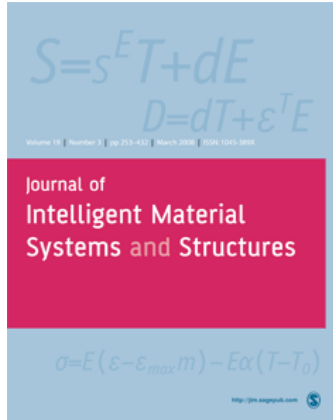# DEADLINE EXTENDED!!!

Journal of Intelligent Material Systems and Structures

Special Issue from the 2010 SMASIS Symposium on Structural Health Monitoring and Nondestructive Evaluation

Guest Editors:
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Editor: Norman M. Wereley

We are pleased to announce that submissions are open for the Special Issue of the Journal of Intelligent Material Systems and Structures for papers presented at the 2010 SMASIS Symposium on Structural Health Monitoring/NDE, held September 29 – October 1, in Philadelphia, PA, USA.

Description - Potential applications of structural health monitoring (SHM) systems and benefits of this emerging technology are well documented. For complex structural and material systems, the ability to diagnose and predict structural failures through embedded sensing, actuation and data management can reduce operating costs while increasing safety. The key commercialization drivers for the technology are life cycle cost, avoidance of catastrophic failure and inspection of hard to reach places. As of now, aerospace, ground and sea vehicles are driving the development of the technology. Alternatively, continuous or on-demand inspection of bridges, buildings, off-shore structures and oil drilling machinery are likely to be among the first non-aerospace applications. Substantial research and development SHM has been reported in aeronautical, automotive, and civil engineering. Even so the technology still needs further maturation for widespread use. Many system level hurdles remain and will be addressed in this symposium. The specific focus will be on algorithms, sensor networks, data management and experimental demonstrations of structural health monitoring or non-destructive evaluation of structural systems. Papers demonstrating industrial applications and implementations are also of interest. This special issue will explore current state-of-the art technologies for aerospace, mechanical and civil applications that enable operation based inspection and repair.

Papers should be submitted through the JIMSS online submission system on Manuscript Central: http://mc.manuscriptcentral.com/jimss. For Manuscript Type choose 'SI – 2010SMASIS – SHM". Please provide the names and email addresses of at least three potential reviewers. All papers will be reviewed based on the standard guidelines for JIMSS papers. Please submit papers as soon as possible, so that the review process can start immediately.

Dates
Submission of papers for review: open now
Final date for submission: 15 January 2011
Planned date of SI: June 2011

If you have any questions, please feel free to contact Andrei Zagrai (azagrai@nmt.edu) or Norman M. Wereley (Wereley@umd.edu).