Special Issue

Structural Health Monitoring for Aerospace Applications 2017

Message from the Guest Editors

Structural Health Monitoring (SHM) is an emerging topic of great interest. SHM hold the promise of improving aerospace safety and reliability while reducing life-cycle operational and maintenance costs. SHM topics span sensing, structural interrogation, data interpretation, structural diagnosis and prognosis. Theoretical predictive studies, and experimental validation and verification are very important. Efficient design of reliable SHM systems is necessary for obtaining high-confidence estimations with minimal false-positive and false-negative results. Transitioning of SHM concepts to real world applications and the development of turn-key SHM systems will help to develop the business case for SHM through realistic cost-benefit analysis and first-hand user experience.

Guest Editors

Prof. Dr. Victor Giurgiutiu

Department of Mechanical Engineering, University of South Carolina, Columbia, SC 29208, USA

Prof. Dr. Shenfang Yuan

Research Center of Structural Health Monitoring and Prognosis, State Key Lab of Mechanics and Control of Mechanical Structures, Nanjing University of Aeronautics and Astronautics, 29 YuDao Street, Nanjing, China

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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