Front Matter: Volume 7295
Health Monitoring of Structural and Biological Systems 2009

Tribikram Kundu
Editor

9–12 March 2009
San Diego, California, United States

Sponsored by
SPIE

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American Society of Mechanical Engineers (United States)

Cooperating Organizations
Intelligent Materials Forum (Japan)
Jet Propulsion Laboratory (United States)
National Science Foundation (United States)

Published by
SPIE

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16 Signal Processing and Damage Detection for SHM
Perngjin F. Pai, University of Missouri, Columbia (United States)
Sourav Banerjee, The University of Arizona (United States) and Acellent Technologies Inc. (United States)

17 Emerging and Futuristic Techniques and Issues
Olivier Giraudo, ONERA (France)
Wolfgang Grill, Universität Leipzig (Germany)

18 Modeling and Simulation for SHM II
George Zentai, Varian Medical Systems, Inc. (United States)

19 SHM for Civil and Infrastructure Engineering
Won-Bae Na, Pukyong National University (Korea, Republic of)
Olivier Giraudo, ONERA (France)

20 Design of Smart Structures and Related Issues
Andrei N. Zagrai, New Mexico Institute of Mining and Technology (United States)
Perngjin F. Pai, University of Missouri, Columbia (United States)
21 SHM of Composite Materials
Sridhar Krishnaswamy, Northwestern University (United States)
Andrei N. Zagrai, New Mexico Institute of Mining and Technology (United States)

22 SHM of Bridge Structures
Jerome P. Lynch, University of Michigan (United States)
Won-Bae Na, Pukyong National University (Korea, Republic of)
Introduction


The emphasis of this conference is to recognize that nondestructive evaluation is an integral part of health monitoring for both structural and biological systems. I believe that biological and physical science communities are learning from each other by coming to this conference and exchanging ideas. Some of the recent advances in the science and technology of health monitoring techniques that go beyond the traditional nondestructive imaging of internal defects are presented in these proceedings. New diagnosis, prognosis and rehabilitation techniques applied to engineering structures made of metal, concrete, and composites, as well as biological systems are presented. The papers published here cover a wide range of technologies. It is hoped that this conference will stimulate further interactions between physical and life science communities resulting in newer development of more innovative techniques for health monitoring applications.

I am thankful to the conference co-chair, program committee members, authors, session chairs, and SPIE staff for putting together this excellent conference.

Tribikram Kundu