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<td>Zhongqing Su, The Hong Kong Polytechnic University (Hong Kong, China)</td>
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<td>10B</td>
<td>Modeling for Metamaterial and Guided Waves</td>
<td>Wieslaw M. Ostachowicz, The Szewalski Institute of Fluid-Flow Machinery (Poland)</td>
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<td>Lingyu Yu, University of South Carolina (United States)</td>
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<td>11A</td>
<td>Acoustic Emission</td>
<td>Victor Giurgiutiu, University of South Carolina (United States)</td>
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<td>Sridhar Krishnaswamy, Northwestern University (United States)</td>
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<td>Guided Waves III: Advanced Material Monitoring</td>
<td>Xinlin Qing, Xiamen University (China)</td>
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<td>Pawel Malinowski, Institute of Fluid-Flow Machinery (Poland)</td>
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<td>Civil Infrastructure I: Measurement Optimization and</td>
<td>Henrique L. Reis, University of Illinois at Urbana-Champaign (United States)</td>
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<td>Application</td>
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<td>12B</td>
<td>Optical and Thermal Techniques for Civil Infrastructure Monitoring</td>
<td>Christopher Niezrecki, University of Massachusetts Lowell (United States)</td>
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<td>Zhu Mao, University of Massachusetts Lowell (United States)</td>
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13A  Civil Infrastructure II: Materials and Structures
Paul Fromme, University College London (United Kingdom)
Henrique L. Reis, University of Illinois at Urbana-Champaign (United States)

13B  Emerging and Futuristic Techniques and Issues
Wieslaw M. Ostachowicz, The Szewalski Institute of Fluid-Flow Machinery (Poland)
Anthony J. Croxford, University of Bristol (United Kingdom)
Introduction


The emphasis of this conference is to recognize that nondestructive sensing, sensor array design, signal acquisition and transmission, signal processing, energy harvesting etc. are integral parts of health monitoring for both structural and biological systems. I believe that biological and physical science communities are learning from one another 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 testing for internal flaw detection 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 program committee members, authors, session chairs, and the SPIE staff for putting together this excellent conference.

Tribikram Kundu