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Tribikram Kundu
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Introduction

In the year 2001, the SPIE conference 4335 on Health Monitoring of Structural and Biological Systems brought together engineers, materials scientists, medical doctors, and biologists to exchange their ideas on this important issue. After the success of that conference, the yearly conferences—4702 in 2002, 5047 in 2003, 5394 in 2004, 5768 in 2005, 6177 in 2006, 6532 in 2007, and 6935 in 2008—followed, and the next one is being planned for the year 2009. Proceedings of SPIE volume 6535 contains papers presented at the 2008 conference.

The emphasis of this conference is to recognize that nondestructive evaluation is an integral part of health monitoring of both structural and biological systems. It is my hope that the 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 the physical and life science communities, resulting in additional development of innovative techniques for health monitoring applications.

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

Tribikram Kundu