

PROCEEDINGS OF SPIE

# ***Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2013***

**Jerome Peter Lynch  
Chung-Bang Yun  
Kon-Well Wang**  
*Editors*

**10–14 March 2013  
San Diego, California, United States**

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National Science Foundation (United States)

*Published by*  
SPIE

**Volume 8692**

Proceedings of SPIE 0277-786X, V. 8692

SPIE is an international society advancing an interdisciplinary approach to the science and application of light.

Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2013,  
edited by Jerome Peter Lynch, Chung-Bang Yun, Kon-Well Wang, Proc. of SPIE Vol. 8692,  
869201 · © 2013 SPIE · CCC code: 0277-786X/13/\$18 · doi: 10.1117/12.2025023

Proc. of SPIE Vol. 8692 869201-1

The papers included in this volume were part of the technical conference cited on the cover and title page. Papers were selected and subject to review by the editors and conference program committee. Some conference presentations may not be available for publication. The papers published in these proceedings reflect the work and thoughts of the authors and are published herein as submitted. The publisher is not responsible for the validity of the information or for any outcomes resulting from reliance thereon.

Please use the following format to cite material from this book:

Author(s), "Title of Paper," in *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2013*, edited by Jerome Peter Lynch, Chung-Bang Yun, Kon-Well Wang, Proceedings of SPIE Vol. 8692 (SPIE, Bellingham, WA, 2013) Article CID Number.

ISSN: 0277-786X

ISBN: 9780819494757

Published by

**SPIE**

P.O. Box 10, Bellingham, Washington 98227-0010 USA

Telephone +1 360 676 3290 (Pacific Time) · Fax +1 360 647 1445

SPIE.org

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## Introduction

This volume is a collection of technical papers presented at the 2013 SPIE Conference held in San Diego, California, on Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems. This conference is unique in the emerging area of sensors and smart structures technologies because of its multidisciplinary representations from the aerospace, civil, and mechanical engineering communities. As you find in the roster of the program committee, members of the program committee represented almost all the sub-disciplines of the engineering field. In addition to its multidisciplinary leadership, the conference attracted participants from over 20 different countries. The participation of the Asian-Pacific Network of Centers for Research in Smart Structure Technology (ANCRiSST) as a conference co-sponsor further strengthened the international identity of the conference.

The conference showed growth over the past few years; this year, over 184 papers were submitted and presented to the conference. The conference started with a keynote session with two excellent keynote presentations: "Sensing platforms for structural health monitoring" by Professor Sridhar Krishnaswamy, Northwestern University, and "Structural health monitoring of large-scale structures: from diagnostics to prognostics" by Professor YQ Ni, Hong Kong Polytechnic University. The opening plenary session was followed by 26 topical sessions and one poster session. The papers in these sessions covered a wide range of topics in: fiber optics and other novel sensors, structural health monitoring, signal processing, damage detection and assessment, wireless technologies, modeling and analysis of smart systems and applications to civil, mechanical, and aerospace systems.

In light of the increased number of submissions to this conference in recent years, we are optimistic that the conference has a bright future ahead. We would like to thank all of the authors and presenters of this year's conference for their contributions. The outstanding conference program was put together by the fine efforts of the program committee, and we are thankful to the members of the program committee for their unyielding commitment to making the conference a great success. Prof. Masayoshi Tomizuka, University of California Berkeley, who previously served as chair and co-chair of the conference decided to step-down from a leadership position after the 2012 conference. On behalf of the entire conference, we would like to thank Prof. Tomizuka for his unyielding commitment to the conference which resulted in its significant growth over the past 10 years. His bold, visionary leadership will be sorely missed.

**Jerome Peter Lynch  
Chung-Bang Yun  
Kon-Well Wang**