

Seminar Talk

Structural Health Monitoring (SHM) and Nondestructive Evaluation (NDE) • Research in the Laboratory for Active Materials and Smart Structures (LAMSS)

Prof. Victor Giurgiutiu

Mechanical Engineering, University of South Carolina, Columbia, USA

Monday, July 11th, 2016, 14:00

Johannes Kepler University Linz, Science Park 3, Lecture Hall HS19



CDL Christian Doppler Laboratory for Structural Strength Control of
Lightweight Constructions



Seminar Talk

Monday, July 11th, 2016, 14:00, Johannes Kepler University Linz, Science Park Building 3, Lecture Hall HS 19 ("Intel Mobile Communications")

Structural Health Monitoring (SHM) and Nondestructive Evaluation (NDE) Research in the Laboratory for Active Materials and Smart Structures (LAMSS)

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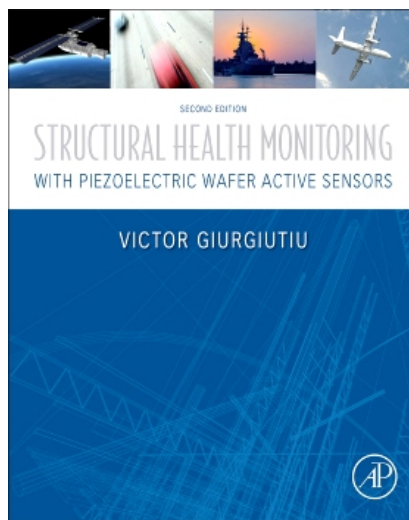
Abstract

The presentation will address the structural health monitoring (SHM) and nondestructive evaluation (NDE) research performed in the laboratory for active materials and smart structures (LAMSS) of the University of South Carolina, USA. The presentation covers (a) the research team; (b) main research facilities and equipment; (c) principal fundamental research thrusts; major research projects. The presentation will end with conclusions and suggestions for future work.

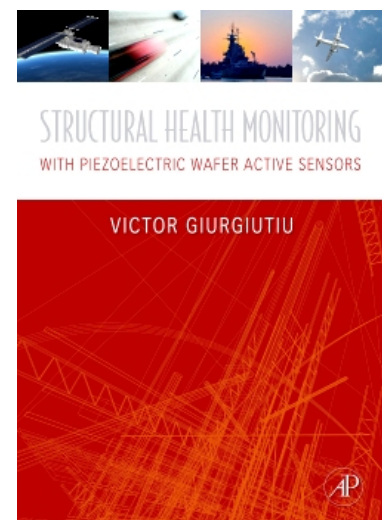
Bibliography



2015



2014 (2nd Edition)



2008 (1st Edition)



Dr. Victor Giurgiutiu received his BSc(Eng) in Aeronautics and his PhD in Aeronautical Structures from Imperial College, London, UK in 1972 and 1977, respectively. He has a wide research interest in structural mechanics that spans active materials, smart structures, structural health monitoring, mechatronics, and other multi-physics applications. Dr. Giurgiutiu is Professor of Mechanical Engineering and Director of the Laboratory for Active Materials and Smart Structures (LAMSS) at the University of South Carolina. He has published 7 books, 16 book chapters, 102 archival journal articles, and many conference papers. He is widely cited worldwide with h-index=39. His book on Structural Health Monitoring with Piezoelectric Wafer Active Sensors (Elsevier Academic Press, now at the 2nd Ed.) has been cited ~750 times, and two of his seminal papers have received ~500 and ~400 citations, respectively. He was elected Fellow of the Royal Aeronautical Society (RAeS), Fellow of ASME, and Associate Fellow of AIAA. Dr. Giurgiutiu serves as Special Issues Editor to the Structural Health Monitoring – An International Journal (Sage, UK). He is Associate Editor to the Aeronautical Journal of RAeS and Associate Editor to the International Journal of Sustainable Materials and Structural Systems (Inderscience Pub., Switzerland). He was recognized with Structural Health Monitoring Person of the Year Award 2003 and as Nondestructive Evaluation Lifetime Achievement Award 2016. He has recently completed his duty as co-chair of the SPIE Symposium on Smart Structures and NDE which comprises 10 parallel conferences and has an international participation of over 800 attendees. During 2006-2009 he served as Structural Mechanics Program Manager with the Air Force Office of Scientific Research (AFOSR).