

The 8th International Workshop on Structural Health Monitoring - 2011



Dates: September 13-15, 2011, Location: Stanford University, Stanford, CA-94305, USA

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Preliminary Programs

Applications

- Aircraft and Rotorcraft
- Space transportation and vehicles
- Land/Marine/Offshore structures
- Critical facilities: power plants, wind power plants etc.
- Ground vehicle and personal armor
- Civil, pipelines and energy storage infrastructures
- Launch systems and munitions monitoring
- Marine structures and fast boats
- Health management/CBM+

Technical Focus

- SHM-based Design
- Quantification
- Validation/Verification/Certification
- Sensors and Actuators development
- Sensing network
- Diagnostics and signal processing techniques
- Prognostics and Data mining
- Wired and wireless communication for sensor network
- Energy harvesting and generation
- Autonomous system
- Multifunctional materials
- Modeling/Simulation

Special Sessions

- SHM benchmark for high-rise structures; Chair: YQ Ni (HKPU)
- Hot spot monitoring; Chairs: H Sohn (KAIST), JB Ihn (Boeing), M Leonard (AFRL)
- Non-contact sensing technologies; Chair: H Sohn (KAIST)
- Decision making in structural health monitoring; Chair: D. Zonta (Univ. Toronto), M. Todd (UCSD)
- Verification and validation of damage sensing; Chair: Enrique Medina (AFRL)
- Wind turbines monitoring; Chair: W Staszewski (Sheffield Univ.)
- Wave propagation simulation; Chairs: W Staszewski (Sheffield Univ.), W Ostachowicz (PAS)
- Coupling SHM and NDT for life prediction; Chair: Udo Peil (TU Braunschweig)
- Monitoring of civil engineering structures with MEMS; Chairs: C Grosse (TU Munich), J Lynch (UM)
- Intelligent wireless sensor networks for SHM; Chairs: J Lynch (UM), A Swart (MTU)
- Bio-inspired sensing and actuation technology; Session Chairs: J Lynch (UM), K Loh (UC Davis)
- Advanced sensor network for state awareness of naval assets; Chair: Liming Salvino (US Navy)
- SHM and fatigue assessment of ship structures; Chair: Liming Salvino (US Navy)
- Operational and structural health management of wind turbines; Chair: Jonathan R. White (Sandia Lab)