



**Structural Health Monitoring and Integrity Management: Proceedings of the 2nd International Conference of Structural Health Monitoring and Integrity ... 2014), Nanjing, China, 24-26 September 2014**

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*Structural Health Monitoring and Integrity Management* is a collection of the papers presented at the 2<sup>nd</sup> International Conference of Structural Health Monitoring and Integrity Management (ICSHMIM2014, Nanjing, China, 24-26 September 2014), and addresses the most recent developments in the field of Structural Health Monitoring (SHM) and integrity management from around the world.

It is also generally acknowledged that a clear advantage of SHM-technology over traditional NDT methods is the closer interaction and automation of sensing, diagnostics, prognostics and condition-based maintenance that SHM enables. As SHM is a system-level approach which integrates sensors/actuators networks with structures, software to interpret sensor signals, and hardware to process and manage the signals, its maturity based on the complexity and targeted solutions can be classified into four different sequential levels: detection, identification, quantification, and decision. Detection is the lowest maturity level that the technology can achieve. Once detection is confirmed with a high degree of confidence, identification of the occurrence of the event in time and space domain is critical, which then can potentially lead to the quantification of the event. A more accurate quantification may lead to a better decision, which provides a much more efficient management solution for the structures than traditional inspection techniques, leading to a system platform for autonomous or intelligent structures.

Structural Health Monitoring and Integrity Management will be invaluable to academics and professionals interested in applications encompassing traditional aerospace structures and civil infrastructures, in special equipment and marine/offshore structures, as well as in a variety of other structures and platforms.

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