

Special Issue

Smart Sensors in Structural Health Monitoring

Message from the Guest Editors

The field of structural health monitoring (SHM) has become of great importance to investigate and maintain ocean structures (e.g., off-shore platforms, undersea tunnels, and submerged floating tunnels) as well as land structures (e.g., buildings and bridges). Sensors are crucial elements for providing reliable information on the health condition and performance of the structures as the ‘ears’ and ‘eyes’ of SHM. In particular, through sensors combined with sensor networks in underwater and terrestrial environments, the continuous monitoring of the structures has been performed, ensuring their safety. Moreover, by means of Internet of Things (IoT) technology, sensors and processors applied with the structures can communicate with each other, collaborating with unmanned underwater vehicles (UUVs) and unmanned aerial vehicles (UAVs), which lead to imagine them being ‘smart’. As a result, in order to assist the decision-making process regarding health monitoring, SHM with smart sensors will be increasingly used in real-life settings. Prof. Dr. Hoon Sohn

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