

# Structural Health Monitoring Method Regarding a Multi-Sensor

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**Abstract:** *Structural Health Monitoring (SHM) involves the continuous monitoring of a structure's condition during operation using integrated sensor systems. SHM holds great promise for enhancing structural safety while simultaneously reducing deadweight and downtime. Various SHM methods have been developed to detect and evaluate different types of damage across a wide range of structures. Recently, the concept of Information Fusion combining data from multiple SHM methods has gained traction for improving damage assessment accuracy and reliability.*

**Keywords:** Multi-modal sensor, Sensor fusion, Hybrid material, Metallic element, EMI method, Ultrasonic wave, EIT, Carbon nanofiber, Stress-strain monitoring

