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## Acoustic Emission Sensors for Structural Health Monitoring

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### Message from the Guest Editor

Dear Colleagues,

In routine inspection, secondary Acoustic emission (AE) activity induced by existing defects when applying dynamic load in service is utilized to visualize the momentary condition of internal damage of the structure. Moreover, in continuous monitoring, primary AE activity generated due to crack occurrence can indicate the approach of impending failure. The above facts have been well known to AE engineers and researchers for some time; however, it has been difficult to realize the official practical inspection. The rapid development of relevant IoT technologies to AE measurements solves these issues (e.g., fast signal acquisition and transmission, edge computing, wireless/UAV technologies, energy harvesting, big data analysis, etc.). In this Special Issue, we welcome the contribution of state-of-the-art AE applications and relevant technologies to AE sensors for structural health monitoring, exhibiting potential applications of the AE technology to promote the mutual exchange of successful findings among a variety of fields' engineers and researchers.

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Prof. Dr. Tomoki Shiotani

*Guest Editor*



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# Special Issue



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