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Smart Textiles for in Situ Structural Health Monitoring of Composites

Guest Editor:

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closed (31 May 2019)

Message from the Guest Editor

The main objectives regarding the development of a new generation of composite structures are twofold. The first objective targets the development of monitoring devices and systems able to follow and optimize composites' manufacturing processes. The second objective aims to introduce a sensing mechanism in composites to measure *in-situ* local damages and deformations in real time. In the context of textile materials, these sensors should be compatible with the reinforcement and its manufacturing process.

We invite authors to contribute original research or reviews to this Special Issue. Potential topics include, but are not restricted to, the following:

- The development of sensors based on smart textile materials adapted to structural health monitoring in real time in situ of composite structures;
- SHM of composites, methods, procedures, and structures;
- Data treatment and analysis of information generated by embedded sensors;
- Monitoring of processes related to composite manufacturing, weaving, braiding, thermo forming, and infusion, etc.

Keywords: Smart and multifunctional textiles; Composites; Sensors; Monitoring; Optimization; Diagnostic











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Message from the Editor-in-Chief

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