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Application of Shape Memory Alloys

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Shape memory alloys (SMA) are smart materials that can change shape by an external stimulus, whether mechanical, magnetic, thermal or electrical. They are well known for being biocompatible, used to design miniaturised actuators with high force to weight ratio, as well as for sensors applications. However, as actuators, low energy efficiency, hysteresis, complex control, structural fatigue, and over-heat are major concerns. Wide is the range of applications, varying from medical devices, consumer electronics, automotive, avionics, and many others. This Special Issue aims to present original contributions as well as review articles on SMA applications. This includes but is not limited to the design of novel actuators, sensors, robotic systems, and medical devices.

Dr. Luigi Manfredi Guest Editor











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