



## Design and Control of Compliant Manipulators: Volume II

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Deadline for manuscript  
submissions:

**closed (15 December 2022)**

### Message from the Guest Editor

Dear Colleagues,

As popular robotic devices, compliant manipulators are based on compliant mechanisms that deliver displacement/force by elastic deformation of the materials. Targeting at different tasks, compliant manipulators can be driven by various actuators, such as smart material actuators (e.g., piezoelectric actuators, shape memory alloys, magnetostrictive actuators, ionic polymers, dielectric elastomers), electromagnetic actuators, fluidic/pneumatic actuators, electrothermal actuators, etc. Compliant manipulators have been applied extensively in different scenarios ranging from macro-, to micro-, to nano-scale. Example applications include micro/nano-manipulation, assembly automation, medical instruments, rehabilitation robots, biomedical engineering, and more. These applications are enabled by the design and implementation of sophisticated control strategies, involving motion control, force control, visual servo control, intelligent control, etc. The main focus of this Special Issue is on new design, control and applications of compliant manipulators dedicated to diverse science and engineering fields.

Prof. Dr. Qingsong Xu  
Guest Editor

