



Micro-Tweezers, Integrated Sensors and Micro-Manipulations Techniques

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Message from the Guest Editor

Dear Colleagues,

Micro-tweezers are essential end-effectors used for different applications regarding the manipulation of delicate micro-objects. A compact structure with an integrated actuator and sensor is preferred in order to obtain a real-time response from the gripping force. The various manipulation actions include the handling, pick-and-place, gripping and positioning operations which are appropriate in diverse domains, such as micro-robotics, micro-assembly, biology and medicine.

In this Special Issue, we invite research papers and reviews that focus on tethered or untethered micro-tweezers for the manipulation, fabrication, or characterization of micro/nano-sized objects. Topics of particular interest include, but are not limited to:

- micro-grippers
- micro-tweezers
- design, modelling and simulation of tweezers
- fabrication of tweezers
- characterization of tweezers
- position and force sensing at small scales
- sensors for micromanipulation
- integrated sensors
- microrobotics
- micro and nano manipulation





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Message from the Editor-in-Chief

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