Special Issue

Micro-Tweezers, Integrated Sensors and Micro-Manipulations Techniques

Message from the Guest Editor

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

Guest Editor

Dr. Rodica Voicu

Modeling, Simulation and CAD Laboratory, National Institute for Research and Development in Microtechnologies–IMT Bucharest, 126A Erou Iancu Nicolae Street, 077190 Bucharest, Romania

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Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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