

EDITORIAL

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Editorial for the special issue on micro-/nanorobotics

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Editorial

Micro-/nanorobotics is an interdisciplinary field between micro-/nanotechnology and robotics. In principle, a robotic agent with a dimension in the range between 1 μm to 1,000 μm and 1 nm to 1 μm can be considered as a microrobot and a nanorobot, respectively, and hence, the scaling law plays an important role for these miniaturized devices. Micro-/nanorobotics is the field to design and manufacture minute objects, to understand the properties and performance of robots at small scales, as well as to implement those tools/systems for various applications, including biology, biomedicine, and environments, with intelligence and autonomy. Therefore, the synergy of researchers with different backgrounds, such as physics, chemistry, robotics, materials science, micro-/nanotechnology, and computer science, is required for the advancement of this emerging field.

Herein, it is our great pleasure to present this special issue, entitled 'Micro-/Nanorobotics,' for *Robotics and Biomimetics*, which includes some latest progress of this emerging but fast-growing field. Moreover, it is expected that this special issue could stimulate the future R&D of micro-/nanorobotics. The research articles and reviews in this special issue include topics ranging from remotely actuated micromachines and microrobots to micro-/nanorobotic manipulation tools and systems.

Last but not the least, we would like to take this opportunity to thank all the authors for their hard work on this special issue, the strong support from Prof. Yunhui Liu, the editor-in-chief of *Robotics and Biomimetics*, as well as the assistance and advice from the publisher - Springer.

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Received: 22 December 2014 Accepted: 22 December 2014

Published online: 07 March 2015

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