

# Submissions Welcome for an Upcoming Special Issue on Light-based Actuators and Micromanipulation...

## INTERNATIONAL JOURNAL OF OPTOMECHATRONICS

### Guest Editors:

**Yves Bellouard**  
Eindhoven University  
of Technology  
Email: y.bellouard@tue.nl

**Yukitoshi Otani**  
Tokyo University of  
Agriculture and Technology  
Email: otani@cc.tuat.ac.jp

**Jeff Squier**  
Colorado School of Mines  
Email: jsquier@mines.edu

There is a growing interest for wireless actuation and manipulation of micro-/nano- scale objects. Applications are numerous, essentially driven by the biotechnologies and the needs for tools to manipulate cells or more complex organisms, novel applications are now emerging for sorting beads, stirring components, or guiding self-assembly processes.

Thanks to pioneering work in laser-trapping, advanced beam shaping as well as the discovery of light-triggered actuators, the use of light is emerging as an efficient, fast, versatile and yet, robust approach for wireless actuations and manipulation.

This special issue serves as a platform to exchange research experiences and results and to share novel ideas on light-based actuation and micromanipulation.

Topics of particular interest are:

- Novel light-based actuations principles or mechanisms;
- Methods and ideas to port laser trapping techniques to larger scale objects, to non-organic material or arbitrary shapes;
- Modeling of light-based small components interactions;
- Light-based sorting and stirring principles;
- Advance beam steering and beam shaping techniques for laser trapping;
- Control issues and integration technologies relevant for light-based manipulation.

Other related contributed papers are also welcome.

### Submissions Procedure

**Call for Papers  
Deadline  
June 1, 2009!**

Authors must submit manuscripts electronically in PDF format via  
<http://mc.manuscriptcentral.com/uopt>

In addition, authors must indicate in their comments that the manuscript is submitted for publication in the  
**Special Issue on Light-based Actuators and Micromanipulation.**

**Notification for Acceptance: August 2009**

**Publication date: December 2009 (Volume 3, Issue 4)**

For further information on the **International Journal of Optomechatronics** and to access a FREE online sample copy, visit: [www.tandf.co.uk/15599612](http://www.tandf.co.uk/15599612)

Vol. 3, 2009, Quarterly  
ISSN Print: 1559-9612  
ISSN Online: 1559-9620



**Taylor & Francis**  
Taylor & Francis Group