

# PROCEEDINGS OF SPIE

## ***LAT 2010: International Conference on Lasers, Applications, and Technologies***

**Vladislav Panchenko**  
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*Editors*

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## **Introduction**

*Conference on Laser-Assisted Micro- and Nanotechnologies*

This portion of the LAT 2010 conference proceedings presents selected papers which cover various topics of fundamentals and applications of laser-materials interaction: laser assisted synthesis of micro- and nanoparticles; high precision surface modification, structuring, shaping and roughness control; laser thin film deposition and processing; surface micro- and nanostructuring; laser stimulated surface thermo- and photochemical phenomena; modification of bulk transparent materials; treatment of materials with ultrashort laser pulses; in-situ laser processing diagnostics and control; mechanisms of laser ablation and pulsed laser deposition; mechanisms and applications of near-field optics.

**Oleg Louchev  
Nadejda Bulgakova  
Vladislav Panchenko**

