



ICOMM -2011
March 7 – 10, 2011
Tokyo, Japan

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The 6 International Conference on MicroManufacturing
ICOMM/2011

focuses on the processes, equipment, and systems for fabricating
miniature parts with micro-scale features

<http://icomm.northwestern.edu/>

Many fields, including medical, aerospace, military/defense, optics, automotive, consumer products, and communications, have been increasingly demanding miniature devices and components with complex micro-scale features made from a wide selection of materials. Some current applications of miniature parts - with dimensions ranging from a few micrometers to tens of millimeters - include miniature motors and turbines, micro-satellites, implantable medical devices, minimally invasive surgery equipment, micro robots, and miniature molds and dies. It is expected that miniature parts will be increasingly demanded in the future.

Papers are sought to address theoretical and applied research issues related to manufacture, assembly, and metrology for components and systems with micro-scale features.

Papers are also sought that describe interesting applications of both current and emerging micromanufacturing methods and equipment, including those that bridge the nano- and macro- worlds. All papers must be technical in nature and include original work. *Copyrights remain with the authors. Extended Abstracts due on November 19, 2010; Full manuscripts due on January 15, 2011.*

We look forward to seeing you at **Tokyo Denki University (TDU)**.

Topics to be Covered

Topics may include, but are not limited to, mechanics and dynamics of process behavior at the microscale; the miniaturization of machines and equipment as well as associated issues such as tooling, fixturing, positioning, motion generation, sensors systems, and control; the microfactory paradigm; new concepts and methods for micro-scale metrology; materials handling, joining, and assembly at the micro-scale; multi-scale modeling and simulation; design for micro-scale manufacturing; and materials-related issues at the micro-scale. A broad range of processes will be considered including machining, forming, EDM and ECM, laser-based processing, casting and molding, and others.

Conference Chair:

Kuniaki Dohda Nagoya Institute of Technology, Japan

Co-Chairs:

Yoshimi Takeuchi Osaka University, Japan
Yasunori Saotome Tohoku University, Japan

Secretaries:

Takashi Matsumura Tokyo Denki University, Japan
Takehiko Makino Nagoya Institute of Technology, Japan

Scientific Committee Chair:

Simon Park University of Calgary, Canada

Extended abstract submissions due:

November 19 , 2010

Authors notified of acceptance:

November 30, 2010

Full papers due:

January 15, 2011

Author registration deadline:

January 15, 2011

Paper submission and Information for Authors

http://icomm.northwestern.edu/content/information_authors.php