

ISAM 2007
2007 IEEE International Symposium on Assembly and Manufacturing
 (formerly IEEE International Symposium on Assembly and Task Planning)
 July 22-25, 2007, Ann Arbor, Michigan, USA
 Sponsored by IEEE Robotics and Automation Society and technical co-sponsored by ASME Design Engineering Division

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SYMPOSIUM SECRETARIAT

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<http://me.engin.umich.edu/isam2007/>

SYMPOSIUM SCOPE

Building upon a decade of success, the IEEE International Symposium on Assembly and Task Planning (ISATP) has evolved to the IEEE International Symposium on Assembly and Manufacturing (ISAM). The symposium aims at providing a forum for researchers and practitioners working on the diverse issues of assembly and manufacturing in various product sizes (nano to macro), production scales (workcell to global supply chain), and product life stages (product design to product retirement). Papers are solicited for all aspects of theories, methodologies, applications, and case studies related to assembly and manufacturing. Topics of interest include but not limited to:

- Assembly/disassembly/manufacturing planning, scheduling, and automation
- Assembly/disassembly cost estimation
- Assembly/disassembly in product life-cycle engineering and management
- CAD/CAM integration
- Design for manufacturing, (dis)assembly, sustainability, and environment
- Dismantling, sorting, and separation for reuse and recycling
- Fixturing, grasping, and manipulation
- Line balancing and optimization
- Macro, micro, and nano assembly processes and systems
- Modeling, simulation, and design of manufacturing processes and systems
- Monitoring, error detection and recovery
- Motion and contact planning
- Part feeding and reorientation
- Planning and scheduling under uncertainty
- Precision and robotic assembly
- Self-(dis)assembly
- Task, production, and manufacturing process planning and scheduling
- Tolerance analysis and design
- Virtual assembly, prototyping, and manufacturing

TECHNICAL TOURS

Technical tours will be organized to local academic and/or industry facilities, including the NSF Engineering Research Center for Reconfigurable Manufacturing Systems at the University of Michigan.

PAPER SUBMISSION

Submit an electronic copy (PDF) of a paper in IEEE format to the ISAM 2007 Web site at <http://me.engin.umich.edu/isam2007/> for peer review. The maximum number of pages is limited to 6 but 2 extra pages are allowed with page charge. Detailed instructions will be found at the symposium Web site.

ORGANIZED SESSIONS

An organized session can be formed by 4-5 related papers reviewed, and accepted through the regular process. Submit a brief proposal including the abstracts of the papers intended for the session to the symposium Web site.

IMPORTANT DATES

- Submission of papers and session proposals: **December 1, 2006**
- Notification of acceptance: **February 19, 2007**
- Final paper submission: **March 23, 2007**

