



CLAWAR2007

10th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines

16 – 18 July, 2007, Singapore

Extended deadline
31 January 2007!

Final Call for Papers

Robotics is an exciting field in engineering and natural sciences. Robotics has already made important widespread contributions and impact in industrial robots for tasks such as assembly, welding, painting, and material handling. In parallel, we have also witnessed the emergence of special robots which perform valuable jobs, in non-industrial environments such as in search and rescue, de-mining, surveillance, exploration, and security missions. The emergence of mobile machines, such as the climbing and walking robots, for these missions in un-structured environments, has significantly broadened challenges that must be considered by robotics research.

The purpose of the 10th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines (CLAWAR2007) is to provide a venue where researchers, scientists, engineers and practitioners throughout the world can come together to present and discuss the latest achievements, future challenges and exciting applications for mobile machines in general, and climbing and walking robots in particular. In order to benefit all participants, and also to maximize the interaction, the technical program of this conference is intentionally tailored to having relatively few parallel tracks. Each track will accommodate peer-reviewed articles, comprising regular and special sessions, dealing with theoretical, experimental and applicative works. Moreover, the conference will include several keynote lectures and poster sessions.

Topics of Interest (non-exhaustive list):

RESEARCH

- Autonomous CLAWAR
- Tele-operated CLAWAR
- Biologically-inspired CLAWAR Systems and Solutions
- Innovative Design of CLAWAR
- Modeling and Simulation of CLAWAR
- Planning and Control of CLAWAR
- Co-operative CLAWAR Machines
- Intelligence and Learning for CLAWAR
- HMI for CLAWAR
- Innovative Actuators and Power Supplies
- Innovative Sensors and Sensor Network
- Positioning & Localization
- Perception and Sensor Fusion
- Guidance and Navigation
- Manipulation and Gripping
- Legged Locomotion
- Wheeled Locomotion
- Hybrid Locomotion
- Tele-presence
- Virtual Reality
- Standards and Sandardisation

APPLICATION

- Planetary Exploration
- Security
- Emergence Rescue Operations
- Surveillance
- Reconnaissance
- Education
- Biomedical Field
- Rehabilitation and Function Restoration
- Petrochemical Field
- Inspection
- Construction
- Entertainment
- Helping the Elderly and the Disabled
- Manufacturing
- Performing Robots
- Personal Robots
- Robots for Domestic Environments
- Service Robots
- Space Robots
- Assistive Robots
- Sport and Exercise

Important Dates: For further detail, visit: <http://www.clawar.org/clawar2007/>

Extended Abstracts, or Full Papers: 31 January 2007
Paper Acceptance: 15 March 2007
Submission of Final Papers: 15 May 2007
Early Bird Registration: 15 May 2007
Preliminary Program: 1 June 2007
Conference: 16 – 18 July 2007

Local Organizing Committee:
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