



# The Fifth International Conference on Automation, Robotics and Applications

[<http://icara.massey.ac.nz/>]  
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*Making human life better...*

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#### Review Manuscript Submission

1 August 2011

#### Acceptance Notification

9 September 2011

#### Final Manuscript Submission

23 September 2011

#### Advance Registration

7 October 2011

#### Organized and sponsored by-

School of Engineering and Advanced Technology (SEAT), Massey University

#### Technical Co-sponsors

- IEEE NZ Central Section



- IEEE Instrumentation and Measurement Society



**James Cook Hotel Grand Chancellor**  
**December 6-8, 2011, Wellington, New Zealand**

## Call for Papers

ICARA 2011 is intended to provide a stimulating forum for researchers, scientists, engineers and practitioners to present their latest research findings, ideas, developments and applications in the area of automation and robotics. ICARA 2011 will include keynote addresses by eminent scientists as well as plenary, special, regular and poster sessions. All papers will be peer reviewed on the basis of an extended manuscript and acceptance will be based on quality, originality and relevance. Topics will include, but are not limited to:

- Networked and Distributed Intelligent Control
- Real Time Supervisory Control
- Adaptive Control Systems
- Biorobotics, Biomechanics
- Artificial Neural Networks in Biorobotics
- Artificial Intelligence in Biosystems
- Embedded Systems
- Autonomous Systems
- Virtual Systems
- Multi-Agent Collaborative Systems (MACS)
- Cooperative Robotics
- Entertainment Robotics
- Rescue Robotics
- Field Robotics
- Service Robotics
- Biped and Humanoid Robots
- Human-Machine Interfaces and Interaction
- Factory and Home Automation
- Simulation and Modelling of Robotic Systems
- Novel Robotic Locomotion
- Decision Making and Information Retrieval
- Educational Technology
- Mechatronics/robotics Education
- Fuzzy Systems, Neuro-Fuzzy Systems
- Rough Sets, Data Mining
- Navigation, Mapping and Path Planning
- Genetic Algorithm (GA)
- Evolutionary Computation (EC) and Algorithms
- Distributed Evolutionary Algorithms
- DNA Computing for Autonomous Agents
- Vision Systems for Automation and Robotics
- Robotics and Industrial Monitoring
- Smart Sensors and Sensor Fusion
- Implantable Sensors for Robotic Applications
- Sensors for Factory and Home Automation
- Instrumentation for Robotics and Automation

## Paper Submission

Authors are invited to submit the Review Manuscripts (4 to 6 pages including references) of their technical paper, for oral or poster presentation. Papers in PDF format may be uploaded via the web using EDAS paper management system at [www.edas.info](http://www.edas.info). The MS Word templates are available on the conference website. Final manuscripts will be limited to six (6) A4 size pages. **The conference has been accepted by the IEEE Conference Publications Program (CPP) and the proceedings will be published on CD with an ISBN of 978-1-4577-0328-7. The accepted papers will be listed in the IEEE Xplore digital library.**

In submitting a paper, the author(s) agree that, upon acceptance, they will prepare the final manuscript in time for inclusion into the proceedings and will present the paper at the conference. Advance registration is required for the final manuscript to be published.

## Special Sessions

ICARA solicits special session proposals. The special sessions are intended to stimulate in-depth discussions on cutting edge topics relevant to the conference theme. The session organizers will coordinate the review process for their session papers. The conference proceedings will include all papers from the special sessions. Please submit your proposal to [ICARA2011@massey.ac.nz](mailto:ICARA2011@massey.ac.nz)

For further details, please contact:

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