

## **SECOND CALL FOR PAPERS**

### **ICAIS 2002**

First International ICSC Congress on  
Autonomous Intelligent Systems  
Deakin University,  
Waterfront Campus  
Geelong, Australia  
12 - 15 February 2002

[www.icsc-naiso.org/conferences/icaais2002](http://www.icsc-naiso.org/conferences/icaais2002)

### **General information**

Autonomous intelligent systems can be described as intelligent entities that are capable of independent action in dynamic, unpredictable environments. This is a very fast growing research area attracting the attention of many researchers around the globe. The aim of the International Congress on Autonomous Intelligent Systems (ICAIS) is to bring the researchers, system developers and users both from industry and academia together to exchange their views and receive the very latest information on the on-going research and development. This will be carried out through a series of keynote addresses, technical sessions, workshops and exhibitions.

### **Organizing committee**

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JPL, NASA, USA

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Professor Saeid Nahavandi  
Deakin University, Australia

Co-Chair (Asia)  
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ARTS Lab, Italy

Tutorial/Workshop Chair  
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The Australian National University  
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ICSC-NAISO Operating Division The Netherlands

Local organizing committee members

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Matthew Joordens

Dejan Djukic

Lingxue Kong

Hieu Trinh

Jingxin Zhang

Saeid Nahavandi

The International Congress on Autonomous Intelligent Systems welcomes submissions of original and high quality papers. Accepted papers will be formally published in the ICSC Journal of Autonomous Systems.

### **Congress topics**

Technical issues to be addressed include, but are not restricted to:

Evolution of Agents

Agent-Based Software Engineering

Distributed Architecture For Mobile Navigation

Autonomous Robots

Autonomous Mobile Robots

Path Planning And Obstacle Avoidance With Nonholonomic Robots

Cooperative Autonomous Robots For Hazardous Environments

Fault-Tolerant Algorithms And Architectures For Robotics

Adaptive Path Planning

Intelligent Navigation and Guidance

Design and Control of Autonomous Underwater Robots

A Control Architecture For An Autonomous Mobile Robot

Action Selection and Planning

Adaptation and Learning

Agent Architectures

Agent Communication Languages

Artificial Market Systems and Electronic Commerce

Designing Agent Systems Expert Assistants Fusion of Sensory Systems

Real Time Vision

Distributed Systems

Multi-Agent Systems

Machine Learning

Intelligent Manufacturing

Integration And Coordination Of Multiple Activities

Knowledge Acquisition And Management

Modeling The Behavior Of Agents

Models Of Emotion, Motivation, Or Personality

Multi-Agent Teams

Multi-Agent Communication, Coordination, And Collaboration

Multi-Agent Simulation, Verification, And Validation

Evolutionary Computing

Data Mining

Bayesian and Belief Information Fusion

Fusion Applications to Management

Fusion Applications to Situation Assessment

Diagnostic Information Fusion

Data Fusion Evaluation and Test Beds

Management / Business Information Fusion  
Image Fusion / Exploitation  
Target Recognition / Tracking / Identification` Discrimination  
Machine Vision

**International technical committee [itc]**

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### **Sponsors**

- Deakin University, Australia
- IEEE, The Institute of Electrical and Electronics Engineers
- IEE, Institution of Electrical Engineers
- The Institution of Engineers, Australia
- ICSC- NAISO

### **Scientific program**

ICAIS 2002 will include invited plenary talks, contributed sessions, invited sessions, workshops and tutorials. Updated information available on ICAIS home page

#### Call for invited sessions

The organization of invited sessions is encouraged. Prospective organizers are requested to send a session proposal - consisting of

4-5 invited papers - to the general chair and respective area co-chair. Invited sessions should preferably start with the title and the purpose of the session and a tutorial paper. The registration fee of the session organizer will be waived, if at least 4 authors of invited papers register to the conference.

#### Poster presentations

Poster presentations are encouraged for people who wish to receive peer feedback, and practical examples of applied research are

particularly welcome. Poster sessions will allow the presentation and discussion of respective papers, which will also be included in the conference proceedings.

#### Call for workshops, tutorials, and other contributions

Several workshops/tutorials are planned for ICAIS 2002. Each workshop/tutorial will focus on a particular topic, and consist of several presentations and open discussions. The proposal for a workshop/tutorial should include the title, topics covered, proposed speakers, targeted audiences, and estimated length (hours) of the workshop/tutorial. The proposal should be submitted to the general chair and respective area co-chair by July 31, 2001

#### Submission of papers

Submission of papers can be done through our web site.

If you submit a paper you will receive a notification e-mail with your paper number. Please use this reference number in the subject line in all correspondence and send us a draft paper by email for review by the International Program Committee. Please do not send us any hard copies.

Please check our website for further instructions.

### **Important dates**

Submission Deadline: July 31, 2001 (Extended)

Notification of Acceptance: October 15, 2001 (Extended)

Delivery of Manuscripts: November 30, 2001

Conference: February 12 - 15, 2002

**General chair**

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