

# Cybernetic Intelligence, Challenges & Advances

2nd SMC UK&RI Chapter Conference on Systems & Cybernetics

## CALL FOR PAPERS

The early cyberneticists were some of the pioneers of artificial intelligence, and intelligence has been a key part of cybernetics ever since, though Cybernetic Intelligence itself is relatively new. Therefore, the IEEE Systems, Man & Cybernetics Chapter in the UK and Republic of Ireland is organising their second annual event aimed at moving towards conceptual unification of the areas within the discipline of cybernetic intelligence. This workshop will provide an interdisciplinary forum for the experimental, theoretical and application-oriented aspects of all aspects of the subject. The event is scheduled for **17 September 2003** and will be held at University of Reading, UK.

### Scope and Topics

The theme of the workshop is Cybernetics Intelligence (CI). The program committee will solicit high quality papers containing original contributions in all areas of experimental, theoretical and application-oriented aspects of cybernetics, especially cybernetic intelligence including, but not limited to:

- 1 CI and its Paradigms
- 2 Biological vs CI
- 3 Soft Computing in Cybernetics
- 4 Self-organising Systems
- 5 Adaptive Systems
- 6 Learning Mechanisms in Control Systems
- 7 Intelligent Decision Making Systems
- 8 Mathematical Approaches to Cybernetics
- 9 Second-order Cybernetics
- 10 Hybrid Intelligent Systems
- 11 Applications of CI
- 12 Current Challenges and Future Paradigms

### **Paper Submission**

Prospective authors are strongly encouraged to submit extended abstracts of max 2 pages (A4 size) by **20 June** electronically. The papers should be sent to the Conference contact person:

Dr R Mitchell                      [RichardjMitchell@IEEE.Org](mailto:RichardjMitchell@IEEE.Org)

For general enquiries please contact:

Prof A Hessami                      [A.G.Hessami@IEEE.Org](mailto:A.G.Hessami@IEEE.Org)

The status of the submitted papers will be announced by 15 July. The up to date programme will be accessible via following webpages;

<http://www.ieee.org.uk/smc.html>

&

<http://www.cyber.rdg.ac.uk/people/R.Mitchell/ieeesmc/index.htm>