

# Cognitive Science News

## AI/Expert Systems Applications

The First International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems will be held from June 2-3, 1988 at The University of Tennessee Space Institute (UTSI), Tullahoma, TN., 37388. The conference will be sponsored by UTSI in cooperation with American Association for Artificial Intelligence (AAAI), Association for Computing Machinery (ACM-SIGART), National Society of Professional Engineers (NSPE), and Biomedical Engineering Society (BES).

The objective of this conference is to provide a forum for the international community (industrial, engineering, academic and government representatives) to (i) present and discuss their contributions; (ii) overview the recent successes of AI & ES in the industrial and engineering environment; (iii) form mutual cooperative research groups in the areas of interest, and (iv) discuss the future directions of research and development. Original papers are solicited in areas relating AI & ES technology to engineering and industrial applications. The papers concerning basic research, tools, and technique should focus on one or more aspects of knowledge acquisition, representation, and learning; inference, reasoning, and searching techniques; heuristic programming; AI languages; hardware and software implementation; validation and evaluation; planning and problem solving; scheduling; automatic programming; cognitive modeling; natural language and speech; perception and robotics; image processing and understanding; and intelligent distributed systems. The application areas include, but are not limited to, the following:

- Fault Monitoring and Diagnosis
- Computer-aided Design
- Automatic Controls
- Computer-aided Manufacturing
- Computer Engineering
- Software Engineering
- Systems Engineering
- Medical and Biomedical Engineering
- Aerospace Engineering
- Oceanic and Atmospheric Engineering
- Chemical, Petroleum & Mining Engineering
- Mechanical and Electrical Engineering
- Intelligent Industrial Robots
- Robotic Vision

- Mobile Robots and Autonomous Navigation
- Aircraft and Flight Management
- Space Station Automation
- Space Support and Satellite Autonomy
- Spacecraft Controls and Operations
- Operations in Nuclear or Hazardous Environments
- Command Control and Communications
- Man-machine Interface

Further information may be obtained from and additional correspondence should be directed to:

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**10th ANNUAL CONFERENCE OF THE  
COGNITIVE SCIENCE SOCIETY**

**Montreal, Quebec, Canada  
August 1988**

The 10th Annual Conference of the Cognitive Science Society will take place at McGill University in Montreal, Wednesday, August 17th through Friday, August 19th, 1988.

The Conference will include major addresses and invited symposia on problem solving and reasoning, formal analysis of language, and the interaction between neurosciences and cognitive science.

Submission of papers, symposia and posters are encouraged in any of the areas of cognitive science. A call for papers and a Conference registration form will be mailed to all members of the Cognitive Science Society and related organizations early in 1988.

For more information contact:

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