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Announcements

2-6 JULY 1990

PARIS, FRANCE

**2nd International Conference
Economics and Artificial Intelligence****Scope**

Economics was based for a long time on the assumption of homo oeconomicus. But one has more and more to tackle with the representations that economic agents use when reasoning about the problems they perceive.

The purpose of Artificial Intelligence and Cognitive Sciences is precisely to understand how homo cogitans is building his mental models and his reasoning about his knowledge.

Thus, should not homo oeconomicus be conceived as an homo cogitans? Recent economic work is heading in that direction by taking into account the agent's mental expectations, beliefs and effective calculations.

Conversely, should not homo cogitans be conceived as an homo oeconomicus? Cannot Artificial Intelligence enhance its methodology by considering the economics of cognition?

The aim of the conference is to explore the cross-fertilization of social sciences (economics, management, organization theory) and cognitive sciences (artificial intelligence, logic, cognitive psychology, neurosciences).

Topics**1. Theories and methods****1.1. Economic models and knowledge**

- Rational expectations models
- Economy of cognition, value of information, transparency of information
- Risk perception and uncertain knowledge
- Knowledge in economics and non classic logics (epistemic, non monotonic, fuzzy)
- Cooperative and non cooperative games, multiagent models: negotiation, bargaining, contracts
- Knowledge in economic models: asymmetric information, credibility
- Common knowledge and emergence of institutions and conventions

1.2. Cognition, communication and learning

- Reasoning with and about limited resources

- Microstructure of markets
- Implicit knowledge, implicit contracts
- Cognitive process of discovery
- Parallel distributed processing and connectionism
- Knowledge, planning and action

1.3. New modeling methods for complex systems

- Conceptual modeling in knowledge-based systems
- Metamodeling: the study of the methods of modeling
- Specialized hardware and software for modeling complex systems

2. Experimentation and simulation**2.1. Decision Support System (D.S.S.) for management and organization**

- Intelligent information systems and computer-aided decision making
- Validation procedure for D.S.S. and expert systems
- Connection between large data base and knowledge base
- Strategic and planning game

2.2. Intelligent forecasting models

- Planning and control models
- Macro and micro-economic models
- Manufacturing and distribution models
- Expert systems for financial analysis. Risk assessment and portfolio theory

2.3. Organizational intelligence

- Human Resource management
- Legal and fiscal systems
- Office automation
- Economic and social impact of AI
- Innovation and technological change

2.4. Large systems planning

- Regional and urban planning
- Environmental resources management
- National health organization
- Transportation and communication

Papers Presentation and Selection

The Program Committee will favor papers which will highlight the cross-fertilization of Artificial Intelligence and related fields with areas of application in Economics, Management and Organization Theory.

Although the area under study is rather new, expected contributions will exhibit openness and rigor, in order to maintain a high level of quality in the presentations.

The proceeding of the first International Conference on Economics and Artificial Intelligence are published by Pergamon Press, IFAC Proceedings series, Oxford, UK, 1987.

Conference Secretariat

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29-31 OCTOBER 1990

BOURNEMOUTH, UK

**International Conference on Information
Technology and People**

The ways in which decision makers should be taking account of emerging technology, and of people's reactions to it, will be the subject of an International Conference being organised jointly by Britain's two foremost institutions representing Information Technology professionals - the Institution of Electrical Engineers (IEE) and the British Computer Society (BCS).

The Conference, to be held in Bournemouth's prestigious International Conference Centre from 29-31 October 1990, will take the bold step of bringing together professionals from sociological and economic disciplines as well as the technologists, in order to inject the greatest possible degree of realism into visions of a future information society, answering questions such as:

- is the technology really practicable?
- do people really want it?
- if so, how rapidly is it likely to develop?

Topics

IT and the Customer
IT in Industry and Commerce
IT and the Employer
IT and Communications
IT and Government

Anyone interested in attending the Conference, should contact the IEE Conference Services Department, Savoy Place, London WC2R 0BL. Tel: 01-240 1871. Ext 222.