



# WORKSHOP ON ECONOMICS AND HETEROGENEOUS INTERACTING AGENTS

30 May - 1 June 2002

Miramare - Trieste, Italy

The seventh Workshop on Economics and Heterogeneous Interacting Agents will be held at the Abdus Salam International Centre for Theoretical Physics, Trieste, Italy. It will be directed by **Mauro GALLEGATI** (University of Ancona, Italy), **Alan KIRMAN** (University of Marseille III, France) and **Matteo MARSILI** (INFN-SISSA, Trieste, Italy), also acting as Local Organizer.

The economy is more and more frequently regarded as a complex system of interacting agents. Recent developments of this approach have focused on three main issues:

**i) The heterogeneity of agents in the economy:** The representative agent model, while elegant, versatile and widely accepted, is unrealistic and does not capture the variety in economic behaviour. **ii) The ways in which agents interact:** Powerful results have been derived for market-mediated economic interactions or for strategic interactions in game-theoretic settings with few agents. Many socio-economic issues call for intermediate approaches where economic interactions are non-market, non-strategic and distributed (in space-time). Actually, the network of socio-economic interaction and its dynamics has become a subject of interest in its own. **iii) The dynamic process which governs the evolution of the individual:** The classical model where individual behaviour arises as the optimal contingent plan of actions of a deductive rational, perfectly informed utility maximizer agent, is more and more frequently replaced by models where agents learn and adapt to their economic environment. This raises the issue of understanding the collective dynamical properties of systems of boundedly (inductively) rational interacting agents. This Workshop offers a forum for presentation and discussion of the latest results on these issues.

## WORKSHOP TOPICS INCLUDE:

Interacting agents: General Considerations  
Aggregation of Heterogeneous Agents  
The Analysis of Cooperation  
Bounded Rationality  
Interacting Particle Systems and Economics  
Percolation Theory and Economics  
Learning in Economics  
Evolutionary Game Theory  
Computational Methods in Economics  
Market Structure and its Emergence  
Economic Graphs and Network Analysis  
Non-linear Econometrics

**CALL FOR CONTRIBUTED PAPERS:** The Programme Committee invites the submission of contributions for oral and poster presentations. Those interested are encouraged to send a one-page abstract of your talk/poster, along with the registration form, no later than **31 JANUARY 2002**. An electronic version of the one-page abstract, should also be sent (in RTF or PostScript format) to [smr1409@ictp.trieste.it](mailto:smr1409@ictp.trieste.it). Acceptance of a contribution for oral or poster presentation will be notified as soon as possible. The final version of the accepted papers is required by **30 April 2002** and will be made available on the web page of the Workshop.

**PROGRAMME COMMITTEE:** **Robert Axtell** (The Brookings Institute, Washington, U.S.A.), **Carl Chiarella** (University of Technology, Sydney, Australia), **Robin Cowan** (University of Maastricht, The Netherlands), **Richard Day** (University of Southern California, U.S.A.), **Domenico Delli Gatti** (University of Milano, Italy), **Giovanni Dosi** (University of Pisa & Sant' Anna School of Advanced Studies, Pisa, Italy), **Massimo Egidi** (University of Trento, Italy), **Daniel Friedman** (University of California, Santa Cruz, U.S.A.), **Mauro Gallegati** (University of Ancona, Italy), **Laura Gardini** (University of Urbino, Italy), **Alan Kirman** (University of Marseille III, France), **Michael Kopel** (University of Technology, Vienna, Austria), **Cars Hommes** (University of Amsterdam, The Netherlands), **Thomas Lux** (University of Kiel, Germany), **Rosario Mantegna** (University of Palermo, Italy), **Fernando Vega-Redondo** (University of Alicante, Spain).

**PARTICIPATION/REGISTRATION:** Participation is open to all scientists from all member countries of the United Nations, UNESCO or IAEA. There is no registration fee but participation is limited. **Please note, there are no participation grants available for this Workshop. Therefore, all participants will be required to provide for their own expenses. Details on accommodation facilities will be provided to those who have been selected by the Organizers.** As the activity will be conducted in English, participants should have an adequate working knowledge of that language.

All those interested in attending should complete and return the Registration Form, which may be found at the back of the Workshop Announcement, (also obtainable via e-mail: [smr1409@ictp.trieste.it](mailto:smr1409@ictp.trieste.it), using as subject "get announcement" or via WWW Server: <http://www.ictp.trieste.it/>) by **31 JANUARY 2002**, please also attach Abstract, to:

the Abdus Salam ICTP  
WEHIA 2002 - SMR.1409  
(c/o Ms. Doreen Sauleek)  
Strada Costiera 11  
I-34014 Trieste, Italy

The decision of the Organizers will be communicated to all candidates as soon as possible

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Trieste, October 2001

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## KEYNOTE SPEAKERS:

**J.-P. BOUCHAUD**  
(CEA-Saclay & Science and Finance,  
Paris, France)

**S. METCALFE**  
(University of Manchester, U.K.)

**J. SCHEINKMAN**  
(Princeton University, U.S.A.)

**H.E. STANLEY**  
(Boston University, U.S.A.)

**Y.-C. ZHANG**  
(University of Fribourg, Switzerland)

**DEADLINE**

**31 JANUARY 2002**

