SETTING SCIENCE AGENDAS FOR EUROPE

ESF Exploratory Workshop on

Science and Technology of Agreement

Barcelona, Spain, 18-21 June 2008

Convened by:

**Oscar Vilarroya ①, Ramon Lopez de Mántaras ②
and Carles Sierra ②**

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The European Science Foundation (ESF) is an association of 77 Member Organisations devoted to scientific research in 30 European countries. The Mission of ESF is to provide a common platform for its Member Organisations in order to advance European research and to explore new directions for research at the European level. Through its activities, the ESF serves the needs of the European research community in a global context.

The main objectives of ESF for the years 2006-2010 as defined by its current *Strategic Plan* are to promote Science Strategy and Science Synergy, paving the way for initiatives across disciplinary and geographic boundaries in the European Research Area (ERA).

The Exploratory Workshops scheme is one of the key instruments of the Science Strategy "pillar". Each year, ESF supports approximately 50 Exploratory Workshops across all scientific domains. The focus of the scheme is on workshops aiming to explore an emerging and/or innovative field of research or research infrastructure, also of interdisciplinary character. Workshops are expected to open up new directions in research or new domains. It is expected that a workshop will conclude with plans for specific follow-up research activities and/or collaborative actions or other specific outputs either within the frame of ESF (e.g. prepare the ground to develop a Forward Look, a Research Networking Programme or a EUROCORES proposal; publication of a Policy Briefing…) or for submission to the EU 7th Framework Programme or to other European or international funding organisations.

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Main Objectives of the Workshop:

The aim of the workshop is to bring together researchers from different disciplines (such as social psychology, biological anthropology, social neuroscience, artificial intelligence) who can contribute to a better understanding of agreement in social contexts among multi-agent artificial systems. Presently, there is not a shared and dominant model of agreement as mental attitude, as decision and action, and as a social relationship. A fruitful dialogue and transfer of knowledge among these disciplines is needed for the construction of multi-agent-systems and to use multi-agent-systems to simulate social systems.

PRELIMINARY PROGRAMME

Wednesday 18 June 2008

Afternoon/evening   *arrival*

Thursday 19 June 2008

Session 1	AGREEMENT TECHNOLOGY: AGREEMENT MODELS

09.00-09.15   **Welcome Address and objectives of Agreement Technology (AT)**
Ramon Lopez De Mantaras (Artificial Intelligence Research Institute, Spanish Research Council, ES)

09.15-09.35   **Presentation of the European Science Foundation (ESF)**
Juan José Moreno Navarro (Standing Committee for Physical and Engineering Sciences - PESC) and **Javier Esparcia Pérez** (Standing Committee for Social Sciences - SCSS)

09.35-10.45   **Electronic institutions**
Carles Sierra (Artificial Intelligence Research Institute, Spanish Research Council, ES)

10.45-11.30   **Information-based agency**
John Debenham (University of Technology, Sydney, AT)

11.30-11.45   Coffee break

11.45-12.30   **Conventions and Commitments in Agents**
Pablo Noriega (Artificial Intelligence Research Institute, Spanish Research Council, ES)

12.30-13.15   **Logics, emotions and agreements**
John Jules Meyer (Dept of Information and Computing Sciences, Utrecht University, NL)

13.15-15.00   Lunch

15.00-15.45   **Multi-agents Systems and Negotiation**
Wiebe van der Hoek (Department of Computer Science, University of Liverpool, UK)

15.45-16.30   **Logic of Information in Distributed Environments**
Marco Schorlemmer (Artificial Intelligence Research Institute, Spanish Research Council, ES)

16.30-16.45   Coffee break

16.45-18.45   **Discussion**

Friday 20 June 2008

Session 2	**AGREEMENT TECHNOLOGY: COMPUTATIONAL MODELS OF TRUST AND REPUTATION**

09.00-09.15 **Welcome and objectives of Day 2**
Oscar Vilarroya (Dept of Psychiatry and Legal Medicine, Autonomous University of Barcelona, ES)

09.15-10.45 **Trust and Misunderstanding in Social Interaction**
Jan-Willem van Prooijen (Department of Social Psychology, Amsterdam Free University, NL)

10.45-11.30 **Social Coginition in Primates**
Josep Call (Max-Planck-Institute for Evolutionary Anthropology, Krostitz, DE)

11.30-11.45   Coffee break

11.45-12.30 **Coputational Models for Social Interaction**
Christiano Castelfranchi (Instituto di Scienze e Technologie della Cognizione, CNR, Rome, IT)

12.30-13.15 **Neurobiology and Decision Making**
Oscar Vilarroya (Dept of Psychiatry and Legal Medicine, Autonomous University of Barcelona, ES)

13.15-15.00   Lunch

15.00-15.45 **Argumentation and Negotiation**
Katia Sycara (Robotics Institute, Carnegie Mellon University, Pittsburgh, US)

15.45-16.15   Coffee break

16.15-18.15 **Discussion and follow up activities**

20.30 *Social Dinner*

Saturday 21 June 2008

morning   Departure

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Objectives of the ESF Standing Committee for Physical and Engineering Sciences (PESC)

The **ESF Standing Committee for Physical and Engineering Sciences (PESC)** covers a broad number of fields from physics, chemistry, mathematics, informatics and computer sciences, to engineering, material and technical sciences. PESC has the following responsibilities and tasks:

- to develop scientific initiatives within the ESF operational framework;

- to make proposals for 'a la carte' scientific initiatives;

- to undertake studies on large research facilities and assist in the evaluations and assessments and other special reviews requested by Member Organisations;

- to provide specialist advice and input on a wide range of ESF actions and contribute to the development of the ESF science policy agenda and take a strategic view of the scientific area for which it has responsibility; and

- where appropriate, to work with other Committees and groups in promoting multidisciplinary and interdisciplinary activities.

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European Science Foundation

Objectives of the ESF Standing Committee for Social Sciences (SCSS)

The mission of the **ESF Standing Committee for Social Sciences (SCSS)** is as follows:

- to promote high quality social science research at the European level;
- to bring 'added value' to nationally funded research through European collaboration between ESF Member Organisations;
- to help support innovative research ideas and approaches emanating from the scientific community, and
- to play an institutional role in strengthening European social science research infrastructure.

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