



«ETTORE MAJORANA» FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
TO PAY A PERMANENT TRIBUTE TO GALILEO GALILEI, FOUNDER OF MODERN SCIENCE
AND TO ENRICO FERMI, THE «ITALIAN NAVIGATOR», FATHER OF THE WEAK FORCES



INTERNATIONAL SCHOOL OF MATHEMATICS «GUIDO STAMPACCHIA»

54th Workshop

STOCHASTIC METHODS IN GAME THEORY

ERICE-SICILY: 8 – 16 SEPTEMBER 2010

Sponsored by the: • Italian Ministry of University and Research • Sicilian Regional Government

PROGRAMME AND LECTURERS

Optimal use of information: strategic information acquisition and strategic information exchange

Optimal stopping problems

Networks and congestion games

Equilibria and optima in transport models

Algorithmic and computational aspects of equilibrium

Aspects of bounded rationality in strategic behavior

- D. BERGEMANN, Yale University, New Haven, CT, US
- S. DEMICHELIS, University of Pavia, IT
- A. DI TILLO, Bocconi University, Milan, IT
- E. FAINGOLD, Yale University, New Haven, CT, US
- J. FLESH, Maastricht University, BE
- F. GERMANO, Universitat Pompeu Fabra, Barcelona, ES
- H. GIMBERT, Lab. Bordelais de Recherches en Informatique, Talence, FR
- O. GOSSNER, Paris School of Economics, FR
- S. GOYAL, University of Cambridge, UK
- S. HART, Hebrew University of Jerusalem, IL
- J-J. HERINGS, Maastricht University, BE
- P. HERNANDEZ, Universitat d'Alcant, ES

- J. HÖRNER, Yale University, New Haven, CT, US
- M. JACKSON, Stanford University, CA, US
- R. LARAKI, École Polytechnique, Paris, FR
- G. LUGOSI, Universitat Pompeu Fabra, Barcelona, ES
- G. MAILATH, University of Pennsylvania, Philadelphia, PA, US
- I. MILCHTAICH, Bar-Ilan University, Ramat-Gan, IL
- A. NEYMAN, Hebrew University of Jerusalem, IL
- J. RENAULT, École Polytechnique, Paris, FR
- Y. RINOTT, Hebrew University of Jerusalem, IL
- D. ROSENBERG, Université Paris Nord, FR
- H. SABOURIAN, University of Cambridge, UK
- E. SHMAYA, Northwestern University, Evanston, IL, US
- E. SOLAN, Tel Aviv University, IL
- S. SORIN, Université Paris VI, FR
- G. STOITZ, École Normale Supérieure, Paris, FR
- J. THIJSSSEN, Trinity College, Dublin, IR
- T. TOMALA, École des Hautes Études Commerciales, Paris, FR
- N. VIEILLE, École des Hautes Études Commerciales, Paris, FR
- B. von STENGEL, London School of Economics, UK
- S. ZAMIR, Hebrew University of Jerusalem, IL

PURPOSE OF THE WORKSHOP

In the last few decades, the mathematical game and decision theory has made rapid progress and has been extended to new fields of research, such as stochastic games, bandit problems, complexity etc.

This is related to the fact that, besides the classic (mainly economic) applications, new issues have arisen in various fields, such as computer science, biology, etc. This, in its turn, has posed new problems to mathematical theory as well as to numerical and algorithmic disciplines.

The Conference aims at establishing the state of the art and focusing on the most important and advanced questions in the field. Special attention will be devoted to topics on the frontier of game theory, stochastics, computer science, operation research, etc. The speakers will be scholars in different fields of mathematics and its applications, who work on the frontier of research in game theory.

APPLICATIONS

Persons wishing to attend the Workshop should apply by e-mail to the Co-Director of the Workshop:

- Professor Marco SCARSINI
Dipartimento di Scienze Economiche ed Aziendali
LUISS
Viale Romania, 32 - 00197 ROMA, Italy
email: scarsini@luiss.it

They should specify:

- date and place of birth, together with current nationality;
- affiliation;
- address, e-mail address.

PLEASE NOTE

Participants must arrive on 8 September not later than 7 pm.

POETIC TOUCH

According to legend, Erice, son of Venus and Neptune, founded a small town on top of a mountain (750 metres above sea level) more than three thousand years ago. The founder of modern history — i.e. the recording of events in a methodic and chronological sequence as they really happened without reference to mythical causes — the great Thucydides (~500 B.C.), writing about events connected with the conquest of Troy (1183 B.C.) said: «After the fall of Troy some Trojans on their escape from the Achaei arrived in Sicily by boat and as they settled near the border with the Sicilians all together they were named Elymi: their towns were Segesta and Erice.» This inspired Virgil to describe the arrival of the Trojan royal family in Erice and the burial of Anchises, by his son Aeneas, on the coast below Erice. Homer (~1000 B.C.), Theocritus (~300 B.C.), Polybius (~200 B.C.), Virgil (~50 B.C.), Horace (~20 B.C.), and others have celebrated this magnificent spot in Sicily in their poems. During seven centuries (XIII-XIX) the town of Erice was under the leadership of a local oligarchy, whose wisdom assured a long period of cultural development and economic prosperity which in turn gave rise to the many churches, monasteries and private palaces which you see today.

In Erice you can admire the Castle of Venus, the Cyclopean Walls (~800 B.C.) and the Gothic Cathedral (~1300 A.D.). Erice is at present a mixture of ancient and medieval architecture. Other masterpieces of ancient civilization are to be found in the neighbourhood: at Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek). On the Aegadian Islands — theatre of the decisive naval battle of the first Punic War (264-241 B.C.) — suggestive neolithic and paleolithic vestiges are still visible: the grottoes of Favignana, the carvings and murals of Levanzo.

Splendid beaches are to be found at San Vito Lo Capo, Scopello, and Cornino, and a wild and rocky coast around Monte Cofano: all at less than one hour's drive from Erice.

More information about the «Ettore Majorana» Foundation and Centre for Scientific Culture can be found on the WWW at the following address:
<http://www.csem.infn.it>

Closing Date for Applications: 15 April 2010