



«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»

## 59th Workshop: *NONLINEAR OPTIMIZATION: A BRIDGE FROM THEORY TO APPLICATIONS*

ERICE-SICILY: 10 – 17 JUNE 2013

Sponsored by the: • Italian Ministry of Education, University, and Research • Sicilian Regional Government  
• Istituto Nazionale di Alta Matematica (GNAMPA) • University of Calabria • University of Venice Ca' Foscari • University of Rome

### PROGRAMME AND LECTURERS

*Constrained and unconstrained nonlinear optimization*

*Global optimization*

*Derivative-free methods*

*Nonsmooth optimization*

*Nonlinear complementarity problems*

*Variational inequalities*

*Equilibrium problems*

*Game theory*

*Bilevel optimization*

*Optimization and machine learning*

*Applications of nonlinear optimization*

- A. BORZÌ, University of Wurzburg, DE
- V. DEMYANOV, University of St. Petersburg, RU
- D. DI SERAFINO, II Università di Napoli, IT
- F. FACCHINEI, Sapienza Università di Roma, IT
- D.Y. GAO, University of Ballarat, Victoria, AU
- M. GAUDIOSO, Università della Calabria, Arcavacata di Rende, IT
- T. LUO, University of Minnesota, Minneapolis, MN, US
- K. MIETTINEN, University of Jyväskylä, FI
- L. PALAGI, Sapienza Università di Roma, IT
- J.-S. PANG, University of Illinois, Urbana-Champaign, IL, US
- S.M. ROBINSON, University of Wisconsin, Madison, WI, US
- G. SCUTARI, State University of New York at Buffalo, NY, US
- G.W. WEBER, Middle East Technical University, Ankara, TR
- Y.-X. YUAN, Chinese Academy of Science, Beijing, CN

### PURPOSE OF THE WORKSHOP

In the tradition of these meetings, the purpose of the Workshop is to review and discuss recent advances and promising research trends in Nonlinear Optimization and to provide a forum for fruitful interactions in strictly related fields of research, with a particular focus on applications.

The Workshop will include invited lectures (1 hour) and contributed lectures (30 min.). The invited lectures have been selected with the aim of representing different and innovative perspectives on the topics of the Workshop, with a wide international presence and an adequate national attendance.

Contributed lectures will be selected by the Scientific Committee on the basis of the abstract which will be submitted. Particular attention will be placed on innovative proposals and promising research developments.

### APPLICATIONS

Persons wishing to attend the Workshop should apply by sending an e-mail to:

- Professor Gianni DI PILLO  
Dipartimento di Ingegneria Informatica, Automatica e Gestionale "A. Ruberti"  
Sapienza Università di Roma  
Via Ariosto, 25 – 00185 Rome, IT  
e-mail: erice2013@dis.uniroma1.it

They should specify:

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

More information about the Workshop can be found at the following address:  
<http://www.dis.uniroma1.it/~erice2013>

**Closing Date for Applications: 10 March 2013**

### 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 Sicanians 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.cesem.infn.it>**

*PLEASE NOTE:* Participants must arrive on 10 June, not later than 6 p.m.