



«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 «G. STAMPACCHIA»

40th Workshop: LARGE SCALE NONLINEAR OPTIMIZATION

ERICE-SICILY: 22 JUNE - 1 JULY 2004

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

TOPICS AND LECTURERS

Constrained and unconstrained optimization
Large scale optimization
Global optimization
Derivative-free methods
Interior point techniques for nonlinear programming
Linear and nonlinear complementarity problems
Variational inequalities
Nonsmooth optimization
Neural networks and optimization
Applications of nonlinear optimization

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- S. SCHOLTES, University of Cambridge, UK
- J.P. VIAL, University of Geneva, CH
- S. WRIGHT, University of Wisconsin, Madison, WI, USA
- J. ZHANG, City University of Hong Kong, RPC

PURPOSE OF THE WORKSHOP

The Workshop aims at reviewing and discussing recent advances in the development of methods and algorithms for Nonlinear Optimization and its Applications, with a main interest in the large dimensional case, the current forefront of the research effort. It is the fourth in a series of Workshops on Nonlinear Optimization: the preceding ones have been held in 1995, 1998, and 2001.

See also: <http://www.dis.uniroma1.it/~erice2004>

APPLICATIONS

Persons wishing to attend the Workshop should apply by sending via e-mail the application form available at the URL reported below, before April 30, 2004. If they wish to contribute a lecture (30 min.), they should also include title and abstract of the proposed lecture or they should send a letter to the Director of the Workshop:

- Professor Gianni DI PILLO
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specifying:

- date and place of birth together with present nationality;
- degree and other academic qualifications;
- present position and place of work.

PLEASE NOTE

Participants must arrive in Erice on June 22, not later than 5 p.m.

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 Anchise, by his son Enea, 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 other activities of the Ettore Majorana Centre can be found on the WWW at the following address:
<http://www.ccsem.infn.it>

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