

## INTRODUCING THE WORKSHOP ON VARIATIONAL ANALYSIS, PDES AND MATHEMATICAL ECONOMICS

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(Guest Editors)

**ABSTRACT.** In this preface we describe the Workshop “Variational Analysis, PDEs and Mathematical Economics” held in Messina on September 19-20, 2019, to celebrate the 75th birthday of Antonino Maugeri. This special issue of AAPP collects some scientific results presented during the Workshop.

On September 19-20, 2019 the International Workshop “Variational Analysis, PDEs and Mathematical Economics” took place at the Accademia Peloritana dei Pericolanti. The event was organized by Patrizia Daniele (University of Catania), Maria Bernadette Donato (University of Messina), Sofia Giuffrè (Mediterranean University of Reggio Calabria), Monica Milasi (University of Messina), Laura Scrimali (University of Catania), and Carmela Vitanza (Ordinary member of Accademia Peloritana dei Pericolanti) to celebrate the 75th birthday of Professor Antonino Maugeri, an eminent researcher and very appreciated professor at the Universities of Messina and Catania.

Around 50 people participated at the event as researchers and friends of Nino Maugeri. There were 10 invited speakers: Giuseppe Buttazzo (University of Pisa), Piermarco Canarsa (University “Tor Vergata” of Roma), Pierluigi Colli (University of Pavia), Francisco Facchinei (University “La Sapienza” of Roma), Franco Giannessi (University of Pisa), Paolo Marcellini (University of Firenze), Dian Palagachev (Politecnico di Bari), Carlo Sbordone (University “Federico II” of Napoli), Michel Théra (University of Limoges) and Antonio Villanacci (University of Firenze).

The workshop touched on several contemporary topics of mathematical analysis, including minimax problems, partial differential equations, calculus of variations, optimal control, linear and nonlinear optimization, infinite-dimensional duality, convex analysis, and applications to equilibrium in economic models. The Organizing Committee thanks all those who attended the conference, and the speakers for their talks, which made the event successful. The event was possible thanks to the sponsors of this workshop: the University of Messina, the Accademia Peloritana dei Pericolanti, the Department of Information Engineering, Infrastructure and Sustainable Energy of the Mediterranean University

of Reggio Calabria, the Department of Mathematics and Computer Science of the University of Catania, and the Gnampa of the Istituto Nazionale di Alta Matematica.

This special issue of AAPP contains a selection of scientific results presented during the Workshop, as well as two editorial/historical notes from Antonino Maugeri and his longtime friend and coauthor Mario Marino, general secretary of Accademia Gioenia of Catania. Special thanks go to Professor Paolo V. Giaquinta, director of the Classe di Scienze Fisiche, Matematiche e Naturali of the Accademia Peloritana dei Pericolanti and Editor-in-Chief of this journal, who hosted this special issue of the event.



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