

Volume 31 (2024), Number 2
is dedicated to Giuseppe Buttazzo
on the occasion of his 70th birthday.

Giuseppe Buttazzo started his career as a student of Ennio De Giorgi in Pisa in the '70s, and developed in a personal way some of the research directions that De Giorgi gave to the Italian community of mathematical analysis and calculus of variations. Variational arguments, relaxation, and weak notions of solutions to various forms of differential problems, in particular in a measure-theoretic framework, have been associated in Giuseppe's research topics with a strong taste for convex optimization and analysis, mainly taken from the French school, and with a genuine interest for modeling and applications, ranging from mechanics to economics. This led him to some topics which have been expanding in the last decades, such as shape optimization or optimal transport.

On these research areas, as well as on his most classical ones, Giuseppe supervised more than 20 students, including the two of us. Many of these students later became independent researchers, and are now spread through different countries in not less than four different continents; most of them will meet in Pisa in May 2024 for celebrating Giuseppe's 70th birthday. Besides students, Giuseppe Buttazzo also created a very deep network of collaborations, in particular in Italy and in France. This number of the Journal of Convex Analysis contains top-level original research results written by friends, students and collaborators of Giuseppe, who accepted an invitation that we sent more than one year ago in order to celebrate his birthday and his soon-to-come retirement.

It has been an honor for us to prepare this special issue of the Journal of Convex Analysis, and we thank the editor-in-chief and the staff of JCA for this opportunity, as well as all the authors and, maybe even more, all the referees who helped us in this task. But, mainly, we thank Giuseppe for his constant presence in the mathematical community in these last five decades.

Luigi De Pascale and Filippo Santambrogio
Florence and Lyon, February 27th, 2024
Guest Editors



Giuseppe Buttazzo