

**Progress in Nonlinear Differential Equations
and Their Applications**



Elliptic and Parabolic Problems

A Special Tribute to the Work of Haim Brezis

**Catherine Bandle
Henri Berestycki
Bernhard Brighi
Alain Brillard
Michel Chipot
Jean-Michel Coron
Carlo Sbordone
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Giorgio Vergara Caffarelli
Editors**



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This volume contains contributions by former students and collaborators of Haim Brezis given in honor of his 60th anniversary at a conference in Gaeta. H. Brezis has made significant contributions in the fields of partial differential equations and functional analysis. He is an inspiring teacher and counselor of many mathematicians in the front ranks. The collection of papers presented here grew out of his deep insight into analysis. In addition it reflects Brezis's elegant way of creative thinking.

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Preface

The goal of these proceedings and of the meeting of Gaeta was to celebrate and honor the mathematical achievements of Haim Brezis. The prodigious influence of his talent and his personality in the domain of nonlinear analysis is unanimously acclaimed! This impact is visible in the huge number of his former students (dozens), students of former students (hundreds) and collaborators (hundreds). Thus the Gaeta meeting was, to some extent, the family reunion of part of this large community sharing a joint interest in the field of elliptic and parabolic equations and pushing it to a very high standard.

Italy has a long tradition and taste for analysis and we could not find a better place neither a more complete support for the realisation of our project. We have to thank here the university of Cassino, Napoli, Roma "la Sapienza", the GNAMPA-Istituto di Alta Matematica, CNR-IAC, MEMOMAT, RTN Fronts-Singularities, the commune of Gaeta. Additional founding came from the universities of Mulhouse and Zürich. Finally, we are grateful to Birkhäuser and Dr. Hempfling who allowed us to record the talks of this conference in a prestigious volume.

The organizers