

# Preface

Djairo Guedes de Figueiredo has had a major influence in the development of the area of Analysis, particularly in its applications to problems in Partial Differential Equations (PDEs) for equations and systems of elliptic type by means of variational and topological techniques. As a mathematician living in his native country of Brazil, his guidance of students, his publication of 29 books and monographs, and collaboration with many colleagues (myself included) has been instrumental in creating a whole generation of researchers and various seminal groups in PDEs throughout the country. In addition, his respected status in the international mathematical community has contributed to the establishment of several collaborative programs of Brazil with other countries, especially Belgium and Italy.

The present volume contains a selection of papers of Djairo (as he is commonly addressed) spanning the areas of geometry of Banach spaces, monotone operators, and boundary value problems for scalar equations and systems of elliptic PDEs. In addition, a complete list of his research output of over 100 papers, including 40 collaborators, and the names and professional affiliations of his 26 (and counting) Ph.D. students is provided. Finally, a biographical account of Djairo's professional life (by Djairo, himself) is included in this volume of his selected works.

More often than not, especially through meetings in honor of Djairo, his students and colleagues have expressed their admiration and thanks for his guidance, inspiration and friendship.

I feel honored and privileged to have known, collaborated with, and enjoyed Djairo's friendship for the past nearly four decades.

Las Vegas

*David G. Costa*

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