1. Record Nr. UNINA9910299981303321

Titolo	Analysis and topology in nonlinear differential equations : a tribute to Bernhard Ruf on the occasion of his 60th birthday / / edited by Djairo G de Figueiredo, João Marcos do Ó, Carlos Tomei
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2014
ISBN	3-319-04214-9
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (465 p.)
Collana	Progress in Nonlinear Differential Equations and Their Applications, , 1421-1750 ; ; 85
Disciplina	515.355
Soggetti	Differential equations, Partial Calculus of variations Topology Partial Differential Equations Calculus of Variations and Optimal Control; Optimization Conference papers and proceedings.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Preface -- Asymptotic Behavior of Sobolev Trace Embeddings in Expanding Domains -- Multiplicity of Positive Solutions for an Obstacle Problem in R -- Elliptic Problems in Unbounded Cylinders -- Basic Properties of Ultra functions -- Multiple Radial Solutions at Resonance for Neumann Problems Involving the Mean Extrinsic Curvature Operator -- Equivariant Bifurcation in Geometric Variational Problems -- And many more.
Sommario/riassunto	This volume is a collection of articles presented at the Workshop for Nonlinear Analysis held in João Pessoa, Brazil, in September 2012. The influence of Bernhard Ruf, to whom this volume is dedicated on the occasion of his 60th birthday, is perceptible throughout the collection by the choice of themes and techniques. The many contributors consider modern topics in the calculus of variations, topological methods and regularity analysis, together with novel applications of partial differential equations. In keeping with the tradition of the

workshop, emphasis is given to elliptic operators inserted in different contexts, both theoretical and applied. Topics include semi-linear and fully nonlinear equations and systems with different nonlinearities, at sub- and supercritical exponents, with spectral interactions of Ambrosetti-Prodi type. Also treated are analytic aspects as well as applications such as diffusion problems in mathematical genetics and finance and evolution equations related to electromechanical devices.