1.	Record Nr.	UNINA9910781868503321
	Titolo	Variational problems in differential geometry : University of Leeds, 2009 / / edited by R. Bielawski, K. Houston, J.M. Speight [[electronic resource]]
	Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2012
	ISBN	1-107-22397-0
		1-139-16155-5
		1-283-34257-X
		1-139-16055-9
		1-139-15950-X
		9786613342577
		1-139-15598-9
		1-139-15774-4
		0-511-86321-7
	Descrizione fisica	1 online resource (xiii, 201 pages) : digital, PDF file(s)
	Collana	London Mathematical Society lecture note series ; ; 394
	Classificazione	MAT038000
	Disciplina	516.3/6
	Soggetti	Geometry, Differential
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Preface -- The supremum of first eigenvalues of conformally covariant operators in a conformal class / Bernd Ammann and Pierre Jammes -- K-destabilizing test configurations with smooth central fiber / Claudio Arezzo, Alberto Della Vedova and Gabriele La Nave -- Explicit constructions of Ricci solitons / Paul Baird -- Open iwasawa cells and applications to surface theory / Josef F. Dorfmeister -- Multiplier ideal sheaves and geometric problems / Akito Futaki and Yuji Sano -- Multisymplectic formalism and the covariant phase space / Frederic Helein -- Nonnegative curvature on disk bundles / Lorenz J. Schwachhofer -- Morse theory and stable pairs / Richard A. Wentworth and Graeme Wilkin -- Manifolds with k-positive / Ricci curvature Jon Wolfson.
	Sommario/riassunto	The field of geometric variational problems is fast-moving and

influential. These problems interact with many other areas of mathematics and have strong relevance to the study of integrable systems, mathematical physics and PDEs. The workshop 'Variational Problems in Differential Geometry' held in 2009 at the University of Leeds brought together internationally respected researchers from many different areas of the field. Topics discussed included recent developments in harmonic maps and morphisms, minimal and CMC surfaces, extremal Kahler metrics, the Yamabe functional, Hamiltonian variational problems and topics related to gauge theory and to the Ricci flow. These articles reflect the whole spectrum of the subject and cover not only current results, but also the varied methods and techniques used in attacking variational problems. With a mix of original and expository papers, this volume forms a valuable reference for more experienced researchers and an ideal introduction for graduate students and postdoctoral researchers.