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Titolo	Gradient flows [[electronic resource]] : in metric spaces and in the space of probability measures / / Luigi Ambrosio, Nicola Gigli, Giuseppe Savare
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ISBN	1-281-85136-1 9786611851361 3-7643-8722-X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (339 p.)
Collana	Lectures in mathematics ETH Zurich
Altri autori (Persone)	GigliNicola SavareGiuseppe
Disciplina	515.42
Soggetti	Measure theory Metric spaces Differential equations, Parabolic Monotone operators Evolution equations, Nonlinear Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous ed.: 2005.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Notation -- Notation -- Gradient Flow in Metric Spaces -- Curves and Gradients in Metric Spaces -- Existence of Curves of Maximal Slope and their Variational Approximation -- Proofs of the Convergence Theorems -- Uniqueness, Generation of Contraction Semigroups, Error Estimates -- Gradient Flow in the Space of Probability Measures -- Preliminary Results on Measure Theory -- The Optimal Transportation Problem -- The Wasserstein Distance and its Behaviour along Geodesics -- Absolutely Continuous Curves in $p(X)$ and the Continuity Equation -- Convex Functionals in $p(X)$ -- Metric Slope and Subdifferential Calculus in (X) -- Gradient Flows and Curves of Maximal Slope in $p(X)$.
Sommario/riassunto	Devoted to a theory of gradient flows in spaces which are not necessarily endowed with a natural linear or differentiable structure,

this book focuses on gradient flows in metric spaces. It covers gradient flows in the space of probability measures on a separable Hilbert space, endowed with the Kantorovich-Rubinstein-Wasserstein distance.
