



Gradient flows : in metric spaces and in the space of probability measures /

Ambrosio, Luigi

Birkhäuser,
2008

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Monografía

This book is devoted to a theory of gradient flows in spaces which are not necessarily endowed with a natural linear or differentiable structure. It consists of two parts, the first one concerning gradient flows in metric spaces and the second one devoted to gradient flows in the space of probability measures on a separable Hilbert space, endowed with the Kantorovich-Rubinstein-Wasserstein distance. The two parts have some connections, due to the fact that the space of probability measures provides an important model to which the "metric" theory applies, but the book is conceived in such a way that the two parts can be read independently, the first one by the reader more interested in non-smooth analysis and analysis in metric spaces, and the second one by the reader more orientated towards the applications in partial differential equations, measure theory and probability

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Título: Gradient flows in metric spaces and in the space of probability measures Luigi Ambrosio, Nicola Gigli, Giuseppe Savaré

Edición: 2nd ed

Editorial: Basel Boston Birkhäuser 2008

Descripción física: 1 online resource (vii, 334 pages) illustrations

Mención de serie: Lectures in mathematics ETH Zürich

Bibliografía: Includes bibliographical references (pages 321-331) and index

Contenido: 1. Introduction -- Part I. Gradient flow in metric spaces -- 2. Curves and gradients in metric spaces -- 3. Existence of curves of maximal slope -- 4. Proofs of the convergence theorems -- 5. Generation of contraction semigroups -- Part II. Gradient flow in the Wasserstein spaces of probability measures -- 6. Preliminary results on measure theory -- 7. The optimal transportation problem -- 8. The Wasserstein distance and its behaviour along geodesics -- 9. A.c. curves and the continuity equation -- 10. Convex functionals -- 11. Metric slope and subdifferential calculus -- 12. Gradient flows and curves of maximal slope -- 13. Appendix -- Bibliography

Lengua: English

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988449612 991918696 994809542 1035668429 1037903834 1038665363 1044252141 1056338821 1060663775
1061029075 1069503113 1077239757 1087030284 1103255306 1126476620 1135574646

ISBN: 9783764387228 376438722X 9783764387211 paper) 3764387211 paper) 1281851361 9781281851369
9786611851361 6611851364 9783764398088 print) 3764398086

Materia: Measure theory Metric spaces Differential equations, Partial Monotone operators Evolution equations,
Nonlinear MATHEMATICS- Calculus MATHEMATICS- Mathematical Analysis Differential equations, Partial
Monotone operators Evolution equations, Nonlinear Measure theory Metric spaces Differential equations, Partial
Evolution equations, Nonlinear Measure theory Metric spaces Monotone operators

Autores: Gigli, Nicola Savaré, Giuseppe

Enlace a formato físico adicional: Print version Ambrosio, Luigi. Gradient flows. 2nd ed. Basel ; Boston :
Birkhäuser, 2008 9783764387211 3764387211 (OCOLC)212432128

Punto acceso adicional serie-Título: Lectures in mathematics ETH Zürich

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es