

optimal transportation geometry and pdf

FIVE LECTURES ON OPTIMAL TRANSPORTATION: GEOMETRY, REGULARITY AND APPLICATIONS
ROBERT J. MCCANN — AND NESTOR GUILLEN Abstract. In this series of lectures we introduce the Monge-Kantorovich problem

FIVE LECTURES ON OPTIMAL TRANSPORTATION: GEOMETRY

THE GEOMETRY OF OPTIMAL TRANSPORTATION 115 For concave functions of the distance, the picture which emerges is rather different. Here the optimal maps will not be smooth, but display an intricate structure which--

The geometry of optimal transportation

THE GEOMETRY OF OPTIMAL TRANSPORTATION Wilfrid Gangbo School of Mathematics, Georgia Institute of Technology Atlanta, GA 30332, USA gangbo@math.gatech.edu

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Regularity of optimal transport in curved geometry: The nonfocal case Loeper, GrÃ©goire and Villani, CÃ©dric, Duke Mathematical Journal, 2010 Exponentially concave functions and a new information geometry Pal, Soumik and Wong, Ting-Kam Leonard, The Annals of Probability, 2018

Gangbo , McCann : The geometry of optimal transportation

A Geometric View of Optimal Transportation and Generative Model Na Lei Kehua Su y Li Cui z Shing-Tung Yau x David Xianfeng Gu { Abstract In this work, we show the intrinsic relations between optimal transportation and convex geometry,

A Geometric View of Optimal Transportation and Generative

2.2 Regularity of optimal transportation, fully nonlinear partial differential equations, and Riemannian geometry The smoothness of optimal transport maps is an important issue in transportation theory since it gives in-

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(PDF) A Geometric View of Optimal Transportation and

Abstract: In this work, we show the intrinsic relations between optimal transportation and convex geometry, especially the variational approach to solve Alexandrov problem: constructing a convex polytope with prescribed face normals and volumes. This leads to a geometric interpretation to generative models, and leads to a novel framework for generative models.

[1710.05488] A Geometric View of Optimal Transportation

scribing optimal transportation is related to minimum-cost matching, with a quadratic number of variables and time complexity scaling at least cubically in the size of the domain [Burkard and CÃ{e}la 1999].

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The Kantorovich optimal transport problem with a density constraint on measures on an infinite-dimensional space is considered. In this setting, the admissible transport plan is nonnegative and ...

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Bibliography (PDF) In the past two decades, the theory of optimal transportation has emerged as a fertile field of inquiry, and a diverse tool for exploring applications within and beyond mathematics.

MSRI | Optimal transport: geometry and dynamics

The aim of this course is to provide an overview of the theory of optimal transportation, one of the most active research directions in analysis, partial differential equations and geometry. This theory

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