
Optimal Transportation Geometry And Functional Inequalities

the geometry of optimal transportation - 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-- **five lectures on optimal transportation: geometry ...** - 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 of optimally transporting one distribution of mass onto another, where optimality is measured against a cost function $c(x,y)$. **a geometric view of optimal transportation and generative ...** - 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, **the geometry of optimal transportation - people** - the geometry of optimal transportation wilfrid gangbo school of mathematics, georgia institute of technology atlanta, ga 30332, usa gangbo@mathtech robert j. mccann department of mathematics, brown university providence, ri 02912, usa and institut des hautes etudes scienti ques 91440 bures-sur-yvette, france mccann@mathown july 28 ... **optimal transport geometry for sentiment analysis** - optimal transport geometry for sentiment analysis 3 remark 1. a reasonable condition is that we can always assume that $p_j \geq y_j$ and $i \geq x_i$, since we can always switch the role of what we call suppliers and what we call consumers. **five lectures on optimal transportation: geometry ...** - 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 of optimally transporting one distribution of mass onto another, where optimality is measured against a cost function $c(x;y)$. connections to geometry ... **12w5118 optimal transportation and differential geometry** - 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 information about qualitative behavior of the map, as well as simplifying computations and algorithms in **convolutional wasserstein distances: efficient optimal ...** - a limiting factor in optimal transportation is the complexity of the underlying minimization problem. the usual linear program describing 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 c_ela 1999]. **optimal transport in geometry** - some "hard" problems in geometry can be attacked by "soft" tools optimal transport is one such tool references • topics in optimal transportation [tot] (ams, 2003): introduction • optimal transport, old and new [oldnew] (springer, 2008): reference text, more probabilistic & geometric **optimal mass transportation for shape analysis** - optimal mass transportation for shape analysis david gu1 1stony brook university, usa shape analysis and learning by geometry and machine institute of pure and applied mathematics david gu surface geometry. thanks thanks for the invitation. david gu surface geometry. collaborators the work is collaborated with shing-tung yau, feng luo and **course outline math 566: theory of optimal transportation** - math 566: theory of optimal transportation instructor: young-heon kim yhkim@math.ubc office: math 216 phone: 604-822-6324 course material and topics: 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 ... **optimal transport, old and new - cedricvillani** - ables formulas associated with optimal transport by means of changes of variables that are lipschitz, and not just with bounded variation. part ii discusses optimal transport in riemannian geometry, a line of research which started around 2000; i have rewritten all these applications in terms of ricci curvature, or more precisely curvature-**information geometry connecting wasserstein distance and ...** - of all optimal transportation plans. we fully explored the information geometry of the manifold of the optimal transportation plans and subsequently constructed a new one-parameter family of divergences in s_n-1 that are related to both the wasserstein distance and the kl-divergence. b shun-ichi amari amari@brain.riken **arxiv:1709.10219v1 [math.oc] 29 sep 2017** - remarkable properties, generalizing the riemannian geometry [1]. we studied the geometry of the entropy-relaxed optimal transportation plans within the framework of information geometry. they form an exponential family of probability distributions defined in the product manifold $s_n \times s_n$. therefore, a dually at structure was introduced. the m-at **the optimal transport problem - university of notre dame** - logosnscol outline 1 the problem of optimal transportation 2 structure of optimal transport maps 3 the metric side of optimal transportation 4 some applications 5 the differential side of optimal transportation 6 gradient flows, optimal transportation and (nonlinear, diffusion) pde's luigi ambrosio (sns) the optimal transport problem rome, june 2017 2 / 34

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