Dostoglou, S.; Kahl, J. D.
Homogeneous measures and positive Alexandrov curvature. (English. Russian original)
Zbl 07394449

Summary: We examine the geometry of the subspace of homogeneous probability measures in terms of the 2-Wasserstein metric on the space of all probability measures on Hilbert spaces of functions. We show that, on appropriate Hilbert spaces, the geodesics joining homogeneous measures stay in the space of homogeneous measures and, as a result, the homogeneous measures themselves form a space of nonpositive curvature in the sense of A. D. Alexandrov.

MSC:
60Bxx Probability theory on algebraic and topological structures
35Qxx Partial differential equations of mathematical physics and other areas of application
28Dxx Measure-theoretic ergodic theory

Full Text: DOI

References:
[9] Rudin, W., Fourier Analysis on Groups (1962), New York etc: John Wiley and Sons, New York etc · Zbl 0107.09603

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.