

## On Geodesic Exponential Kernels - DTU Orbit (09/11/2017)

### On Geodesic Exponential Kernels

This extended abstract summarizes work presented at CVPR 2015 [1].

Standard statistics and machine learning tools require input data residing in a Euclidean space. However, many types of data are more faithfully represented in general nonlinear metric spaces or Riemannian manifolds, e.g. shapes, symmetric positive definite matrices, human poses or graphs. The underlying metric space captures domain specific knowledge, e.g. non-linear constraints, which is available a priori. The intrinsic geodesic metric encodes this knowledge, often leading to improved statistical models.

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Authors: Feragen, A. (Ekstern), Lauze, F. (Ekstern), Hauberg, S. (Intern)

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