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Covariance matrices play important roles in many areas of mathematics, statistics, and machine learning, as well as their applications. In computer vision and image processing, they give rise to a powerful data representation, namely the covariance descriptor, with numerous practical applications.

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Covariances in Computer Vision and Machine Learning

In computer vision and image processing, they give rise to a powerful data representation, namely the covariance descriptor, with numerous practical applications. In this book, we begin by presenting an overview of the {it finite-dimensional covariance matrix} representation approach of images, along with its statistical interpretation.

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widely ignored in the computer vision community. The purpose of this report is to present an analysis of the thus induced covariances and to show how they can easily be computed.

Covariances of Linear Filter Outputs in Computer Vision

His research interests are in computer vision and machine learning, in particular, probabilistic techniques for image and video analysis with applications to video surveillance, biomedical image analysis and bio-informatics.

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optimal solutions of geometric computer vision problems (slides: PDF, PPT). The overall goal is to find the best model that is consistent with the observations.

BIRS Workshop on Mathematical Methods in Computer Vision

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Minh HÃ Quang & Vittorio Murino: Covariances in Computer

As a technological discipline, computer vision seeks to apply its theories and models for the construction of computer vision systems, such as those in self-driving cars/navigation systems, medical image analysis, and industrial robots.

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Numerous applications in computer vision and machine learning rely on representations of data that are compact, discriminative, and robust while satisfying several desirable invariances.

Algorithmic Advances in Riemannian Geometry and

Abstract: Many parameter estimation methods used in computer vision are able to utilise covariance information describing the uncertainty of data measurements. This paper considers the value of this information to the estimation process when applied to measured image point locations. Covariance ...

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