

İSTATİSTİKSEL MANİFOLDLAR

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ÖZET

Bir istatistiksel model kısaca olasılık uzaylarının bir cümlesi olarak düşünülebilir. Bir başka deyişle çeşitli parametrelere bağlı olan olasılık yoğunluk fonksiyonlarının bir ailesi bir istatistiksel manifold olarak düşünülebilir (Amari, Differential-Geometrical Methods in Statistics). Bu yaklaşım istatistiksel manifoldların geometrik özelliklerini araştırma şansını verir.

Bu seminerde, hemen hemen değme kosimplektik istatistiksel manifoldlar üzerine yoğunlaşılacaktır ve eğrilik özellikleri incelenecektir. Daha fazlası, hemen hemen kosimplektik istatistiksel manifoldların Kaehler istatistiksel liflere sahip olma koşulu verilecektir (Yazla, Küpeli Erken, Murathan).

Anahtar Kelimeler : İstatistiksel manifoldlar, Fisher metrikleri, Afin dual koneksiyonlar, Hemen hemen istatistiksel değme yapılar, Hemen hemen istatistiksel kosimplektik manifoldlar

ABSTRACT

STATISTICAL MANIFOLDS

Roughly, a statistical model is considered as a set of probability distributions. In other words, a family of probability density functions which depend on several parameters can be thought of a statistical manifold (Amari, Differential-Geometrical Methods in Statistics). This approach gives a chance to study geometric properties of this kind of structure.

This study is focused on almost cosymplectic statistical manifolds and curvature properties are studied. Moreover, a condition is given for almost cosymplectic statistical manifolds to have Kaehler statistical leaves (Yazla, Küpeli Erken, Murathan).

Key Words: Statistical manifolds, Fisher metrics, Affine dual connections, Almost statistical contact structures, Almost statistical cosymplectic manifolds

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