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approximation to the optimal k-center clustering in $\Theta(n \log k)$, by a different implementation of the greedy algorithm mentioned above, and this algorithm is optimal in the algebraic decision tree model. They also showed that computing a c-approximation is NP-hard for all $c \leq 1.822$. Clustering motion.

Clustering Motion - Princeton University Computer Science

AB - This paper proposes a novel technique for clustering and classification of object trajectory-based video motion clips using spatiotemporal function approximations. Assuming the clusters of trajectory points are distributed normally in the coefficient feature space, we propose a Mahalanobis classifier for the detection of anomalous trajectories.

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clustering and classification of spatio-temporal object trajectories extracted from video motion clips. The trajectories are represented as motion time series and modelled using Chebyshev polynomial approximations. Trajectory clustering is then performed to discover patterns of similar object motion. The coefficients of the

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A new technique is proposed for clustering and similarity retrieval of video motion clips based on spatio-temporal object trajectories. The trajectories are treated as motion time series and represented either by least squares or Chebyshev polynomial approximations. Trajectory clustering is then carried out to discover patterns of similar object motion behaviour. The coefficients of

Classifying spatiotemporal object trajectories using ...

This paper proposes a novel technique for clustering and classification of object trajectory-based video motion clips using spatiotemporal functional approximations. A Mahalanobis classifier is then used for the detection of anomalous trajectories.

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Motion segmentation for natural images commonly re-lies on dense optic flow to yield point trajectories which can be grouped into clusters through various means

including spectral clustering or minimum cost multicut. However, in biological imaging scenarios, such as fluorescence microscopy or calcium imaging, where the signal to noise

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Motion trajectories provide rich spatiotemporal information about an object's activity. This thesis presents a novel technique for clustering and classification of object trajectory based video motion clips using basis function approximation.

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