

Department of Applied and Computational Mathematics and Statistics Colloquium

Christopher Peterson


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will give a lecture entitled:

Using Grassmann and Flag manifolds to uncover structure in data

Abstract

The Grassmann manifold, $Gr(n,k)$, is a geometric object whose points parametrize the k -dimensional vector spaces lying in a fixed n -dimensional vector space. Flag manifolds are a more general class of geometric objects whose points parametrize flags, i.e. nested sequences of vector spaces. This talk will illustrate, through a collection of examples, how the Grassmann and Flag manifolds can be used to uncover structure in a dataset.



**Friday, April 4, 2014
4:30 p.m. to 5:30 p.m.
127 Hayes-Healy Center**

Colloquium Tea

4:00 p.m. to 4:30 p.m. 154 Hurley Hall