
Subject: Re: Empirical Orthogonal Functions
Posted by [B}rd Krane](#) on Wed, 23 Apr 1997 07:00:00 GMT
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Serenio A. Barr-Kumarakulasinghe wrote:

>
> Does any one have routines to do Empirical Orthogonal Function analysis
> of arrays. I have looked at Peter Rileys IDL pro searchable
> web page and other pages as well. I see that there are routines to
> do principal components, but not EOF analysis.
>

Hi there

I am not familiar with the EOF analysis, but I guess it has something
to do with a decomposition technique with many names in different
research

communities: Karhunen-Loeve decomposition, Proper Orthogonal
Decomposition,
Bi Orthogonal Decomposition and finally the Singular Value
Decomposition.

There is an idl routine called svdc based on the Numerical Recipes, thus
you will find some documentation both in the online help system and the
book "Numerical Recipes in *"

A long shot, but hopefully this is what you are looking for.
Baard

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