

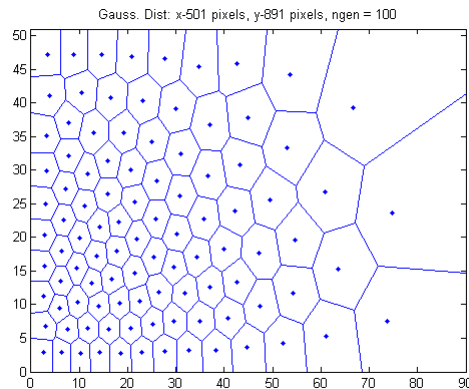
STudent REsearch TalkS (STREETS)

Mason Experimental Geometry Lab (MEGL)

Model reduction techniques for spatiotemporal data analysis in drought modeling

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Abstract

We present some recent developments in the field of spatiotemporal analysis and dimension reduction of geophysical data. Novel model reduction techniques based on centroidal Voronoi tessellations used in concert with traditional proper orthogonal decomposition techniques will be discussed in the context of drought modeling in continental US. Functionality of the new approach will be showcased based on multiple datasets and compared to standard approaches. Cost benefit analysis and possible extensions will be outlined.

Date: Friday, April 17, 2015

Time: 2:30pm–3:30pm

Place: Exploratory Hall 4106

Pizza and soda will be served at the presentation.

For further information or for special accommodations, please contact Sean Lawton via email at seanlawton@gmail.com or drop by the MEGL.