

You may also like...

A recommendation system for movies
based on Self Organizing Maps

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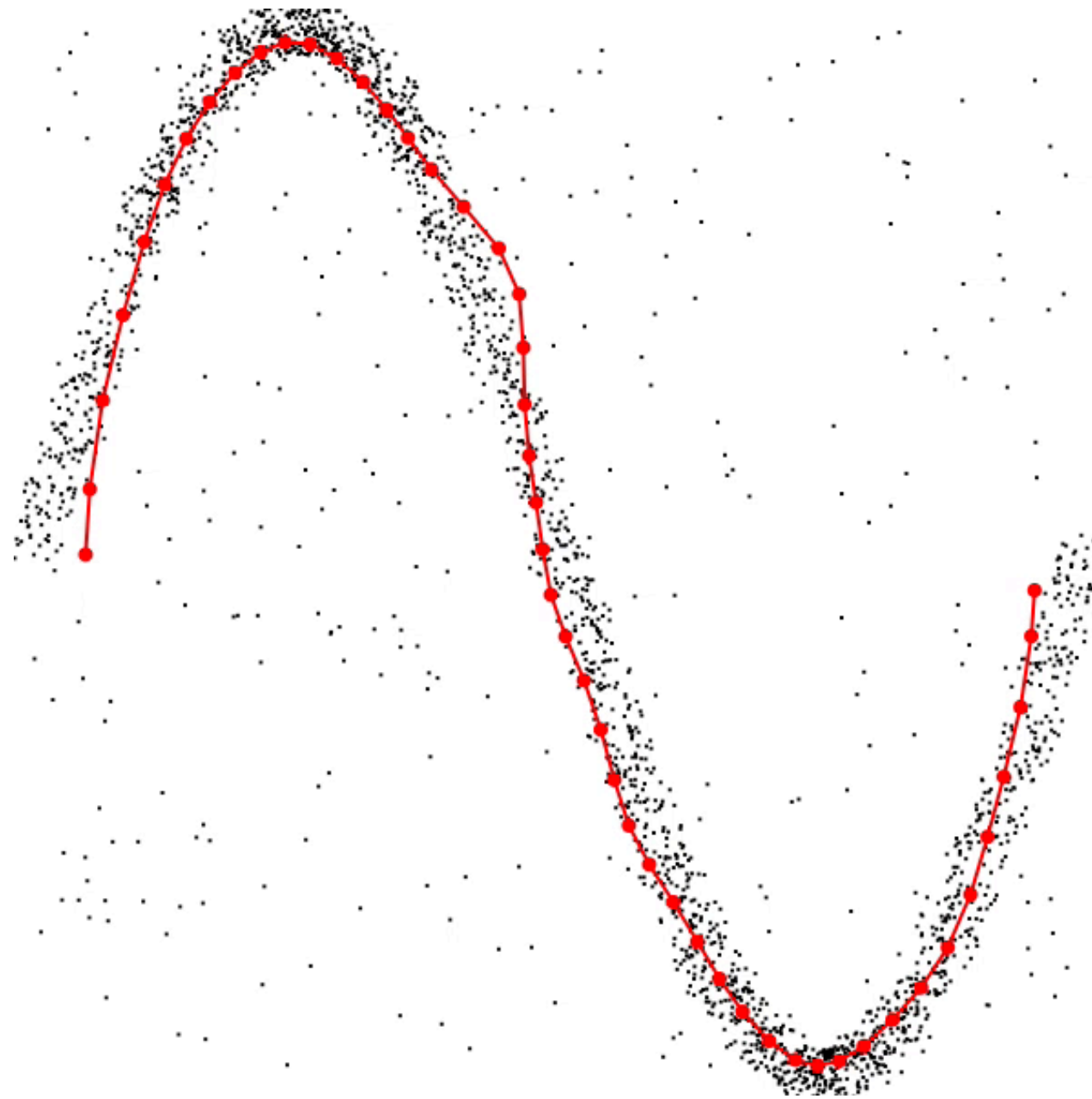
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Self Organizing Maps

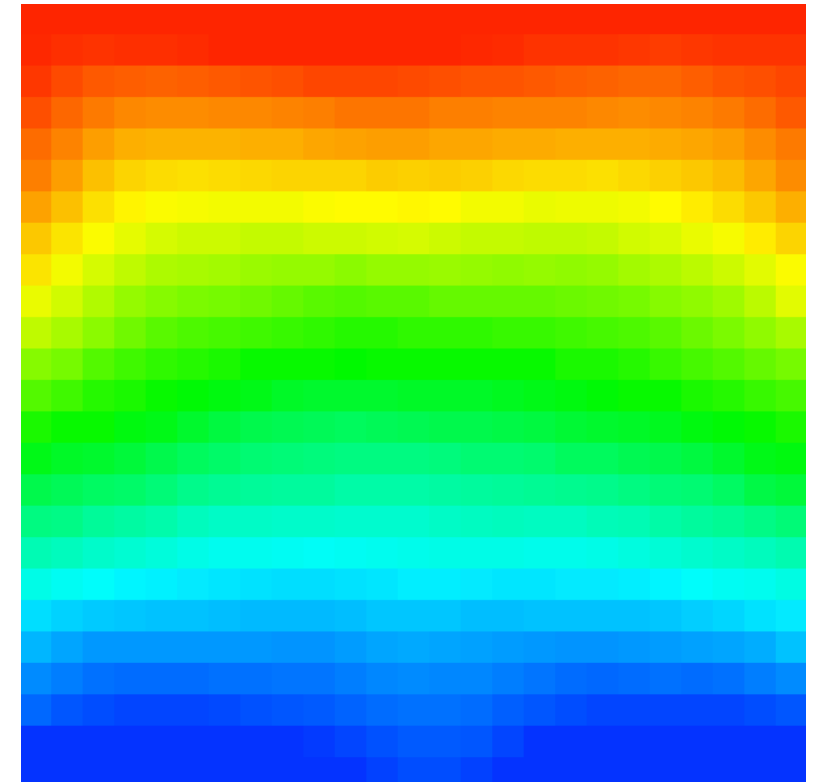
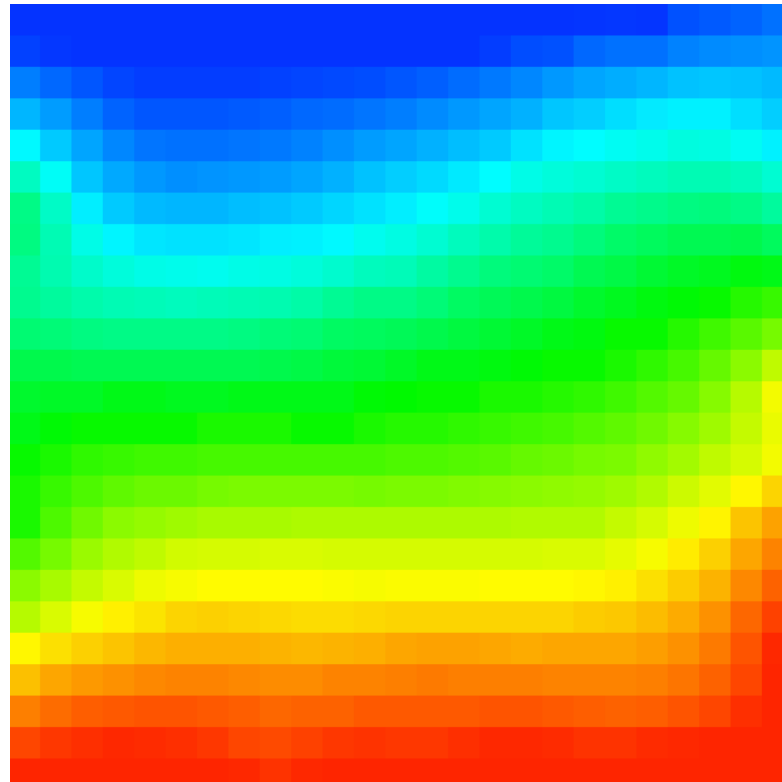
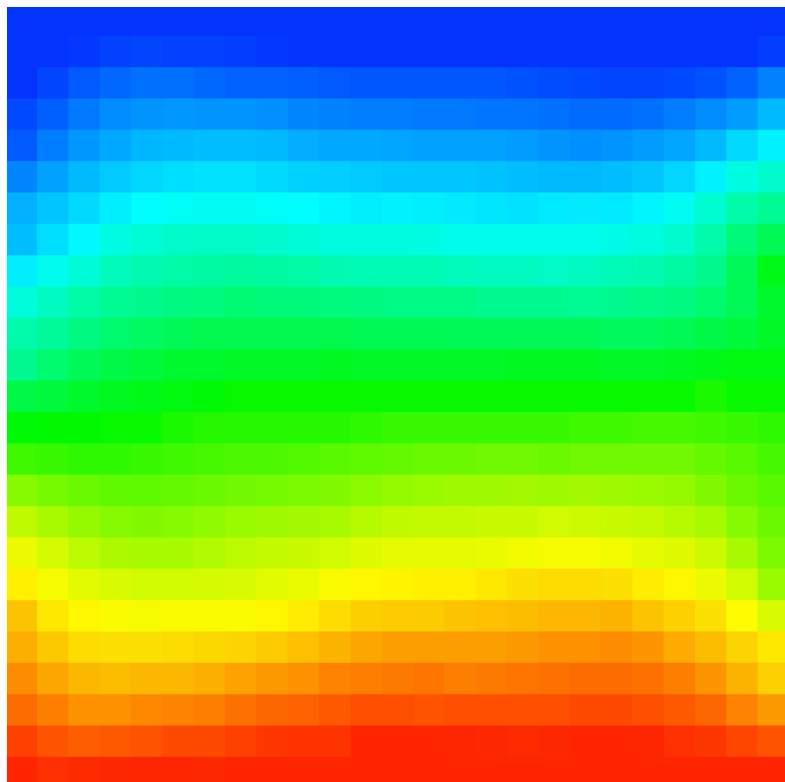
Self Organizing Maps...

... Reduce Dimensionality while preserving Topology



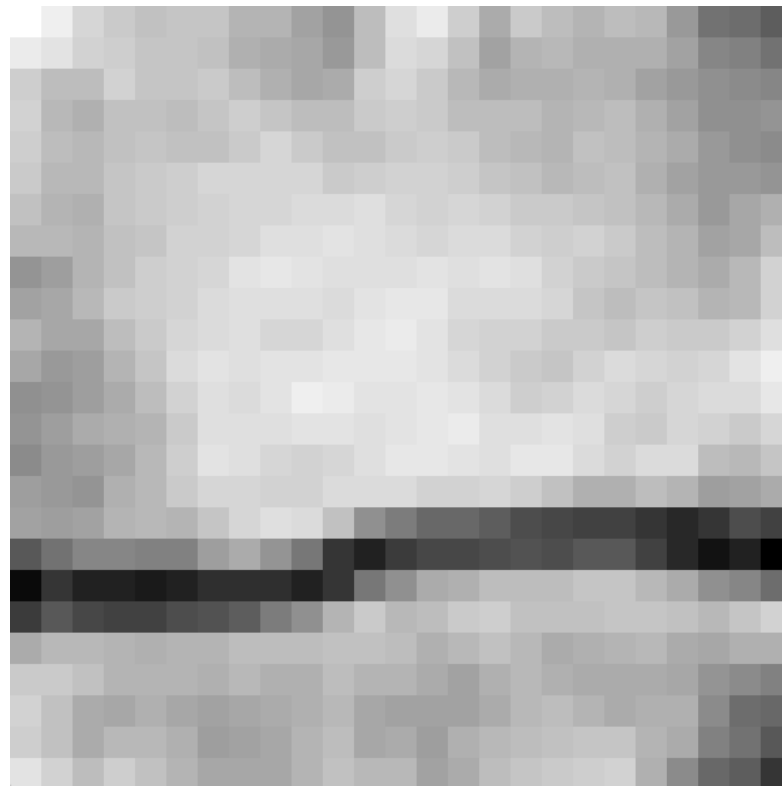
Component Planes...

... reveal related and opposed features



Distances between Nodes...

... show cluster boundaries



A Recommendation System using Self Organizing Maps

Training a SOM with a Dataset of Movie Ratings

- MovieLens Dataset containing ratings and genres of movies
- Three Experiments:
 - Map of movies based on ratings by users
 - Map of users based on ratings of movies
 - Map of movies based on membership to genres

Expected Results

- SOM will group similar movies / users together
- Personal suggestions for users can be found
- Genres can be analysed

Future Work

This is the first week of the proseminar, so not much has been done

SOM has already been implemented (and you have seen it in action)

- Dataset needs to be converted into a set of vectors
- Different experiments need to be conducted
- Results need to be evaluated

One More Thing...

Traveling Salesman Problem

