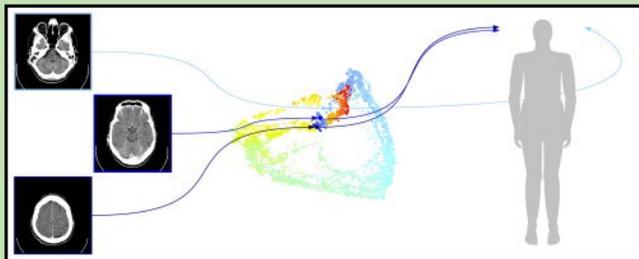


Data Driven Modeling & Analysis

- Mathematical modeling of high-dimensional datasets
- Time series analysis using multi-scale regression methods

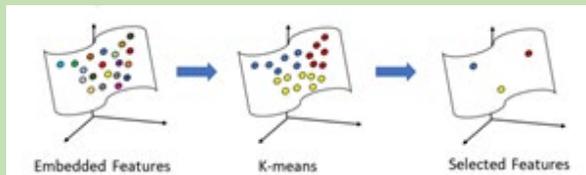
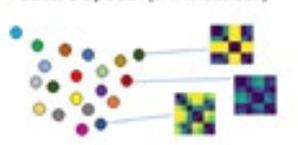
Nonlinear Data Reduction

- Location prediction of CT slide scans using manifold learning techniques



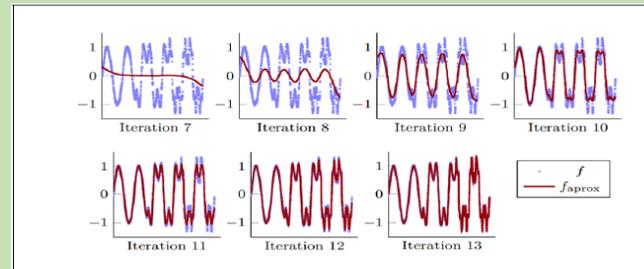
Graph-based feature selection

Feature Space (JM matrices)

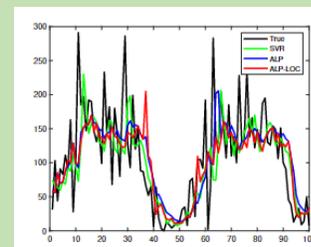


Multiscale Iterative regressions

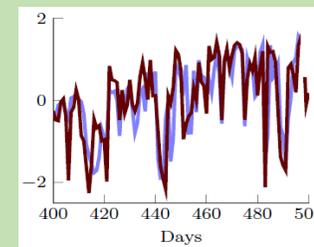
- Completion of missing data entries
- Tensor-based modeling



- Prediction of medical and financial time-series



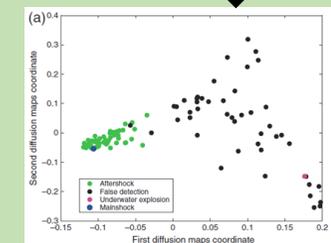
Num. of infections



Electricity prices

Machine-learning & signal processing

- Classification of seismic events



- EMG Classification of hand movements

