

Application fields

Bioinformatic

Metabolomics
Pathology
Microarray analysis

Physics

Invariant theory
Quantum states

Signal processing

sensor array processing in wireless communication
Blind source separation Audio source separation

CMU Arctic speech database

Psychology

Psychometrics

Web mining

Chatroom communications arranged as a three-way array
email analysis **Enron email dataset**
Analyze hyperlink graphs based on the anchor text of the hyperlinks between webpages
Anomaly detection in network traffic
Multiway latent semantic indexing
Netflix collaborative filtering challenge of predicting users ratings of movies

www.netflixprize.com

Chemistry

Analysis of fluorescence spectroscopy
Chromatography
Flow injection analysis

Computer vision

Images

Facial expression recognition

Weizmann face database
JAFFE database
Cohn-Kanade dataset

Complete missing entries
Object recognition
Regularized image deblurring problem

Video

Text mining

Analyze matrices of semantic-syntactic valences of words

Social networks

Neuroscience

Multichannel electroencephalogram (EEG)
functional magnetic resonance imaging (fMRI)