

Computational analysis of biological structures and networks
Workshop on “Kernel methods in Medical Bioinformatics”
Assigned papers (last update 12-6-2020)

Bioinformatics, 16(9) pp. 799–807, (2000)	Engineering support vector machine kernels that recognize translation initiation sites
Bioinformatics, 21(15)pp 3241–3247 (2005)	Semi-supervised protein classification using cluster kernels
BMC Bioinformatics 2010, 11(Suppl 1):S17	Amino acid classification based spectrum kernel fusion for protein subnuclear localization
BMC Bioinformatics (2019) 20:426	Multiple-kernel learning for genomic data mining and prediction
BMC Bioinformatics 15: 137 (2014)	New bandwidth selection criterion for Kernel PCA: Approach to dimensionality reduction and classification problems
BMC Bioinformatics 15: 411 (2014)	Predicting breast cancer using an expression values weighted clinical classifier
BMC Bioinformatics 19: 23 (2018)	Scuba: scalable kernel-based gene prioritization
BioMedical Engineering OnLine 10: 99 (2011)	Quantification and recognition of parkinsonian gait from monocular video imaging using kernel-based principal component analysis
Bioinformatics, 19(15) 2003pp 1964–1971	Sequence alignment kernel for recognition of promoter regions
Artificial Intelligence in Medicine 80 (2017) 1–10	Personal sleep pattern visualization using sequence-based kernel self-organizing map on sound data
BMC Bioinformatics 20: 410 (2019)	HIV drug resistance prediction with weighted categorical kernel functions
BMC Bioinformatics 18: 378 (2017)	A weighted string kernel for protein fold recognition
IJCNN 2008	Kernel Methods for fMRI Pattern Prediction
BMC Bioinformatics 17: 46 (2016)	A multiple kernel learning algorithm for drug-target interaction prediction
Bioinformatics, 2019, 1–10	Multi-kernel linear mixed model with adaptive lasso for prediction analysis on high-dimensional multi-omics data
PLoS ONE 7(11): e48901	A Single Kernel-Based Approach to Extract Drug-Drug Interactions from Biomedical Literature
J. Chem. Inf. Model. 2005, 45, 939-951	Graph Kernels for Molecular Structure-Activity Relationship Analysis with Support Vector Machines
NIPS 2014	Localized Data Fusion for Kernel k-Means Clustering with Application to Cancer Biology
Arti. Int. in Medicine 53 (2011) 83– 95	Kernel machines for epilepsy diagnosis via EEG signal classification: A comparative study
Bioinformatics, Vol. 30, pages i556–i563	Drug susceptibility prediction against a panel of drugs using kernelized Bayesian multitask learning
BMC Bioinformatics 2009, 10(Suppl 4):S7	A kernel-based approach for detecting outliers of high-dimensional biological data

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Netw Model Anal Health Inform Bioinf. (2016) 5:26	Implementation and comparison of kernel-based learning methods to predict metabolic networks
BMC Bioinformatics 2014, 15:318	Metabolic network prediction through pairwise rational kernels
Proteins, 82(9): 2088-2096, (2014)	Feature selection and classification of protein-protein complexes based on their binding affinities using machine learning approaches
BMC Bioinformatics 2014, 15(Suppl 12):S7	An efficient protein complex mining algorithm based on Multistage Kernel Extension
Cancer Inform. 2008;6:1-7	Constructing tumor progression pathways and biomarker discovery with fuzzy kernel kmeans and DNA methylation data.
Bioinformatics, Vol. 30, 20 (2004), pp 1682-1689	Protein homology detection using string alignment kernels
Bioinformatics, 31(22), 2015, 3600-3607	High-order neural networks and kernel methods for peptide-MHC binding prediction
PLoS ONE 14(5): e0217027 2019	Gene shaving using a sensitivity analysis of kernel based machine learning approach, with applications to cancer data
BMC Bioinformatics (2020) 21:155	Heterogeneous multiple kernel learning for breast cancer outcome evaluation