Glossary of Terms / Abbreviations

A

Acc	Geometric Accuracy
AD	Average Distance
AdaBoost	Adaptive Boosting
ADM	Average Distance between Means
AL	Average Link
AP	Affinity Propagation
APN	Average Proportion of Non-overlap
В	
Bagging	Bootstrap AGGregatING
BGENS	Bipartite Graph Ensemble
BHI	Biological Homogeneity Index
BIRCH	Balanced Iterative Reducing and Clustering using Hierarchies
BLAST	Basic Local Alignment Search Tool
BN	Bayesian Network
BOK	Best-of-k
BOM	Best One-element Move
BP	Biological Process
BSI	Biological Stability Index
С	

CART Classification And Regression Tree

CACT	Cluster Affinity Course Technique
CAST	Cluster Affinity Search Technique
CC	Cellular Component
cDNA	complementary Deoxy-Ribonucleic Acid
CFinder	Clique Finder
CGED	Cancer Gene Expression Database
CL	Complete Link
CLARA	Clustering LARge Applications
CLARANS	Clustering Algorithm based on Randomized Search
CLICK	CLuster Identification via Connectivity Kernels
ClusterONE	Cluster Overlapping Neighbourhood Expansion
СМС	Clustering based on Maximum Cliques
CNS	Central Nervous System
COACH	COre-AttaCHment
СРМ	Clique Percolation Method
CSPA	Cluster-based Similarity Partitioning Algorithm
CURE	Clustering Using REpresentatives
D	
DBSCAN	Density-Based Spatial Clustering of Applications with Noise
DECAFF	Dense-neighborhood Extraction using Connectivity And conFidence Features
DENCLUE	DENsity-based CLUstEring
DIANA	DIvisive ANAlysis
DIP	Database of Interacting Proteins
DNA	Deoxy-Ribonucleic Acid
DPClus	Cluster Periphery-tracking

E

EC-BNMF	Ensemble Clustering Bayesian Nonnegative Matrix Factorization
EM	Expectation Maximization
F	
FCM	Fuzzy C-Means
FGENS	Full Graph Ensemble
FOM	Figure Of Merit
Frac	Fraction of pairs
G	
GA	Genetic Algorithms
GENCLUST	GENe CLUSTering
GO	Gene Ontology
GOSemSim	Gene Ontology Semantic Similarity
Н	
HBGF	Hybrid Bipartite Graph Formulation
HGPA	HyperGraphs Partitioning Algorithm
Ι	
IBk	Instance-based classifier
IC	Information Content
К	
kNN	k-Nearest Neighbour

L	
LAC	Locally Adaptive Clustering
Μ	
MCDM	Multiple Criteria Decision Making
MCL	Markov Clustering
MCLA	Meta-CLustering Algorithm
MCODE	Molecular Complex Detection
MEI	mutually exclusive interactions
MF	Molecular Function
MICA	Most Informative Common Ancestor
MIPS	Munich Information Centre for Protein Sequences
MMR	Maximum Matching Ratio
mRNA	messenger Ribo-Nucleic Acid
Ν	
NB	Naïve Bayes
NMF	Ensemble Non-negative Matrix Factorization
NMI	Normalized Mutual Information
Р	
PAM	Partitioning Around Mediods
PCDEN	Protein Complex Detection Ensemble
PPI	Protein-Protein Interaction
PPV	Positive Predictive Value
ProCope	Protein Complex Prediction and Evaluation

R

RNA	Ribo-Nucleic Acid
RNSC	Restricted Neighbourhood Search Clustering
ROCK	RObust Clustering using linKs
RRW	Repeated Random Walk
S	
S3VM	Semi Supervised Support Vector Machine
SAOM	Simulated Annealing One-element Move
SGD	Saccharomyces Genome Database
SL	Single Link
Sn	Sensitivity
SOM	Self Organizing Map
SOTA	Self-Organizing Tree Algorithm
SPC	Super Paramagnetic Clustering
SVM	Support Vector Machine
Т	
tRNA	transfer Ribo-Nucleic Acid
W	
WBPA	Weighty Bipartite Partition Algorithm
WEKA	Waikato Environment for Knowledge Analysis
WPCK	Weighted Partition Consensus via Kernels
WSBPA	Weighted Subspace Bipartite Partitioning Algorithm

List of Notations

X	gene expression matrix, considered to be <i>m</i> x <i>n</i> matrix
x_{ij}	expression value for gene <i>i</i> in condition <i>j</i>
(g_i, g_j)	gene pair (object pair)
$d_{t,j}(x)$	support given by the t^{th} classifier to the j^{th} class for the instance x
W_j	weight of the <i>t</i> th classifier
Т	total number of classifiers
BC_i	the <i>i</i> th base classifier
k	no. of clusters
$sim_{Resnick}$	Resnick semantic similarity
sim_{Lin}	Lin semantic similarity
sim _{Jiang}	Jiang and Conrath semantic similarity
$sim_{Schlicker}$	Schlicker semantic similarity
sim_{Wang}	Wang semantic similarity
G = (V, E)	graph G comprising of vertices V and edges E
deg(v)	degree of vertex v
den(G)	density of graph G
G_{v}	The neighbourhood graph of v
(ni, nj)	pair of nodes (proteins)
P_i	common set of nodes from corresponding complex sets
P_i^{GO}	protein complex set based on GO similarity
P_i^{Com}	protein complex set obtained from common set of nodes
P_i^{Fin}	final protein complex set