

ABBREVIATIONS

DNA	Deoxyribose Nucleic acid
CNS	Central Nervous System
USB	Universal Serial bus
SPRT	Statistical pattern recognition techniques
NCC	Normalized Cross Correlation
MLP	Multi-Layer Perceptron
RBF	Radial Basis Function
RGB	Red Green Blue
LUV	Luminance Model with Uniform Chrominance Components U,V
HSV	Hue Saturation Value
HMMD	Hue-min-max-difference color space
CM	Color Moments
CCV	Color Coherence Vector
DCD	Dominant Color Descriptor
CLD	Color Layout Descriptor
CSD	Color Structure Descriptor
SCD	Scalable Color Descriptor
GLCM	Grey Level Co- occurrence Matrix
MRF	Markov Random Field
SAR	Simultaneous Auto-Regressive mode
FD	Fractal Dimension
FT	Fourier Transform
DCT	Discrete Cosine Transform
OLSR	Ordinary Least Squares Regression
MARS	Multivariate Adaptive Regression Splines

LOESS	Locally Estimated Scatterplot Smoothing
KNN	K-Nearest Neighbour
LVQ	Learning Vector Quantization
SOM	Self-Organizing Map
LWL	Locally Weighted Learning
LASSO	Least Absolute Shrinkage and Selection Operator
LARS	Least-Angle Regression
CART	Classification and Regression Tree
ID3	Iterative Dichotomiser 3
CHAID	Chi-squared Automatic Interaction Detection
AODE	Averaged One-Dependence Estimators
BBN	Bayesian Belief Network
BN	Bayesian Network
EM	Expectation Maximisation
RBFN	Radial Basis Function Network
DBM	Deep Boltzmann Machine
DBN	Deep Belief Networks
CNN	Convolutional Neural Network
PCA	Principal Component Analysis
PCR	Principal Component Regression
PLSR	Partial Least Squares Regression
MDS	Multidimensional Scaling
LDA	Linear Discriminant Analysis
MDA	Mixture Discriminant Analysis
QDA	Quadratic Discriminant Analysis
FDA	Flexible Discriminant Analysis
ASM	Angular Second Moment
SST	Simple Statistical Transformation
TS	Texture Spectrum
CCM	Color Co-occurrence Matrix

HIS	Hue intensity saturation
CIE	International Commission on Illumination
NDI	Normalized Difference Index
HTD	Homogeneous Texture Descriptor
EHD	Edge Histogram Descriptor
PBD	Perceptual Browsing Descriptor
MRI	Magnetic Resonance Imaging
CSS image	Curvature Scale Space
MPEG-7	Moving Picture Expert Group
PSO	Particle Swarm Optimization
MMC	Move Median Center
LPGF	Low-Pass Gaussian Filter
HPGF	High-Pass Gaussian Filter
CT	Computed Tomography
SFFS	Sequential Forward Floating Selection
EM	Expectation Maximisation
MSA	Multiple Sequence Alignments
NH	Nearest Hit
NM	Nearest Miss
IDM	Inverse Differential Moment
LVQ	Linear Vector Quantification
DAN2	Dynamic Architecture for ANN
ASVPV	Angulation between Secondary Veins and Primary Veins
VADSV	Variation in Divergence of Secondary Veins
SVM	Support Vector Machines
MA	Mean Angle
MDM-A	Average Multidimensional Distance Matrix
FLAVIA	Swedish Leaf Image Dataset
SLID	Survey of Labor and Income Dynamics Dataset

NCS-FFNN	Normalized Cubic Spline-Feed Forward Neural Network
DCT	Discrete Cosine Transform
ROI	Region of Interest
FKNN	Fuzzy K-Nearest Neighbor
CASIA-IrisV3	Chinese Academy of Sciences Iris DatasetV3
MDM	Multi-scale Distance Matrix
LDC	Linear discriminant Classifier
NFC	Neuro-Fuzzy Controller
MLP	Multi-Layered Perceptron
GTFD	Gabor Texture Feature Dataset
CSV	Comma Separated Values
OOB	Out Of Bag
VIMP	Variable Importance
RF	Random Forest
UCI	University of California, Irvine
R TM	R sensor (Trade Mark of Sony)
TFD	Texture Feature Dataset
TFDD	Texture Feature Dataset for Dorsal side
TFDV	Texture Feature Dataset for Ventral side
TFDDV	Texture Feature Dataset for Dorsal-Ventral combined
ITDD	Image Texture Dorsal Dataset
ITVD	Image Texture Ventral Dataset
CITDVD	Combined Image Texture Dorsal-Ventral Dataset
ISDD	Image Statistical Dorsal Dataset
ISVD	Image Statistical Ventral Dataset
CISDVD	Image Statistical Dorsal-Ventral Dataset

N-S	North-South
E-W	East-West
ITDD	Image Texture Dorsal Dataset
ITVD	Image Texture Ventral Dataset
CIITDVD	Combined Image Texture Dorsal-Ventral Dataset
AR	Auto Regression
SFD	Statistical Feature Dataset
ISDD	Image Statistical Dorsal Dataset
ISVD	Image Statistical Ventral Dataset
CIISDVD	Combined Image Statistical Dorsal-Ventral Dataset
HC	Hill Climbing
CFS	Correlation Based Feature Selection
BFS	Best First Search
PLS	Partial Least Square
PSO	Particle Swarm Optimization
PSO-CFS	Particle Swarm Optimization –Correlation Based Feature Selection
PDFS	PSO based Dorsal Feature Subset
PVFS	PSO based Ventral Feature Subset
PNN	Probabilistic Neural Network