

Abbreviations

AA-PLDA	adversarial augmentation PLDA
AAE	adversarial autoencoder
AC-GAN	auxiliary classifier GAN
AEVB	autoencoding variational Bayes
AfV	audio from video
AM-PLDA	adversarial manifold PLDA
CD	contrastive divergence
CNN	convolutional neural network
CTS	conversational telephone speech
DA	domain adaptation
DAE	denoising autoencoder
DBM	deep Boltzmann machine
DBN	deep belief network
DCF	decision cost function
DET	detection error tradeoff
DICN	dataset-invariant covariance normalization
DNN	deep neural network
EER	equal error rate
ELBO	evidence lower bound
EM	expectation-maximization
FA	factor analysis
FAR	false acceptance rate
FFT	fast Fourier transform
FRR	false rejection rate
GAN	generative adversarial network
GMM	Gaussian mixture model
HMM	hidden Markov model
IDVC	inter-dataset variability compensation
JFA	joint factor analysis
JS	Jensen–Shannon
KL	Kullback–Leibler
LSTM	long short-term memory
MAP	maximum <i>a posteriori</i>

MCMC	Markov chain Monte Carlo
MFCC	mel-frequency cepstral coefficient
ML	maximum likelihood
MLP	multilayer perceptron
MMD	maximum mean discrepancy
NAP	nuisance attribute projection
NDA	nonparametric discriminant analysis
NIST	National Institute of Standards and Technology
PCA	principal component analysis
PLDA	probabilistic linear discriminant analysis
RBF	radial basis function
RBM	restricted Boltzmann machine
RKHS	reproducing kernel Hilbert space
ReLU	rectified linear unit
SD-mPLDA	SNR-dependent mixture of PLDA
SDI-PLDA	SNR- and duration-invariant PLDA
SI-mPLDA	SNR-independent mixture of PLDA
SGD	stochastic gradient descent
SGVB	stochastic gradient variational Bayes
SNE	stochastic neighbor embedding
SRE	speaker recognition evaluation
SVDA	support vector discriminant analysis
SVM	support vector machine
t -SNE	t -distributed stochastic neighbor embedding
UBM	universal background model
VDANN	variational domain adversarial neural network
VAE	variational autoencoder
VB	variational Bayesian
VB-EM	variational Bayesian expectation-maximization
VM-PLDA	variational manifold PLDA
WCC	within-class covariance correction
WCCN	within-class covariance normalization