GLOSSARY OF TERMS

Acc   *Accuracy*

AdaBoost   *Adaptive Boosting*

AI   *Artificial Intelligence*

APs   *Access Points*

ATO   *Automatic Train Operation*

ATP   *Automatic Train Protection*

ATS   *Automatic Train Supervision*

CBI   *Computer-based Interlocking*

CBTC   *Communications Based Train Control*

CART   *Classification and Regression Trees*

CIA   *Confidentiality, Integrity, Availability*

CNN   *Convolutional Neural Network*

DBSCAN   *Density-Based Spatial Clustering of Applications with Noise*

DCS   *Data Communication System*

Eclat   *Equivalence Class Clustering and Bottom-Up Lattice Traversal*

FP   *False Positive*

FN   *False Negative*

GSM-R   *Global System for Mobile Communications - Railway*

ICT   *Information and Communication Technology*

ICSs   *Industrial Control Systems*

IDS   *Intrusion Detection System*

ID3   *Iterative Dichotomiser 3*

ITS   *Intelligent Transport Systems*

IoT   *Internet of Things*

Fit   *Just-Right-Fit*

LASSO   *Least Absolute Shrinkage and Selection Operator*

LDA   *Linear Discriminant Analysis*

LMA   *Limits of Movement Authority*

LTE-R	*Long Term Evolution - Railway*
LVQ	*Learning Vector Quantization*
LightGBM	*Light Gradient Boosting Machine*
MDS	*Misbehavior Detection Systems*
ML	*Machine Learning*
MitM	*Man-in-the-Middle*
OCC	*Operation Control Center*
PCA	*Principal Component Analysis*
Pre	*Precision*
Rec	*Recall*
RBFN	*Radial Basis Function Network*
RF	*Random Forest*
SMOTE	*Synthetic Minority Over-sampling Technique*
SOM	*Self-Organizing Map*
SVM	*Support Vector Machine*
TP	*True Positive*
TN	*True Negative*
TSMSet	*Trian Status Message Dataset*
T2G	*Train-to-Ground Communication*
T2T	*Train-to-Train Communication*
VOBC	*Vehicle On-Board Controller/Computer*
V2I	*Vehicle-to-Infrastructure Communication*
V2V	*Vehicle-to-Vehicle Communication*
XGBoost	*Extreme Gradient Boosting*
WiFi	*Wireless Fidelity*
WOMSet	*Wayside Operational Message Dataset*
WSU	*Wayside Unit*
W2T	*Wayside-to-Train*
kNN	*k-Nearest Neighbours*