

## GLOSSARY OF TERMS

<i>Acc</i>	<i>Accuracy</i>
<i>AdaBoost</i>	<i>Adaptive Boosting</i>
<i>AI</i>	<i>Artificial Intelligence</i>
<i>APs</i>	<i>Access Points</i>
<i>ATO</i>	<i>Automatic Train Operation</i>
<i>ATP</i>	<i>Automatic Train Protection</i>
<i>ATS</i>	<i>Automatic Train Supervision</i>
<i>CBI</i>	<i>Computer-based Interlocking</i>
<i>CBTC</i>	<i>Communications Based Train Control</i>
<i>CART</i>	<i>Classification and Regression Trees</i>
<i>CIA</i>	<i>Confidentiality, Integrity, Availability</i>
<i>CNN</i>	<i>Convolutional Neural Network</i>
<i>DBSCAN</i>	<i>Density-Based Spatial Clustering of Applications with Noise</i>
<i>DCS</i>	<i>Data Communication System</i>
<i>Eclat</i>	<i>Equivalence Class Clustering and Bottom-Up Lattice Traversal</i>
<i>FP</i>	<i>False Positive</i>
<i>FN</i>	<i>False Negative</i>
<i>GSM-R</i>	<i>Global System for Mobile Communications - Railway</i>
<i>ICT</i>	<i>Information and Communication Technology</i>
<i>ICSs</i>	<i>Industrial Control Systems</i>
<i>IDS</i>	<i>Intrusion Detection System</i>
<i>ID3</i>	<i>Iterative Dichotomiser 3</i>
<i>ITS</i>	<i>Intelligent Transport Systems</i>
<i>IoT</i>	<i>Internet of Things</i>
<i>Fit</i>	<i>Just-Right-Fit</i>
<i>LASSO</i>	<i>Least Absolute Shrinkage and Selection Operator</i>
<i>LDA</i>	<i>Linear Discriminant Analysis</i>
<i>LMA</i>	<i>Limits of Movement Authority</i>

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