

## LIST OF ABBREVIATIONS

ANN	: Artificial Neural Network
ASIL	: Automotive Safety Integrity Level
AU	: Application Unit
AUTOSAR	: Automotive Open System Architecture
BSM	: Basic Safety Messages
BurST-	: Burwood SUMO Traffic – Australian Dataset for Misbehaviour Detection in
ADMA	the Internet of Vehicles
C-ITS	: Cooperative Intelligent Transport Systems
CAN	: Controller Area Network
CNN	: Convolutional Neural Networks
CV	: Cross-Validation
DBN	: Deep Belief Network
DoS	: Denial of Services
DDoS	: Distributed Denial of Services
DL	: Deep Learning
DR	: Dimensionality Reduction
DSRC	: Dedicated Short-Range Communications
ECU	: Engine Control Unit
FCC	: Federal Communications Commission
FTCAN	: Fault-Tolerant CAN
HSCAN	: High-Speed CAN
MDS	: Misbehaviour Detection System
IEEE	: Institute of Electrical and Electronics Engineers
IoV	: Internet of Vehicle
IVN	: In-vehicle networking
KNN	: K-Nearest Neighbors

LIN	: Local Interconnected Network
LSTM	: Long Short-Term Memory
MAGRU	: Multi-Head Attention-Based Gated Recurrent Unit
MISRA	: Motor Industry Software Reliability Association
MITM	: Man in the Middle
ML	: Machine Learning
MLMDS	: Machine Learning-based MDS
MLP	: Multilayer Perception
MOST	: Media Oriented System Transport
NaN	: Not a Number
NN	: Neural Networks
OBU	: On-Board Unit
OHE	: One Hot Encoding
OSEK	: Offene Systeme und deren Schnittstellen für die Elektronik in Kraftfahrzeugen
RSU	: Roadside Unit
TA	: Trusted Authority
TN	: True Negatives
TP	: True Positives
TPD	: Tamper-Proof Device
SUMO	: Simulation of Urban Mobility
V2I	: Vehicle-to-Infrastructure
V2N	: Vehicle-to-Network
V2P	: Vehicle-to-Pedestrian
V2V	: Vehicle-to-Vehicle
V2X	: Vehicle-to-Everything
VANET	: Vehicular Ad-Hoc Network
WAVE	: Wireless Access in Vehicular Environments
WHO	: World Health Organization
WP	: Work Packages
XSS	: Cross Site Scripting