

## LIST OF ABBREVIATION

3GPP	: 3rd Generation Partnership Project
6G	: Sixth generation
AI	: Artificial intelligence
AM	: Adaptive modulation
BER	: Bit error rate
BP	: Belief propagation
BS	: Base station
CND	: Check-nodes
CSI	: Channel state information
DE	: Density evolution
ECC	: Error correction codes
EMS	: Emergency management systems
ERLLC	: Extremely reliable and low latency communications
EXIT	: Extrinsic information transfer
feMBB	: Further-enhanced mobile broadband
FER	: Frame error rate
GNN	: Graph neural network
KNN	: K-nearest neighbors
LOS	: Line-of-sight
LLR	: Log like-lihood ratio
MCRBS	: Mobile cognitive radio base station
MDP	: Markov decision process
MI	: Mutual information
ML	: Machine learning
NN	: Neural network
NND	: Neural network decoder
NR	: New radio
PCM	: Parity check matrix
QC-LDPC	: Quasi-cyclic low-density parity-check
RL	: Reinforcement learning
SER	: Sign error rate
SGD	: Stochastic gradient descent
SNR	: Signal to Noise Power Ratio
SP	: Sum product
TL	: Transfer learning
UAV	: Unmanned aerial vehicle
VND	: Variable-nodes