

## **List of Abbreviations**

**ADC** Analog to Digital Converter/Conversion

**AOA** Angle of Arrival

**AWGN** Additive White Gaussian Noise

**BS** Base Station

**CSI** Channel State Information

**DAC** Digital to Analog Converter/Conversion

**DFT** Discrete Fourier Transform

**DLA** Discrete Lens Array

**DMUX** Demultiplexer

**IA** Interference Aware

**IMT** International Mobile Telecommunication

**LMDS** Local Multipoint Distribution Service

**LoS** Line of Sight

**LTE** Long Term Evolution

**MC** Maximizing the Capacity

**MIMO** Multi-Input-Multi-Output

**MM** Maximum Magnitude

**MMSE** Minimum Mean Squared Error

**M-SINR** Maximizing the Signal-to-Interference-Plus-Noise Ration

**MUI** Multi-User Interference

**MU-MIMO** Multi-User Multi-Input-Multi-Output

**MU-MIMO-NOMA** Multi-User Multi-Input-Multi-Output Non-Orthogonal Multiple Access

**MUX** Multiplexer

**MWM** Maximum Weight Matching

**NIU** Non-Interference User

**NLoS** Non-Line of Sight

**NOMA** Non-Orthogonal Multiple Access

**RF** Radio Frequency

**SIC** Successive Interference Cancellation

**SINR** Signal-to-Interference-Plus-Noise Ratio

**SNR** Signal-to-Noise Ratio

**SVD** Singular Value Decomposition

**UDN** Ultra Dense Network

**ULA** Uniform Linear Array

**UMB** Ultra Mobile Broadband

**ZF** Zero Forcing