

## LIST OF NOTATIONS

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| TWR  | : Through the Wall Radar               |
| SISO | : Single Input Single Output           |
| MIMO | : Multiple Input Multiple Output       |
| FDTD | : Finite Difference Time Domain        |
| UWB  | : Ultra Wide Bandwidth                 |
| SIAR | : Synthetic Impulse and Aperture Radar |
| CFAR | : Constant False Alarm Rate            |
| LNA  | : Low Noise Amplifier                  |
| AF   | : Array Factor                         |
| PML  | : Perfectly Matched Layer              |
| VRP  | : Vertical Radar Profiling             |
| TM   | : Transverse Magnetic                  |
| TE   | : Transverse Electric                  |