

Recent Advances in Conformal Transmitarrays

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Abstract

For many wireless communication platforms, such as aircrafts and unmanned aerial vehicles (UAV), conformal transmitarray antennas, which are designed to follow the shapes of the platforms, are highly desired as they can achieve high gains, flexible radiation patterns and excellent aerodynamic performance. This talk will give an overview of research on conformal transmitarrays conducted in University of Technology Sydney, Australia. More specifically, it includes our latest progress in high efficiency conformal transmitarrays and multi-beam conformal transmitarrays.