Abstract

Antennas, so far a neglected component in wireless mobile communications, have gained a renewed interest among researchers. In the form of "smart antennas" or "adaptive array antennas", they meet the challenging demand and bring many benefits to the wireless communications services. Until now, the investigation of smart antennas suitable for wireless communication systems has involved primarily uniform linear
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arrays (ULA). Different algorithms have been proposed for the estimation of the direction of arrivals (DOAs) of signals arriving to the array and several adaptive techniques have been examined for the shaping of the radiation pattern under different constraints imposed by the wireless environment. Smart antennas so far, little attention has been paid to other array topologies. In this, the performance of different types of uniform array configuration like circular, planar and planar circular have been analyzed and compared for the estimation of direction of arrival of the signal.

References

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Index Terms

Computer Science
Circuits And Systems

Keywords

Smart Antenna  Direction Of Arrival (doa)  Uniform Linear Array (ula)  Uniform Circular Array (uca)