

Special Issue on Active Antennas for Space Applications

Call for Papers

Over the last years, many journal articles appeared on the principles, analysis, and design of active and active integrated antennas (AAs and AIAs). An AA is a single system comprising both a radiating element and one or more active components which are tightly integrated. This gives clear advantages in terms of costs, dimensions, and efficiency. In the case of an AIA, both the active device and the radiator are integrated on the same substrate. Both options lead to very compact, low-loss, flexible antennas, and this is very important especially at high frequencies, such as those typical of a satellite link. As microwave integrated-circuit and the microwave monolithic integrated-circuit technologies have ripened, AA and AIA applications have become more and more interesting, not only at a scientific level but also from a commercial point of view, up to the point that they have recently been applied to phased array antennas on board moving vehicles for satellite broadband communication systems.

The goal of this special issue is to present the most recent developments and researches in this field, with particular attention to space-borne applications, as well as to enhance the state of the art and show how AAs and AIAs can meet the challenge of the XXI century telecommunications applications.

Topics of interest include, but are not limited to:

- Active (integrated) antenna design, analysis, and simulation techniques
- Active (integrated) antenna applications in arrays, retrodirective arrays and discrete lenses
- Millimeter-wave active (integrated) antennas

Authors should follow International Journal of Antennas and Propagation manuscript format described at the journal site <http://www.hindawi.com/journals/ijap/>. Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System at <http://mts.hindawi.com/>, according to the following timetable:

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