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Millimeter waves in bioelectromagnetics and body-centric applications

Millimeter-wave technologies are considered as very promising for 5G short range communications as well as for body-centric applications including wireless sensors networks and wireless body area networks. The corresponding new usages and services will involve near-field interaction of radiating devices with the human body, both in terms of body impact on wireless device performance as well as in terms of user exposure. This presentation will provide an overview of main features and recent advances in the field of millimeter-wave technologies for biomedical electromagnetics from on-body antennas and propagation for body-centric communications to tissue-equivalent models, characterization, and advanced exposure systems for in vitro and in vivo studies.

type of presentation

invited

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