A Digital Beamforming Antenna for Mobile Communications

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Abstract

The paper reports on the work in the field of digital beamforming antennas, currently carried out by the University of Hannover, the Technische Universitaet Muenchen and the DLR in Wessling, Germany. The objectives of our work are the investigation and evaluation of digital beamforming concepts and the proof of the feasability and potential performance of digital beamforming technology by realisation of a demonstration system suitable for the reception of LEO-satellite signals. During the implementation phase a fully adaptive planar array is currently under construction. The work is supported by the DLR in Bonn, Germany.

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