

Correlation Analysis in On-Body Communications

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Abstract:

When researching on possible spatial diversity and spatial multiplexing techniques for Body Area Networks, the spatial correlation among on-body links should be considered. This work studies the spatial correlation between on-body links for a given BAN, at 2.45 GHz, considering the antennas at different distances from the body. The study is based on simulations with human voxel models. A statistical analysis of the results is performed.