



Published Physics-based Wireless ... (Hans Hal...)

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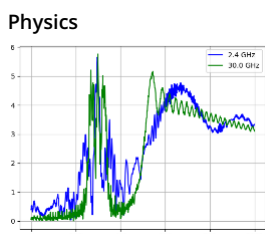
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Physics-based Wireless Channel Model with Fresnel Diffraction

Hans Hallen, Ziad Ali, Alexandra Duel-Hallen

Control, perform and graph mmWave (5G, 6G, or other frequency) Fresnel calculations to get physically realistic channel strength as a function of frequency and position along a user-defined path. Reflectors, etc. can move in position and angle; transmitter shadowing is supported; routines to help random placement in space or to simulate a rough reflector. Edit MMWaveController.py as comments suggest to investigate.

Capsule

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