European Association on Antennas and Propagation

Gdańsk University of Technology
Faculty of Electronics, Telecommunications and Informatics
Department of Radio Communication Systems and Networks

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Research Topics:
Mobile and fixed field-strength measurements
Mobile and fixed spectrum monitoring
Propagation models for outdoor environments
Radio wave propagation for aerospace systems
Radio wave propagation for maritime systems
Impulse response of radio channels up to 26 GHz
Multipath propagation and radio wave polarization
Radio wave propagation for Body Area Networks
Radio wave propagation for wireless systems for threats monitoring and public security

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Research Topics:
Deterministic propagation modelling in indoor spaces for the domains of amplitude, time and angle
Digital modelling of specific, untypical environments.
Modelling and measuring propagation:

- in copper and coal mines
- in reverberation chambers
- in anechoic and semi-anechoic chambers

The 2D and 3D modelling of realistic irregular surfaces (incl. local diffraction and scattering)
HPM pulses propagation in complex urban environments
Digital Audio Broadcasting (DAB+) systems modelling (system and propagation level)
Electromagnetic compatibility in narrowband IoT and wireless sensor radio interfaces

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Faculty of Electronics
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Research Topics:
Doppler effects measurement and modeling
Channel and propagation modeling and simulation
Multipath channel models for outdoor environments
Measurements of the channel characteristics
Channel sounding and estimation
Measurements and modeling for:

- cellular and ad-hoc networks (outdoor)
- vehicle-to-X communications
- mm-Wave communication

MIMO channel modeling, measurement, characterization