

Publications

Article

Bridging the sim-to-real gap in RF localization with large-scale synthetic pretraining

Armen Manukyan, Rafayel Mkrtchyan, Ararat Saribekyan, Theofanis P. Raptis, Hrant Khachatrian

Information Fusion 2026 104104

<https://www.scopus.com/pages/publications/105026611337?origin=resultslist>

Article

Fusion of pervasive RF data with spatial images via vision transformers for enhanced mapping in smart cities

Rafayel Mkrtchyan, Armen Manukyan, Hrant Khachatrian, Theofanis P. Raptis

Pervasive and Mobile Computing 2026 102261

<https://doi.org/10.1016/j.pmcj.2026.102261>

Article

Deep learning with synthetic data for wireless NLOS positioning with a single base station

Hrant Khachatrian, Rafayel Mkrtchyan, Theofanis P. Raptis

Ad Hoc Networks 2025 103696

Article

Vision Transformers for Efficient Indoor Pathloss Radio Map Prediction

Rafayel Mkrtchyan, Edvard Ghukasyan, Khoren Petrosyan, Hrant Khachatrian, Theofanis P. Raptis

Electronics 2025 1905

Article

On improper interval colorings of complete multipartite graphs

Rafayel Mkrtchyan

Discrete Mathematics Algorithms and Applications 2024 2450036
