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Center for Mathematical and Applied Research
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📖 Publications

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 (Switzerland) 2025 1905

Article
Datasets Construction and Development of QSAR Models for Predicting Micronucleus In Vitro and In Vivo Assay Outcomes
Lusine Khondkaryan, Ani Tevosyan, Hayk Navasardyan, Hrant Khachatrian, Gohar Tadevosyan,

Lilit Apresyan, Gayane Chilingaryan, Zaven Navoyan, Helga Stopper, Nelly Babayan

Toxics 2023 785

Article
Improving VAE based molecular representations for compound property prediction
Ani Tevosyan, Lusine Khondkaryan, Hrant Khachatrian, Gohar Tadevosyan, Lilit Apresyan,

Nelly Babayan, Helga Stopper, Zaven Navoyan

Journal of Cheminformatics 2022 69

Article
Deep Semi-Supervised Image Classification Algorithms: a Survey
Ani Vanyan, Hrant Khachatrian

Journal of Universal Computer Science 2021 1390 - 1407

Article
Some bounds on the number of colors in interval and cyclic interval edge colorings of graphs
Petros A. Petrosyan, Carl Johan Casselgren, Hrant H. Khachatrian

Discrete Mathematics 2018 627-637

https://www.sciencedirect.com/science/article/pii/S0012365X17303837

Article
Further results on the deficiency of graphs
P.A. Petrosyan, H.H. Khachatrian

Discrete Applied Mathematics 2017 117-126

https://www.journals.elsevier.com/discrete-applied-mathematics/

Conference
Interval edge colorings of Hamming graphs

Petros Petrosyan, Hrant Khachatrian

On Interval Edge-Colorings of Bipartite Graphs
Petros Petrosyan, Hrant Khachatrian, Tigran Mamikonyan

On Interval Edge-Colorings of Bipartite Graphs
Petros Petrosyan, Hrant Khachatrian, Tigran Mamikonyan