NIMA IMANI

ABOUT ME

I received a B.Sc. degree in Electrical Engineering in 2016 and an M.Sc. degree in Electrical Engineering (Telecommunication Engineering) in 2020 respectively from Mohaghegh Ardabili University and the University of Tabriz. During my studies, I spent two years as a research assistant and published several academic papers in the field of Energy Efficiency, and Power Allocation Models and mmwave channel modeling.
Currently, I work as a research assistant at mohaghegh ardabili university and work on new deterministic channel models for 5g and 6g applications.

CONTACT

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EDUCATION

Mohaghegh ardabili university
2012 - 2016
Bachelor of Science in Electrical Engineering
University of Tabriz
2017 - 2020
Master of Science in Electrical Engineering-Telecommunications
GPA:3.35/4
Rank:3/20

JOURNAL PAPERS

1. N.Imani, A.S. Gharagezlou, M.Nangir, Energy efficient power allocation in MIMO relaying systems with the MRT precoding, **International Journal of Communication Systems**, 2022.
2. N.Imani, A.S. Gharagezlou, M.Nangir, Antenna Selection and Power Allocation for the Massive MIMO Systems with Imperfect CSI and the MRT Precoding, **ISA Transactions**, 2022.
3. A.S. Gharagezlou, N.Imani, M.Nangir, Secure Optimized Power Allocation in Massive MIMO Systems with an Eavesdropper under Imperfect CSI, **Physical Communication**, 2022.(Will Be Submitted in Aug,2022)
4. A.S. Gharagezlou, M.Nangir, N.Imani, Energy Efficient Power Allocation with Joint Antenna and User Selection in Massive MIMO Systems, **Computer Networks** , 2022.(Will Be Submitted in Aug,2022)
5. A.S. Gharagezlou, M.Nangir, N.Imani, Selection antennas and power allocation in massive MIMO with cell division method for MRT and ZF precoding and imperfect CSI, **IEEE Transactions on Communications**, 2022.

CONFERENCE PAPERS

1. M. Nangir, A. Sakhaei Gharagezlou and N. Imani, "Energy Efficient Power Allocation in MIMO-NOMA Systems with ZF Receiver Beamforming in Multiple Clusters," 2021 11th International Conference on Computer Engineering and Knowledge (ICCKE), 2021, pp. 346-351.
2. Gharagezlou, A.S., Nangir, M., Imani, N., Mirhosseini, E. (2022). Energy Efficient Power Allocation in Massive MIMO Systems with Power Limited Users. In: Ma, M. (eds) Proceedings of the 4th International Conference on Telecommunications and Communication Engineering. ICTCE 2020.
3. Nangir, Mahdi and Sakhaei Gharagezlou, Abdolrasoul and Imani, Nima,1400,Energy Efficient Power Allocation in Massive MIMO Systems with Mismatch Channel Estimation Error,5th Iranian Conference on Communications Engineering (ICCE 2021)
4. A. S. Gharagezlou, M. Nangir, N. Imani and A. P. Liqvan, "Secrecy Sum Rate Analysis and Power Allocation with OSTBC and Artificial Noise for MIMO Systems," 2022 30th International Conference on Electrical Engineering (ICEE), 2022, pp. 134-138.
5. M. Nangir, A. S. Gharagezlou and N. Imani, "Comparison of the MRT and ZF Precoding in Massive MIMO Systems from Energy Efficiency Viewpoint," 2022 30th International Conference on Electrical Engineering (ICEE), 2022, pp. 803-807.

CURRENCT RESEARCH WORKS

1.Energy Efficient Power Allocation in Massive MIMO Systems by Using Lower Bound Of User Data Rate
2.Millimeter wave Channel modeling for 5g and 6g applications For Massive MIMO Systems in Indoor Applications.
3.Novel Deterministic Pathloss Models for 5g and 6g applications for complex scenarios.
4.Semi Blinded Channel Estimation for MIMO M2M Application in indoor Environments

MASTER OF SCIENCE THESIS TITLE

Modeling The Path Loss and Propagation Channel for mmWave MIMO (5G) Communications in indoor Environments

OTHER CERTIFICATES

TOEFL IBT-Score:95
Speaking:23, Writing:21, Listening:25, Reading:26
GRE-Score: 322
Quantitative:168 Verbal:150 Writing:4

SKILLS

• Matlab(High Ability): I developed a ray-tracing Algorithm that contains over 4000 lines of code. this code shows the same performances that an expensive ray tracing software shows.
This Algorithm was crucial for my M.Sc Thesis.
•Autocad Electrical
•Proficad
•Proteus
•HFSS

MASTER OF SCIENCE TRANSCRIPTS

Title	Grade	Rank In Class(23Students)
Stochastic Process	15/20	2/23
Advanced Communication Theory	16/20	2/23
Wireless Communications	13/20	5/23
Seminar	16.25/20	2/23
Channel Coding	15/20	3/23
Cellular Communications	15/20	3/23
Advanced communication Systems Simulations	18.25/20	1/23
Detection and Estimation Theory	18.5/20	1/23

Note:
In Iranian Grading Scale 12 is passing grade and 20 is maximum grade.