

Personal information

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Research Interest

Wireless Communications, Machine Learning, Full-Duplex, 5G, Cellular Communication, Resource Allocation, Massive MIMO, Cooperative Communication.

Education

MSc of Electrical Engineering, Telecommunications Engineering, Iran University of Science and Technology, Iran, GPA: 16.15/20, Sept. 2014 - Sept. 2016.

Thesis topic: [Uplink data rate improvement in full-duplex cooperative OFDMA cellular Networks](#)

BSc of Electrical Engineering, Telecommunication Engineering, Amirkabir University of Technology, Iran, GPA: 16.44/20, Sept. 2009 - June 2014.

Thesis topic: [The analysis and implementation of data transmission protocols between the ground station and LEO satellites](#)

Pre-university Certificate, Mathematics ,and physics Discipline, Imam Sadegh Educational Complex, Iran, GPA: 19.16/20, Sept. 2008 - June 2009.

High School Diploma, Imam Sadegh Educational Complex, Iran, GPA: 19.26/20, Sept. 2005 - June 2008.

Selected Publication

Resource Allocation and Relay Selection in Full-Duplex Cooperative Orthogonal Frequency Division Multiple Access Networks, [Elsevier Computer and Electrical Engineering Journal](#), 2017, J. Banar, S. M. Razavizadeh.

On the Uplink Spectral Efficiency of Full-Duplex Cooperative OFDMA Systems, [Eighth International Symposium on Telecommunications \(IST\)](#), 2016, J. Banar, S. M. Razavizadeh.

Awards and Honors

Awarded a full scholarship for BSc program at Electrical Engineering, funded by Amirkabir University of Technology, [Sept. 2009- June 2014](#).

Awarded a full scholarship for MSc program at Electrical Engineering, funded by Iran University of Science and Technology, [Sept. 2014- Sept. 2016](#).

Ranked 300th in the national University entrance examination for the MSc degree, [2014](#).

Awarded exceptional talent honor for BSc program, Amirkabir University of Technology, Sept. 2009- June 2014.

Changing the field of study from information technology engineering to electrical engineering based on awarded exceptional talent honor in BSc program, Amirkabir University of Technology, Jan. 2010.

Ranked 2nd according to GPA among all BSc students in the computer and information technology engineering department, Amirkabir University of Technology, Iran, Sept. 2009- Jan. 2010.

Awarded in the second elite's congress of Tehran's district 9, Iran, 2009.

Ranked within the top 0.3% in the National University Entrance Examination for the BSc degree among more than 450,000 participants, 2009.

Military service fulfilled based on facilities of National Elites Foundation of Iran, 2018.

Experiences

Radio Frequency Optimization Engineer, AEC company, Nov 2019 - Jun 2020.

3G Optimization on Ericsson devices for MTN network in Iran

Technical Consultant in Iran's Telecommunication Research Center, Apr 2016 - Mar 2019.

Researching on implementation, legislation and regulation of new technologies, such as big data, cloud computing, 5G, internet of things, blockchain and working on relating documentations from APT and ITU

Research Assistant in Wave propagation lab, Amirkabir University of Technology, Supervisors: Prof. Reza Sarraf Shirazi and Prof. Gholamreza Moradi, Sept 2016 - June 2020.

Researching on numerical methods in electromagnetics such as Monte Carlo methods, finite element methods, finite difference methods, moment methods, finite-difference-time-domain methods. Helping some of the lab's students to make progress in their thesis

Research Assistant in Mobile Broadband Networks Research Group, Iran University of Science and Technology, Supervisor: Prof. S. Mohammad Razavizadeh, Sept. 2014 - June 2020.

Working on sum rate improvement in cellular networks by using of full-duplex systems, buffer-aided relaying, cooperative communications and OFDMA schemes. Researching on machine learning and deep learning applications on wireless communications

Teaching Assistant of MIMO systems course in Iran University of Science and Technology, Lecturer: Prof. S. Mohammad Razavizadeh, Sept. 2016 - Feb. 2016.

Certificates

Reviewer certificate of the computer and electrical engineering journal of Elsevier, 2017.

Certificate of the paper presentation in the workshop of the International Symposium on telecommunication (IST), Iran's telecommunication research center, 2017.

Reviewer of the second international conference on computer science and application engineering (CSAE), China, 2018.

Certificate of "Updating of technical criteria and radio spectrum regulations and radio links designs" training course, Faculty of the applied science of post and telecommunication, 2017.

Technical skill set

C, Java, MATLAB, LaTeX, Android, Python, VHDL.

Advanced Design System (ADS), CST Microwave Studio.

Proteus Design Suite, OrCAD, Xilinx ISE, PSpice, HSpice.

CVX in MATLAB, WordPress.

Languages

English, Persian, French.