Assoc. Prof. Javad Haghighat

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Biography

Javad Haghighat received the B.Sc. and M.Sc. degrees in electrical engineering from the University of Tehran, in 2000 and 2002, and the Ph.D. degree in Electrical Engineering from Concordia University, Montreal, Canada, in 2007. He is currently with the Department of Electrical and Electronics Engineering, TED University, Ankara, Turkey, as an Associate Professor. His research interests include source coding, channel coding, cooperative communications, and wireless sensor networks.

Research Areas

Engineering and Technology

Academic Titles / Tasks

Associate Professor, TED University, Faculty of Engineering, Dept.of Electric&Electronics Engineering, 2022 - Continues

Courses

Undergraduate
Electromechanical Energy Conversion, Undergraduate, 2023 - 2024, 2022 - 2023
Communication Systems I, Undergraduate, 2023 - 2024, 2022 - 2023
Wireless Communications, Undergraduate, 2022 - 2023
Electromechanical Energy Conversion, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A Practical Indexing Scheme for Noisy Shuffling Channels Using Cosets of Polar Codes**
Haghighat J., Duman T. M.
IEEE Transactions on Communications, 2024 (SCI-Expanded)

II. **An Energy-Efficient Feedback-Aided Irregular Repetition Slotted ALOHA Scheme and Its Asymptotic Performance Analysis**
Haghighat J., Duman T. M.
IEEE Transactions on Wireless Communications, vol.22, no.12, pp.9808-9820, 2023 (SCI-Expanded)

III. **Analysis of Coded Slotted ALOHA with Energy Harvesting Nodes for Perfect and Imperfect Packet Recovery Scenarios**
Haghighat J., Duman T. M.
IEEE Transactions on Wireless Communications, vol.22, no.11, pp.7424-7437, 2023 (SCI-Expanded)

IV. **Analysis of the Effect of Sand and Dust Storms (SDSs) and Rain on the Performance of Cellular Networks in the Millimeter Wave Band**
Olyaee M., Eslami M., Navaie K., Romero-Jerez J. M., Hashemi H., Haghighat J., Bahmanpour M.
IEEE Access, vol.11, pp.69252-69262, 2023 (SCI-Expanded)

V. **A Delay-Efficient Deep Learning Approach for Lossless Turbo Source Coding**
Manouchehri S., Haghighat J., Eslami M., Hamouda W.
IEEE Transactions on Vehicular Technology, vol.71, no.6, pp.6704-6709, 2022 (SCI-Expanded)

VI. **Optimal Caching Policy for D2D Assisted Cellular Networks With Different Cache Size Devices**
Abdolkhani N., Eslami M., Haghighat J., Hamouda W.
IEEE Access, vol.10, pp.99353-99360, 2022 (SCI-Expanded)

VII. **Amplify-and-Forward Relaying with Maximal Ratio Combining over Fluctuating Two-Ray Channel: Non-Asymptotic and Asymptotic Performance Analysis**
Hashemi H., Haghighat J., Eslami M., Navaie K.
IEEE Transactions on Communications, vol.68, no.12, pp.7446-7459, 2020 (SCI-Expanded)

VIII. **Performance Analysis of Cellular Downlink with Fluctuating Two-Ray Channels under Inter-Cell Interference**
Olyaee M., Eslami M., Haghighat J., Hamouda W.
IEEE Transactions on Vehicular Technology, vol.69, no.11, pp.13437-13449, 2020 (SCI-Expanded)

IX. **Analysis of Equal Gain Combining over Fluctuating Two-Ray Channels with Applications to Millimeter-Wave Communications**
Hashemi H., Haghighat J., Eslami M., Hamouda W. A.
IEEE Transactions on Vehicular Technology, vol.69, no.2, pp.1751-1765, 2020 (SCI-Expanded)

X. **Performance of maximum ratio combining of fluctuating two-ray (FTR) mmWave channels for 5G and beyond communications**
Olyaee M., Eslami M., Haghighat J.
Transactions on Emerging Telecommunications Technologies, vol.30, no.10, 2019 (SCI-Expanded)

XI. **Performance analysis of turbo codes and distributed turbo codes in buffer-aided relay systems**
Attarkashani A., Hamouda W., Moualeu J. M., Haghighat J.
IEEE Transactions on Communications, vol.67, no.7, pp.4620-4633, 2019 (SCI-Expanded)