



Mr. Mohsen Eslami Nazari

1. Background

B.Sc., University of Kashan, September 2010

M.Sc., Amirkabir University of Technology, Jan 2014

PhD., Memorial University, August 2021 (expected)

2. Thesis and Supervisors

Electromagnetic Scattering from Lossy Plasmonic and Non-plasmonic Half-Spaces: Vertical Polarized Incident Wave

• Supervisor: Dr. Weimin Huang

3. Publication

- 1) M. E. Nazari and W. Huang, “[An Asymptotic Solution for the Electromagnetic Scattering of a Vertical Dipole over Layered Plasmonic and Non-plasmonic Structures,](#)” *IET Microw. Antenna P.*, 2021. (in press: DOI: 10.1049/mia2.12069)
- 2) M. E. Nazari and W. Huang, “[An Analytical Solution of the Electric Field Excited by a Dipole above a Layered Half-Space: From Radio to Microwave Frequencies,](#)” *IEEE Trans. Antennas Propag.*, vol. 68, no. 11, pp. 7517-7529, 2020.
- 3) M. Nazari and W. Huang, “[Electromagnetic Scattering from Layered Ordinary and Plasmonic Media: Linearly Polarized Wave Incidence ,](#)” *IEEE NECEC Conference*, St. John's, Canada, 2020
- 4) M. Eslami Nazari, W. Huang, and Z. Alavizadeh, “[Return Loss-Bandwidth Evaluation for Electrically Small Microstrip Antennas,](#)” *J. Electromagnet. Wave*, vol. 34, no. 16, 2220-2235, 2020.
- 5) M. Eslami Nazari and W. Huang, “[An Analytical Solution of the Electric Field Radiated by a Dipole Over a Layered Half-Space,](#)” *IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting*, Montreal, Canada, 2020. (Student Paper Competition Honorabe Mention Award)

- 6) M. E. Nazari and W. Huang, "An Analytical Solution of Electromagnetic Radiation of a Vertical Dipole Over a Layered Half-Space," *IEEE Trans. Antennas Propag.*, vol. 68, no. 2, pp. 1181-1185, 2020.
- 7) M. E. Nazari, W. Huang, and C. Zhao, "Radio Frequency Interference Suppression for HF Surface Wave Radar Using CEMD and Temporal Windowing Methods," *IEEE Geosci. Remote Sens. Lett.*, vol. 17, no. 2, pp. 212-216, 2020.
- 8) M. Nazari and W. Huang, "Electromagnetic scattering of a vertical dipole over a layered half-space in far-field region," *IEEE NECEC Conference*, Newfoundland, Canada, 2019.
- 9) M. E. Nazari, W. Huang, and C. Zhao, "Dense Radio Frequency Interference Cancellation by CEMD and Temporal Windowing Processing for HFSW Radar," *MTS/IEEE Oceans*, Marseille, France, 2019.
- 10) M. Nazari and W. Huang, "Electromagnetic Scattering From Layered Media Based on the Generalized Function Theory," *IEEE NECEC Conference*, Newfoundland, Canada, 2018.
- 11) M. Nazari and W. Huang, "Bandwidth analysis of electrically small antennas using Bode-Fano and Q factor theorems," *IEEE NECEC Conference*, Newfoundland, Canada, 2017.

4. Award

- Graduate Student Award in Research Excellence, MUN, 2021
- Student Paper Competition Honorabe Mention Award, *IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting*, Montreal, Canada, 2020.
- Wally Read Best Student Paper Award, IEEE NECEC 2019
- Fellow of School of Graduate Studies, 2021 (to be awarded)