



Javad EbrahimiZadeh, M.sc.

Research assistant at Department of Engineering Sciences, Solid State Electronics

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Experience

University of Uppsala, as a research assistant in MMG Group

2018-2019

- Modal analyses of multi-layer dielectric medium for Intra Body Communication Using Fat layer Project.
- Excitation of fat layer analyses based on implant probe, analyzing and measurement.
- Microwave Imaging system designing for Skull healing monitoring.
- Burnt skin measurement and analyzing at microwave frequency for classification of degree of burnt based on the tissue permittivity.

University of Tehran, as a research assistant at Microwave lab

2015-2018

- Design and implementation of Electromagnetic Time Reversal Non-Destructive.
- health monitoring system of Pipes.
- Design and Implementation of Pulse RADAR for Ground Penetrating RADAR for civil application.
- Design and implementation of FMCW altimeter RADAR.
- Design and analyses of Through the Wall RADAR.
- Design and implementation of Microstrip and Vivaldi antenna.
- SAR, Time Reversal, MUSIC and Back-projection Microwave imaging.
- Multilayered Green's Functions (GFs).
- EM Scattering from Objects with Arbitrary Geometries

Iran Telecommunication Research Center (ITRC), as a researcher

2014-2016

- Designing antenna chamber for Short Range Devices (SRD)

EDUCATION

Researcher in electrical engineering

University of Tehran and Uppsala

2015-2019

M.Sc In Electrical and Electronics Engineering

University of Tehran

2012-2015

Bachelor of Science In Electrical and Electronics Engineering

University of Sistan and baluchestan

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PUBLICATIONS

18	2	15	13	0
Citations	h-Index	Article	Conference	Book

Articles

1. **Ebrahimi-Zadeh, J.**, Dehmollaian, M., & Mohammadpour-Aghdam, K. (2016). Electromagnetic time-reversal imaging of pinholes in pipes. *IEEE Transactions on Antennas and Propagation*, 64(4), 1356-1363.
2. Mohd Shah, S., M Shah, S Redzwan, NB Asan, J Velander, **J. Ebrahimizadeh**, MD Perez, Augustine, R. (Accepted). Analysis of Thickness Variation in Biological Tissues using Microwave Sensors for Health Monitoring Applications. *IEEE Access*.

Conferences

1. **Ebrahimi-Zadeh, J.**, Dehmollaian, M., & Mohammadpour-Aghdam, K. (2016, May). Ultra-wideband electromagnetic space-frequency time reversal beamforming in a rectangular metal tube. In *2016 24th Iranian Conference on Electrical Engineering (ICEE)* (pp. 849-853). IEEE.
2. **Ebrahimi-Zadeh, J.**, Dehmollaian, M., & Mohammadpour-Aghdam, K. (2016, September). Ultra-wideband electromagnetic DORT time-reversal localization of single-defect in pipe. In *2016 8th International Symposium on Telecommunications (IST)* (pp. 409-414). IEEE.
3. **Ebrahimi-Zadeh, J.**, Balegh, H., & Fallahi, R. (2016, September). Electromagnetic DORT time reversal dielectric spectroscopy. In *2016 8th International Symposium on Telecommunications (IST)* (pp. 437-441). IEEE.
4. **Ebrahimi-Zadeh, J** M. D. Perez and R. Augustine, "Electromagnetic Time-Reversal Technique for Monitoring Skull Healing Stages," in *Proceeding of 2019 EUCAP, 13th European Conference on Antennas and Propagation*, 2019.
5. **EbrahimiZadeh J**, Bappaditya Manda, Pramod K.B. Rangaiah, Perez,M. D., & Augustine, R. Near Field Active Microwave Imaging System Designing for Monitoring Craniotomy Healing Stages. In *2019 IEEE MTT-S International Microwave and RF Conference (IMaRC 2019)* IEEE, (Accepted to be published).
6. **Ebrahimi-Zadeh, J** M. D. Perez and R. Augustine, "Electromagnetic Time-Reversal Tomography for Monitoring Skull Healing Stages," *2020 EUCAP, 14th European Conference on Antennas and Propagation*, 2020(submitted).
7. **Ebrahimi-Zadeh, J**, Seyed Abbas Akbarzadeh Jahromi, M. D. Perez and R. Augustine, "Pathloss Calculation for Fat-Intra Body Communication Using Poynting Vector Theory," *2020 EUCAP, 14th European Conference on Antennas and Propagation*, 2020(Accepted).
8. Alireza Madannejad, **EbrahimiZadeh, J**, Fatemeh Ravanbakhs, J M. D. Perez and R. Augustine, "Reflectometry Enhancement by Saline Injection in Microwave-based Skin Burn Injury Diagnosis," in *Proceeding of 2020 EUCAP, 14th European Conference on Antennas and Propagation*, 2020(Accepted).
9. Alireza Madannejad, Amir Arayeshnia, **EbrahimiZadeh, J**, Fatemeh Ravanbakhs, J M. D. Perez and R. Augustine, "Miniaturized CPW-fed bowtie slot antenna for wearable biomedical applications," in *Proceeding of 2020 EUCAP, 14th European Conference on Antennas and Propagation*, 2020 (Accepted).

HONORS and AWARDS

University of Tehran, Tehran, Iran

- Ranked 47th among 75,000 participants in the Iranian universities entrance exam nationwide.
- Best inventor and thesis among master students of University of Tehran 2015.
- Iranian patent on “Electromagnetic Time-Reversal Imaging of Pinholes in Pipes”.
- member of the talent student community in Tehran, Iran.

ACADEMIC POSITIONS

Teaching Assistant at University of Tehran, Tehran, Iran

- Advanced mathematics, (Fall 2014)
- Antenna Lab, (Fall 2013)
- Robotic Lab teaching assistant at Uppsala University (2019)
- Antenna Lab teaching assistant at Uppsala University (2019)

Selected COURSES

- Engineering Mathematics
- Advanced Engineering Mathematics
- Fields and Waves
- Engineering Mathematics
- Special Topics in Communication Engineering
- Advanced Engineering Mathematics
- Principle of RADAR Systems
- Electromagnetic Scattering from Random Media and its Applications
- Metamaterials (Fundamentals, Realization, and Applications)
- Microwave Laboratory
- Dyadic Green in Electromagnetism
- Electrical Circuits 1,2
- Microwave Laboratory



ENGINEERING SKILLS

Extensive experience in:

- ✓ Modeling of High Frequency Structures with: Ansoft HFSS, CST, Agilent ADS, FEKO
- ✓ Working with Other engineering software like: MATLAB, AutoCAD, Protel.
- ✓ Extensive experience with use of Agilent RF Instruments like Network and Spectrum Analyzers, Signal generators, etc. for precision RF measurements,
- ✓ ARM microcontroller, Keil software
- ✓ Computer programming with Visual C++,

References

Paul M. Meaney	Professor	Paul.M.Meaney@dartmouth.edu
Robin Augustine	Associate Professor	robin.augustine@angstrom.uu.se
Dragos Dancila	Associate Professor	Dragos.Dancila@angstrom.uu.se