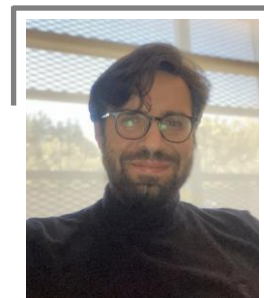


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The research interests include electromagnetic theory, direct and inverse electromagnetic and acoustic scattering problems, numerical modelling and simulations, microwave techniques and antenna applications.

EDUCATION

- January 2021** **Doctor of Philosophy**
Istanbul Technical University / Graduate School / Commn. Systems Faculty
- May 2014** **M.Sc. Electronics and Communication Engineering**
Dogus University / Inst. of Sci. & Tech. / Engineering Faculty
- August 2010** **B.Sc. Electrical and Electronics Engineering**
Bilkent University / Engineering Faculty

WORK EXPERIENCE

- Sep 2021- ...** **FMV Isik University**
Assist. Prof. Dr. / Engineering Faculty – Electrical & Electronics. Engineering
Courses have been taught:
Circuit Theory
Fundamentals of Electrical and Electronics Engineering
Applied Electromagnetics
Differential Equations
- Jan 2016-August 2021** **Piri Reis University**
Lecturer / Engineering Faculty – Elect. & Electro. Eng.
Courses have been taught modules on electronics and programming.
- Jan 2019 – June 2019** **Qatar M. Bin Ghanem Al Ghanem Maritime Academy**
Associated Lecturer
Courses have been taught
Introduction to Computer Programming
Calculus - I
- May 2011 – April 2015** **Dogus University**
Research Assistant
Engineering Faculty, Control and Automation Engineering

AWARDS

- Oct. 2020** **Leopold B. Felsen Excellence in Electromagnetics Award**
Leopold B. Felsen Fund. / Boston
[Leopold B. Felsen Excellence in Electromagnetics Award - IEEE Journals & Magazine](#)
- May 2014** **Outstanding Success Award**
Faculty of Science / Dogus University

PUBLICATIONS – SCIE Indexed Journals

- A. Sefer and A. Yapar, "Inverse Scattering by Perfectly Electric Conducting (PEC) Rough Surfaces: An Equivalent Model with Line Sources", *IEEE Transactions on Geoscience and Remote Sensing*, Early Access, pp. 1-9, Sep. 2022 doi: [10.1109/TGRS.2022.3210657](https://doi.org/10.1109/TGRS.2022.3210657)
- I. Aydin, G. Budak, A. Sefer and A. Yapar, "Recovery of Impenetrable Rough Surface Profiles via CNN-Based Deep Learning Architecture", *International Journal of Remote Sensing*, Early Access, pp.1-28, June 2022, doi: [10.1080/01431161.2022.2105177](https://doi.org/10.1080/01431161.2022.2105177)
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- A. Sefer and A. Yapar, "An Iterative Algorithm for Imaging of Rough Surfaces Separating Two Dielectric Media," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 59, no. 2, pp. 1041-1051, 2021, doi: [10.1109/TGRS.2020.2997637](https://doi.org/10.1109/TGRS.2020.2997637).
- A. Sefer, L. Sevgi, M.A. Uslu, "Matlab-based 3-D FDTD and MoM Algorithms Codes for RCS analysis of Realistic Objects", *IEEE Antennas and Propagation Magazine*, vol. 57, no.4, pp. 122-148, 2015 doi:[10.1109/MAP.2015.2453918](https://doi.org/10.1109/MAP.2015.2453918)

International Conference Papers

- A. Sefer, "Optimization of Inverse Problems involving Surface Reconstruction: Least Squares Application," 2022 3rd URSI Atlantic and Asia Pacific Radio Science Meeting (AT-AP-RASC), 2022, pp. 1-4, doi: [10.23919/AT-AP-RASC54737.2022.9814221](https://doi.org/10.23919/AT-AP-RASC54737.2022.9814221).

- A. Sefer and A. Yapar, “Electromagnetic Imaging of Random Rough Surface Profiles”, *2019 Fifth International Electromagnetic Compatibility Conference, Kocaeli, Turkey*, Sep. 2019
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- A. Sefer and L. Sevgi, “LU Based Method of Moments Algorithm for 3-D Wave Scattering from arbitrary shape objects”, *3rd International Electromagnetic Compatibility Conference, Istanbul, Turkey*, Sep. 2015 (emcturkiye.org)

National Conference Papers & Others

- A. Sefer and L. Sevgi, “Analytic and Numerical Analysis of Scattering from Sphere Problem as a Calibration Element”, *EMC -Turkiye Conference, Istanbul, Turkey*, August 2013.
- A. Sefer, "Küresel Elektromanyetik Saçılma: Mie Teorisi", *EMO Bilimsel Dergi*, vol. 8, no. 2, pp. 105-110, Feb. 2019.