

SAEID KARAMZADEH

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PHD : ISTANBUL TECHNICAL UNIVERSITY
Communication Systems/
(2013-2015) Satellite Communication and Remote Sensing (DR)
THESIS: Circularly Polarized Array Antenna Design with Emphasis to
Enhance the Antenna Performance for C-Band Applications (2015)

Ms. C: ISTANBUL TECHNICAL UNIVERSITY
Communication Systems/
(2011-2013) Satellite Communication and Remote Sensing (Ms. C)
THESIS: Detection Improvement of Hidden Humans Respiratory using
UWB Radar (2013)

INSTRUCTOR: Electrical and Electronics Engineering, Engineering Faculty, Istanbul Aydin University, Istanbul, Turkey (2013-2016)

Assist. Prof. Dr.: Electrical and Electronics Engineering, Engineering Faculty, Istanbul Aydin University, Istanbul, Turkey (2016- 2018)

Assoc. Prof. Dr.: Electrical and Electronics Engineering, Engineering Faculty, Istanbul Aydin University, Istanbul, Turkey (2018- continues)

RESEARCHER: Application & Research Center for Advanced Studies, Istanbul Aydin University, Istanbul, Turkey (2015 – continues)

ECTS & ERASMUS Coordinator: Electrical and Electronics Engineering, Engineering Faculty, Istanbul Aydin University, Istanbul, Turkey (2015- continues)

TEACHING ABROAD: - University of Calabria, Italy (Sep 2015)
- University of Malaga, Spain (May 2018)

AWARDS

The Most Successful Ph.D. Thesis of Istanbul Technical University
Istanbul Technical University Rectorate, 2015.

PROJECTS

1. Microstrip Antenna Design for GPR Applications, Scientific Research Project, Istanbul Aydin University (Jan 2016 - Sep 2016)
2. Detection of Vital Signs Through the Obstacle via Radar, Scientific Research Project, Istanbul Aydin University (Jan 2017 - Sep 2017)
3. Human Detection Under Collapsed Buildings After Earthquake using Ultra- Wideband Ground Penetrating Radar Kit, supported by: The Scientific and Technological Research Council of Turkey - TÜBİTAK 1002 (Jun 2018- Feb 2019).
4. Metasurface Interlaced Sequentially Rotated Circularly Polarized Patch Antenna design with Capability to Change Polarization Diversity, Scientific Research Project, Istanbul Aydin University (Jun 2018 - Jun 2019)
5. Antenna Design for CubeSat - TÜBİTAK (1002 Under review)
6. Array Antenna Design with High Gain and Wide Angle Scanning for Long Range Automotive Radar, TÜBİTAK 3501 (Under Review)

PUBLICATIONS

INTERNATIONAL OFFICIATING JOURNALS (Science Citation Index):

1. **Saeid Karamzadeh**, “Miniaturized half mode SIW diplexer loaded by CSRR”, International Journal of RF and Microwave Computer-Aided Engineering, Wiley, DOI: 10.1002/mmce.21446, Sep 2018.
2. Mohammad Joula, Vahid Rafiei, **Saeid Karamzadeh**, “High gain UWB bow-tie antenna design for ground penetrating radar application”, Microwave and Optical Technology Letters, Wiley, September 2018, DOI: 10.1002/mop.31392.
3. **Saeid Karamzadeh**, “A Novel Compact Polarization Diversity Ultra-Wideband MIMO Antenna” Applied Computational Electromagnetics Society Journal, Volume:32, Issue:1, Pages: 74-80, Jan 2017.
4. **Saeid Karamzadeh**, Vahid Rafiei, Hasan Saygin, “Circularly Polarized Aperture Coupled Zeroth Order Resonance Antenna for mm-Wave”, Applications, Applied Computational Electromagnetics Society Journal, Volume:32, Issue:9, Pages: 789-793, Sep 2017.

5. **Saeid Karamzadeh**, Vahid Rafiei, Hasan Saygin, "PD FPR CP high-gain MIMO antenna", *Electronics Letters*, Volume:53, Issue: 17, Pages:1174-1176, Aug2017.
6. **Saeid Karamzadeh**, Vahid Rafiei, Hasan Saygin, "Compact size cognitive radio with non-and uni-planar parasitic coupled section for UWB and WLAN/WiMax application" *IET Microwaves, Antennas & Propagation*, Volume:11, Issue: 11, Pages: 1661 – 1666, Sep 2017.
7. **Saeid Karamzadeh**, Vahid Rafiei, Hasan Saygin, "A novel circularly polarized cavity backed SIW antenna with capability to change polarization diversity by a reconfigurable polarizer structure", *International Journal of RF and Microwave Computer-Aided Engineering*, DOI: 10.1002/mmce.21113, April 2017.
8. **Saeid Karamzadeh**, Vahid Rafiei, Hasan Saygin, "A New Multi-Functional Half Mode Substrate Integrated Waveguide Six-Port Microwave Component", *Progress In Electromagnetics Research Letters*, Volume:69, Pages: 71–78, Aug 2017.
9. **Saeid Karamzadeh**, Vahid Rafiei, Hasan Saygin, Mesut Kartal "Polarisation diversity cavity back reconfigurable array antenna for C-band application", *IET Microwaves, Antennas & Propagation*, Volume:10, Issue: 09, Pages: 955 – 960, Jun 2016.
10. Majid Shokri, Vahid Rafii, **Saeid Karamzadeh**, Zhaleh Amiri, Bal Virdee, "CPW-fed printed UWB antenna with open-loop inverted triangular-shaped slot for WLAN band filtering", *International Journal of Microwave and Wireless Technologies*, Volume:08, Issue: 02, Pages: 257 – 262, Mar 2016.
11. **Saeid Karamzadeh**, Mesut Kartal, "Circularly polarized 1×4 square slot array antenna by utilizing compacted modified butler matrix and branch line coupler", *International Journal of RF and Microwave Computer-Aided Engineering*, Volume: 26, Issue: 2, Pages: 146-153, Feb 2016.
12. **Saeid Karamzadeh**, Vahid Rafii, Mesut Kartal, Bal S Virdee, "Compact and Broadband 4 X 4 SIW Butler Matrix with Phase and Magnitude Error Reduction" *IEEE Microwave and Wireless Components Letters*, Volume: 25, Issue: 12, Pages: 772-774, Dec 2015.
13. **Saeid Karamzadeh**, Vahid Rafiei, Mesut Kartal, Hasan Saygin, "Compact UWB CP square slot antenna with two corners connected by a strip line" *Electronics Letters*, Volume: 52, Issue: 1, Pages: 10-12, Nov 2015.
14. **Saeid Karamzadeh**, Vahid Rafiei, Hasan Saygin, Mesut Kartal, "Reconfigurable CP cavity back with ability to change polarisation diversity" *Electronics Letters*, Volume: 51, Issue:25, Pages: 2080-2082, Nov 2015.

15. **Saeid Karamzadeh**, Mesut Kartal, “Circularly polarised MIMO tapered slot antenna array for C-band application” *Electronics Letters*, Volume: 51, Issue:18, Pages: 1394-1396, Aug 2015.
16. **Saeid Karamzadeh**, Bal Virdee, Vahid Rafii, Mesut Kartal, “Circularly polarized slot antenna array with sequentially rotated feed network for broadband application”, *International Journal of RF and Microwave Computer-Aided Engineering*, Volume: 25, Issue:4, Pages: 358-363, May 2015.
17. **Saeid Karamzadeh**, Vahid Rafii, Mesut Kartal, Bal S Virdee, “Modified circularly polarised beam steering array antenna by utilised broadband coupler and 4×4 butler matrix”, *IET Microwaves, Antennas & Propagation*, Volume: 9, Issue:9, Pages: 975-981, April 2015.
18. **Saeid Karamzadeh**, Vahid Rafii, Mesut Kartal, Morteza Dibayi, “Circularly Polarized Square Slot Antenna Using Crooked T-Shape Technique.”, *Applied Computational Electromagnetics Society Journal*, Volume: 30, Issue:3, Pages: 327-332, Mar 2015.
19. Majid Shokri, Vahid Rafii, **Saeid Karamzadeh**, Zhaleh Amiri, Bal Virdee, “Miniaturised ultra-wideband circularly polarised antenna with modified ground plane”, *Electronics Letters*. Volume: 50, Issue:24, Pages: 1786-1788, Nov 2014.
20. **Saeid Karamzadeh**, Vahid Rafii, Mesut Kartal, Osman Nuri Ucan, Bal S Virdee, “Circularly polarised array antenna with cascade feed network for broadband application in C-band”, *Electronics Letters*, Volume: 50, Issue:17, Pages: 1184-1186, Jul 2015.
21. **Saeid Karamzadeh**, Vahid Rafiei, Hasan Saygin “Multi-Functional six ports SIW microwave Component for X-band applications” *IETE Journal of Research*, Taylor and Francis 21 Mar 2018 (DOI: 10.1080/03772063.2018.1447401).
22. Vahid Rafiei, Hasan Saygin, **Saeid Karamzadeh**, “Circularly Polarized Aperture-Coupled Microstrip-Line Fed Array Antenna for WiMAX/C Bands Applications “*ACES JOURNAL*, Vol. 32, No. 12, December 2017, pp. 1117 – 1120.
23. **S. Karamzadeh**, V. Rafiei, H. Saygin “Millimetre-wave high-gain circularly polarised SIW end-fire bow-tie antenna by utilising semi-planar helix unit cell” *ELECTRONICS LETTERS* 10 January 2018, (doi: 10.1049/el.2018.0022).
24. Hasan Saygin, Vahid Rafiei, **Saeid Karamzadeh**, “A new compact dual band CP antenna design”, *Microwave and Optical Technology Letters*, Volume 60, Issue 3 March 2018 Pages 594–600 (DOI: 10.1002/mop.31019).

INTERNATIONAL OFFICIATING JOURNALS (Others):

25. Hashmatullah Ahmadzai, **Saeid Karamzadeh**, “Antenna Design with Band Notched Characteristic for UWB Applications” International Journal of Electronics, Mechanical and Mechatronics Engineering Vol.7 Num.4 - 2017 (1475-1483).
26. **Saeid KARAMZADEH**, Ahmet Said HEPBİÇER, Fatih DEMİRBAŞ, Oğuz Furkan KILIÇ, “Double Band Fractal Bow Tie Antenna Design for GPR Application”, International Journal Of Electronics, Mechanical and Mechatronics Engineering Vol.7 Num.4 - 2017 (1499-1503).
27. Nasir Iqbal, **Saeid Karamzadeh**, “UWB Microstrip Antenna Design for Microwave Imaging Systems”, International Journal Of Electronics, Mechanical And Mechatronics Engineering, Volume: 7, Issue:2, Pages: 1411-1417, Mar 2017.
28. **Saeid Karamzadeh**, Oğuz Furkan KILIÇ, Fatih Demirbaş, Ahmet Said Hepbiçer, “Frequency Independent Self Complementary Bow Tie Antenna Design for GPR Applications”, Anadolu University Journal of Science And Technology–A Applied Sciences And Engineering, Volume: 18, Issue:1, Pages: 131-138, Mar 2017.
29. Amir Eslami, **Saeid KARAMZADEH**, “Proposal and Analysis of a New Spectrum Sensing Algorithm for Cognitive Radio Driven Hospitals”, International Journal of Applied Mathematics, Electronics and Computers, Volume: 4, Issue: Special, Pages: 48-51, Nov 2016.
30. **Saeid KARAMZADEH**, Oğuz Furkan KILIÇ, Ahmet Said HEPBİÇER, Fatih DEMİRBAŞ, “Bow Tie Antenna Design for GPR Applications”, International Journal of Electronics, Mechanical and Mechatronics Engineering, Volume: 06, Issue:2, Pages: 1187-1194, Sep 2016.
31. Amir ESLAMI, **Saeid KARAMZADEH**, “Performance Analysis of Energy Based Spectrum Sensing over Nakagami-m Fading Channels with Noise uncertainty”, International Journal of Electronics, Mechanical and Mechatronics Engineering, Volume: 06, Issue:1, Pages: 1101-1106, Feb 2016.
32. Hemrah HIVEHCHI, **Saeid KARAMZADEH**, “A New Compact Circular Polarized CPW Antenna Design for UWB Application”, International Journal of Electronics, Mechanical and Mechatronics Engineering Vol.7 Num.3 - 2016 (1433-1439).
33. **Saeid KARAMZADEH**, Hemrah HIVEHCHI, “A New CPW-Fed Circularly Polarized Square Slot Antenna Design” IU-JEEE, Volume: 17, Issue:1, Pages: 3141-3145, Aug 2016.

34. **Saeid Karamzadeh**, Cansu Büyükhan, Umut Eskiçirak, Akyol Tarık, “Optimal Signal Processing Methods in GPR” International Journal of Electronics, Mechanical and Mechatronics Engineering, Volume: 3, Issue:3, Pages: 585-589, Sep 2013.
35. **Saeid Karamzadeh**, Mesut Kartal, “UWB Radar in Hidden Human Detection”, International Journal of Electronics, Mechanical and Mechatronics Engineering, Volume: 3, Issue:2, Pages: 579-583, May 2013.
36. Mohammad Tohidi, Yasin Amani, Mostafa Amirpour, **Saeid Karamzadeh**, “A New High Speed, Area Efficient 7-2 Compressor for Fast Arithmetic Operations”, International Journal of Natural and Engineering Sciences, Volume: 7, Issue:2, Pages: 72-77, Feb 2013.

INTERNATIONAL CONFERENCE AND PROCEEDINGS

37. **S Karamzadeh**, H Saygin, V Rafiei, “Circularly Polarized Array Antenna with Emphasis on the Reduction of RCS by Utilizing Semi-Fractal Elements” The 12th International Conference on Communications - COMM 2018, Bucharest, Romania, Jun 2018.
38. Cansu Büyükhan, **Saeid Karamzadeh**, Melek Orhan, Alper Çalışkan, İnci Çilesiz, “Experimental Study of Human Respiratory Detection Using UWB GPR” 2017 4th International Conference on Electrical and Electronics Engineering (ICEEE 2017), April 2017.
39. Cansu Büyükhan, **Saeid Karamzadeh**, Orhan Çalışkan, Melek Orhan, İnci Çilesiz, “Background Subtraction Techniques To Detect Human Vital Signs Using Uwb GPR” International Conference on Advanced Technology & Sciences (ICAT'17), May 2017.
40. Amir Eslami, **Saeid Karamzadeh**, “Double threshold maximum to minimum Eigenvalue spectrum sensing proposal and performance analysis”, Electrical, Electronics and Biomedical Engineering (ELECO), Dec 2016.
41. Amir Eslami, **Saeid Karamzadeh**, “Memory based energy detection spectrum sensing method in cognitive radio driven hospitals” Advances in Wireless and Optical Communications (RTUWO), Nov 2016.
42. Amir Eslami, **Saeid Karamzadeh**, “Proposal And Analysis Of A New Spectrum Sensing Algorithm For Cognitive Radio Driven Hospitals” 3rd International Conference on Advanced Technology & Sciences (ICAT'16), Oct 2016.

43. **Saeid Karamzadeh**, Fatih Demirbaş, Oğuz Furkan Kılıç, Ahmet Said Hepbiçer, “Semi-Fractal Bow Tie Antenna Design for GPR Applications” URSI-TÜRKİYE’2016 VIII. Bilimsel Kongresi, Sep 2016.
44. Amir Eslami, **Saeid Karamzadeh**, “Performance analysis of double threshold energy detection-based spectrum sensing in low SNRs over Nakagami-m fading channels with noise uncertainty”, Signal Processing and Communication Application Conference (SIU), 2016 24th, May 2016.
45. **Saeid Karamzadeh**, Mesut Kartal, Sedef Kent, A Abed Ashtiyani, “Optimal Signal Processing Method in UWB Radar for Hidden Human Detection”, EUSAR 2014; 10th European Conference on Synthetic Aperture Radar, Jun 2014.
46. **Saeid KARAMZADEH**, Mesut KARTAL, “Detection Improvement of Hidden Human’s Respiratory Using Remote Measurement Methods With UWB Radar”, I CTRS 2013; Second International Conference on Telecommunications and Remote Sensing, Jul 2013.

INTERNATIONAL JOURNAL REVIEWING

IEEE Antennas and Wireless Propagation Letters

IEEE Microwave and Wireless Components Letters

IEEE ACCESS

Electronics Letters (IET)

Expanded Journal of Electromagnetic Waves and Applications (Taylor Francis)

Frontiers of Information Technology & Electronic Engineering (Springer)

IET Microwaves, Antennas & Propagation

International Journal of Electronics, Mechanical And Mechatronics Engineering

International Journal of RF and Microwave Computer-Aided Engineering

International Journal of Microwave and Wireless Technologies

Turkish Journal of Electrical Engineering & Computer Sciences (TUBITAK)

Expanded Applied Computational Electromagnetics Society

Journal of Zhejiang University-SCIENCE

İstanbul Aydın Üniversitesi Dergisi (İAÜD)

Journal of Electrical Engineering & Technology

THESIS ADVISORY

1. **Cansu Büyükhan**, “Detection of Human vital signs through Obstructive Barriers Using UWB radar ”, İstanbul Teknik Üniversitesi (Jun 2017).
2. **Nasir Iqbal**, UWB “Microstrip Antenna Design for Microwave Imaging Systems”, İstanbul Aydın Üniversitesi (May 2017).
3. **Amir Eslami**, “Spectrum Sensing Detection Methods in Cognitive Radio Systems”, İstanbul Aydın Üniversitesi (Dec 2016).
4. **Hashmatullah Ahmadzai**, “Antenna Design with Band Notched Characteristic For UWB Applications”, İstanbul Aydın Üniversitesi (Sep 2017).
5. **İlkin İbrahimli**, Mobil Haberleşme İçin Mikroşerit Anten Tasarımı, İstanbul Aydın Üniversitesi (Jul 2017)
6. **Hemrah Hivechi**, “Kablosuz Haberleşme için anten Tasarımı”, İstanbul Aydın Üniversitesi (Jul 2016).

COURSES

Ms. C

ANTENNA THEORY AND APPLICATIONS
MICROWAVE SYSTEMS ENGINEERING
DALGACIK KURAMI ve UYGULAMALARI

Bachelor

ANTENNA THEORY AND DESIGN
WAVE PROPAGATION AND ANTENNAS
MICROWAVE THEORY AND TECHNIQUES
ANALOG AND DIGITAL COMMUNICATION DESIGN
SOFTWARE TOOLS FOR ELECTRICAL AND ELECTRONICS ENGINEERING
ANALOG AND DIGITAL COMMUNICATIONS
COMMUNICATIONS LABORATORY
GRADUATION DESIGN PROJECT-I
GRADUATION DESIGN PROJECT-II
FUNDAMENTALS OF COMMUNICATION MODELS
SIGNALS AND SYSTEMS