

Asst. Prof. MURAT TEMİZ

Personal Information

Web: <https://avesis.metu.edu.tr/mtemiz>

International Researcher IDs

ScholarID: IY2-N8sAAAAJ

Publons / Web Of Science ResearcherID: ABE-6774-2020

ScopusID: 57193847261

Education Information

Doctorate, The University of Manchester, Faculty of Science and Engineering, Electrical and Electronic Engineering, England 2016 - 2020

Research Areas

Communication Engineering, Electronic, Electromagnetic

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Multiobjective Array Beamforming Method for Arrays of Flexible Shape**
Meng C., Zhang Y., TEMİZ M., El-Makadema A.
ELECTRONICS, vol.13, no.4, 2024 (SCI-Expanded)
- II. **Multibeam Cylindrical Conformal Array in the Presence of Enhanced Mutual Coupling**
Lv X., Zhang Y., Shi Q., Fu Y., TEMİZ M., El-Makadema A., Li H.
ELECTRONICS, vol.13, no.2, 2024 (SCI-Expanded)
- III. **High-Resolution Indoor Sensing Using Channel State Information of WiFi Networks**
Zhou H., Zhang Y., Temiz M.
Electronics (Switzerland), vol.12, no.18, 2023 (SCI-Expanded)
- IV. **An Experimental Study of Radar-Centric Transmission for Integrated Sensing and Communications**
Temiz M., Horne C., Peters N. J., Ritchie M. A., Masouros C.
IEEE Transactions on Microwave Theory and Techniques, vol.71, no.7, pp.3203-3216, 2023 (SCI-Expanded)
- V. **Calibration of Aperture Arrays in Time Domain Using the Simultaneous Perturbation Algorithm**
Zhang Y., Xing H., Lv X., Temiz M., Fu Y., Shi Q., El-Makadema A., Zhang A., Gao J.
IEEE Transactions on Antennas and Propagation, vol.71, no.5, pp.4167-4182, 2023 (SCI-Expanded)
- VI. **Characterising nematic liquid crystals using a circular patch resonator**
Wu Q., Zhang Y., Peng H., Temiz M.
Liquid Crystals, vol.50, no.6, pp.1069-1081, 2023 (SCI-Expanded)
- VII. **Improved Target Localization in Multiwaveform Multiband Hybrid Multistatic Radar Networks**
Temiz M., Griffiths H., Ritchie M. A.
IEEE Sensors Journal, vol.22, no.21, pp.20785-20796, 2022 (SCI-Expanded)
- VIII. **Antenna array calibration methods based on simultaneous perturbation**
Xing H., Zhang Y., Fu Y., Lv X., Xu Z., Shi J., Shi Q., Temiz M., El-Makadema A.
IET Microwaves, Antennas and Propagation, vol.16, no.14, pp.898-909, 2022 (SCI-Expanded)

- IX. A Dual-Function Massive MIMO Uplink OFDM Communication and Radar Architecture**
 Temiz M., Alsusa E., Baidas M. W.
 IEEE Transactions on Cognitive Communications and Networking, vol.8, no.2, pp.750-762, 2022 (SCI-Expanded)
- X. Jamming Effects on Hybrid Multistatic Radar Network Range and Velocity Estimation Errors**
 Dhulashia D., Temiz M., Ritchie M. A.
 IEEE Access, vol.10, pp.27736-27749, 2022 (SCI-Expanded)
- XI. A Dual Slant-Polarized Cylindrical Array of Tightly Coupled Dipole Antennas**
 Lv X., Zhang Y., Shi Q., Temiz M., El-Makadema A.
 IEEE Access, vol.10, pp.30858-30869, 2022 (SCI-Expanded)
- XII. A Foldable Tightly Coupled Crossed Rings Antenna Array of Ultrawide Bandwidth and Dual Polarization**
 Fu Y., Zhang Y., Shi Q., Temiz M., El-Makadema A., Shi J.
 IEEE Access, vol.10, pp.86684-86695, 2022 (SCI-Expanded)
- XIII. Determining dielectric properties of nematic liquid crystals at microwave frequencies using inverted microstrip lines**
 Peng H., Zhang Y., Zhu S., Temiz M., El-Makadema A.
 Liquid Crystals, vol.49, no.15, pp.2069-2081, 2022 (SCI-Expanded)
- XIV. Optimized Precoders for Massive MIMO OFDM Dual Radar-Communication Systems**
 Temiz M., Alsusa E., Baidas M. W.
 IEEE Transactions on Communications, vol.69, no.7, pp.4781-4794, 2021 (SCI-Expanded)
- XV. On the Impact of Antenna Array Geometry on Indoor Wideband Massive MIMO Networks**
 Temiz M., Alsusa E., Danoon L., Zhang Y.
 IEEE Transactions on Antennas and Propagation, vol.69, no.1, pp.406-416, 2021 (SCI-Expanded)
- XVI. A Dual-Functional Massive MIMO OFDM Communication and Radar Transmitter Architecture**
 Temiz M., Alsusa E., Baidas M. W.
 IEEE Transactions on Vehicular Technology, vol.69, no.12, pp.14974-14988, 2020 (SCI-Expanded)
- XVII. Impact of imperfect channel estimation and antenna correlation on quantised massive multiple-input multiple-output systems**
 Temiz M., Alsusa E., Danoon L.
 IET Communications, vol.13, no.9, pp.1262-1270, 2019 (SCI-Expanded)
- XVIII. A novel method based on Weibull distribution for short-term wind speed prediction**
 KAPLAN O., Temiz M.
 International Journal of Hydrogen Energy, vol.42, no.28, pp.17793-17800, 2017 (SCI-Expanded)
- XIX. Impact of limiting hop count on the lifetime of wireless sensor networks**
 Yildiz H. U., Temiz M., Tavli B.
 IEEE Communications Letters, vol.19, no.4, pp.569-572, 2015 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. Radar-Centric ISAC Through Index Modulation: Over-the-air Experimentation and Trade-offs**
 Temiz M., Peters N. J., Horne C., Ritchie M. A., Masouros C.
 2023 IEEE Radar Conference, RadarConf23, Texas, United States Of America, 1 - 05 May 2023, vol.2023-May
- II. Range and velocity estimations in multi-band hybrid multistatic radar networks**
 Temiz M., Griffiths H., Ritchie M.
 International Conference on Radar Systems (RADAR 2022), Edinburgh, England, 10 - 23 August 2022, pp.1-5
- III. Performance of range and velocity estimation in a multistatic radar network with receiver swarms**
 Dhulashia D., Temiz M., Ritchie M. A.
 International Conference on Radar Systems (RADAR 2022), Edinburgh, England, 08 July 2022, pp.1-5
- IV. Optimized precoders for vehicular massive MIMO radcom systems**
 Temiz M., Alsusa E., Baidas M. W.

Joint 30th European Conference on Networks and Communications and 3rd 6G Summit, EuCNC/6G Summit 2021,
Virtual, Porto, Portugal, 8 - 11 June 2021, pp.574-579

V. **Examining Food Quality via RFID Tag Array**

Lv X., Zhang Y., Shi Q., Temiz M., El-Makadema A.

13th International Conference on Microwave and Millimeter Wave Technology, ICMMT 2021, Nanjing, China, 23 -
26 May 2021

VI. **In-House Made Inverted Microstrip Line Phase Shifter Based on Nematic Liquid Crystal**

Xing H., Fu Y., Lv X., Peng H., Wu Q., Zhang Y., Temiz M., El-Makadema A.

13th International Symposium on Antennas, Propagation and EM Theory, ISAPE 2021, Zhuhai, China, 1 - 04
December 2021

VII. **Equivalent Circuit of Metamaterial Formed by Array of Conductive Disks**

Fu Y., Xing H., Lv X., Peng H., Xu Z., Zhang Y., Temiz M., El-Makadema A.

13th International Symposium on Antennas, Propagation and EM Theory, ISAPE 2021, Zhuhai, China, 1 - 04
December 2021

VIII. **Dual function flexible coplanar waveguide for feeding antenna of balanced structure**

Lv X., Zhang Y., Shi Q., Fu Y., Xing H., Temiz M.

13th International Symposium on Antennas, Propagation and EM Theory, ISAPE 2021, Zhuhai, China, 1 - 04
December 2021

IX. **A receiver architecture for dual-functional massive MIMO OFDM radcom systems**

Temiz M., Alsusa E., Danoon L.

2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020, Dublin, Ireland, 7 - 11
June 2020

X. **Investigation of channel correlation in indoor wideband massive MIMO systems**

Temiz M., Zhang Y., Alsusa E., Danoon L.

2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting,
APSURSI 2019, Georgia, United States Of America, 7 - 12 July 2019, pp.1577-1578

XI. **Quantized Massive MIMO Networks under Channel Correlation and CSI Mismatch**

Temiz M., Alsusa E., Danoon L.

28th European Conference on Networks and Communications, EuCNC 2019, Valencia, Spain, 18 - 21 June 2019,
pp.331-336

XII. **The analysis of wind speed potential and energy density in Ankara**

KAPLAN O., Temiz M.

5th IEEE International Conference on Renewable Energy Research and Applications, ICRERA 2016, Birmingham,
England, 20 - 23 November 2016, pp.919-923

XIII. **Impact of limiting of hop count on lifetime of wireless sensor networks Kablosuz algılayıcı ağlarda
atlama sayısının kısıtlanmasının yaşam süresi üzerine etkisi**

Temiz M., Tavli B.

2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26
April 2013

XIV. **Impact of Limiting of Hop Count on Lifetime of Wireless Sensor Networks**

TEMİZ M., Tavli B.

21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

Metrics

Publication: 33

Citation (WoS): 51

Citation (Scopus): 285

H-Index (WoS): 4

H-Index (Scopus): 10