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International Researcher IDs

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Publons / Web Of Science ResearcherID: S-3037-2018

ScopusID: 57190740985

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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Turkey 2015 - Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, Turkey 2012 - 2015

Undergraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2006 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, OUT-OF-BAND RADIATION AND CFO IMMUNITY OF POTENTIAL 5G MULTICARRIER MODULATION SCHEMES, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2015

Research Areas

Engineering and Technology

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2012 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Reduced Complexity Ungerboeck Receiver for Quantized Wideband Massive SC-MIMO**
ÜÇÜNCÜ A. B., GÜVENSEN G. M., YILMAZ A. Ö.
IEEE Transactions on Communications, vol.69, no.7, pp.4921-4936, 2021 (SCI-Expanded)
- II. **Performance Analysis of Quantized Uplink Massive MIMO-OFDM with Oversampling under Adjacent Channel Interference**
ÜÇÜNCÜ A. B., Bjornson E., Johansson H., YILMAZ A. Ö., Larsson E. G.
IEEE Transactions on Communications, vol.68, no.2, pp.871-886, 2020 (SCI-Expanded)
- III. **Oversampling in One-Bit Quantized Massive MIMO Systems and Performance Analysis**
ÜÇÜNCÜ A. B., YILMAZ A. Ö.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol.17, no.12, pp.7952-7964, 2018 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **An Iterative Distortion-Aware Precoding for Quantized Upsampled Wideband Massive MIMO**
Karabacakoglu Y., Üçüncü A. B., GÜVENSEN G. M.
2023 IEEE International Conference on Communications, ICC 2023, Rome, Italy, 28 May - 01 June 2023, vol.2023-May, pp.6498-6503
- II. **Ön-Kodlayıcı, A Quantized Precoder for MIMO Nicemleme Altında Çalışan bir MIMO**
Karabacakoglu Y., Üçüncü A. B., Karataş F., GÜVENSEN G. M.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023
- III. **Performance of One-Bit Massive MIMO With Oversampling Under Adjacent Channel Interference**
ÜÇÜNCÜ A. B., Bjornson E., Johansson H., YILMAZ A. Ö., Larsson E. G.
IEEE Global Communications Conference (GLOBECOM), Hawaii, United States Of America, 9 - 13 December 2019
- IV. **Uplink Performance Analysis of Oversampled Wideband Massive MIMO with One-Bit ADCs**
ÜÇÜNCÜ A. B., Yilmaz A. Ö.
88th IEEE Vehicular Technology Conference, VTC-Fall 2018, Illinois, United States Of America, 27 - 30 August 2018
- V. **Sequential Linear Detection in One-Bit Quantized Uplink Massive MIMO with Oversampling**
ÜÇÜNCÜ A. B., YILMAZ A. Ö.
88th IEEE Vehicular Technology Conference (VTC-Fall), Illinois, United States Of America, 27 - 30 August 2018
- VI. **Performance Analysis of Faster than Symbol Rate Sampling in 1-Bit Massive MIMO Systems**
ÜÇÜNCÜ A. B., YILMAZ A. Ö.
IEEE International Conference on Communications (ICC), Paris, France, 21 - 25 May 2017
- VII. **A New Sampling Method for Massive MIMO Systems**
ÜÇÜNCÜ A. B., YILMAZ A. Ö.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- VIII. **1 bit Nicemlemeli Çok Büyük Çoklu Girdili Çoklu Çıktılı Sistemlerde Aşırı Örnekleme**
ÜÇÜNCÜ A. B., YILMAZ A. Ö.
Aselsan HBT Çalıştayı, Turkey, 14 October 2016
- IX. **Yeni Nesil Çoklu Taşıyıcı Kipleme Çeşitlerinin Yükselteç Doğrusalsızlığı Altında Karşılaştırılması**
ÜÇÜNCÜ A. B., YILMAZ A. Ö.
SIU 2016, Turkey, 16 - 19 May 2016
- X. **Comparison of New Multi-carrier Modulation Schemes under Amplifier Nonlinearity**
ÜÇÜNCÜ A. B., YILMAZ A. Ö.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.249-252

Patent

Yılmaz A. Ö., Üçüncü A. B., QUANTIZED DETECTION IN UPLINK MIMO WITH OVERSAMPLING, Patent, CHAPTER H Electricity, The Invention Registration Number: 10447504 , Standard Registration, 2019

Metrics

Publication: 13

Citation (WoS): 28

Citation (Scopus): 44

H-Index (WoS): 2

H-Index (Scopus): 4