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Address: Elektronik ve Haberleşme Mühendisliği Bölümü Oda No:B-013 Davutpaşa Kampüsü/Yıldız Teknik Üniversitesi

Education Information

Doctorate, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 2015 - 2021

Postgraduate, Yıldız Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, Turkey 2013 - 2015

Undergraduate, Hatay Mustafa Kemal University, Faculty Of Engineering, Turkey 2006 - 2010

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, Çoklu Erişim Röle Kanallarında Evre Uyumsuz İşbirlikli İletişim Teknikleri, Yıldız Teknik Üniversitesi, Fen Bilimleri, Elektronik Ve Haberleşme Mühendisliği / Haberleşme Anabilimdalı, 2015

Research Areas

Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Yıldız Teknik Üniversitesi, Fen Bilimleri, Elektronik Ve Haberleşme Mühendisliği , 2013 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Performance modeling and analysis of the IEEE 802.11 MAC protocol for VANETs**
Karabulut M. A. , Shah A. S. , İlhan H.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.35, no.3, pp.1575-1587, 2020
(Journal Indexed in SCI Expanded)
- II. **Performance Optimization of Cluster-Based MAC Protocol for VANETs**
Shah A. S. , KARABULUT M. A. , İLHAN H., Tureli U.
IEEE ACCESS, vol.8, pp.167731-167738, 2020 (Journal Indexed in SCI)

- III. **OEC-MAC: A Novel OFDMA Based Efficient Cooperative MAC Protocol for VANETS**
KARABULUT M. A. , Shah A. S. , İLHAN H.
IEEE ACCESS, vol.8, pp.94665-94677, 2020 (Journal Indexed in SCI)
- IV. **Performance analysis of multiple access relay channels for non-coherent modulations**
Karabulut M. A. , Özdemir O., İlhan H.
PHYSICAL COMMUNICATION, vol.34, pp.1-8, 2019 (Journal Indexed in SCI)

Books & Book Chapters

- I. **Performance Modeling and Analysis of the IEEE 802.11 EDCAF for VANETS**
Shah A. F. M. S. , Karabulut M. A. , İlhan H.
in: Intelligent Systems and Applications, Arai K., Kapoor S., Bhatia R., Editor, Springer International Publishing, Zug, pp.34-46, 2018
- II. **Çoklu Erişim Rôle Kanalında Evre Uyumsuz İletişim Teknikleri**
Karabulut M. A. , İlhan H., Özdemir Ö.
Lambert Academic Publishing, İstanbul, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Improvement of performance with MIMO Enabled MAC Protocol for VANETS**
Karabulut M. A. , Shah A. S. , İlhan H.
IEEE The Innovations in Intelligent Systems and Applications Conference (ASYU), İstanbul, Turkey, 15 - 17 October 2020, pp.1-4
- II. **Performance analysis of virtual noise based cooperative communication systems**
Ayhan Y. E. , Karabulut M. A. , İlhan H.
IEEE 28th Signal Processing and Communications Applications Conference (IEEE SIU 2020), Gaziantep, Turkey, 5 - 07 October 2020, pp.1-4
- III. **Performance analysis and power allocation for virtual noise based cooperative systems**
Ayhan Y. E. , Karabulut M. A. , İlhan H.
IEEE International Black Sea Conference on Communications and Networking (IEEE BLACKSEACOM), Odessa, Ukraine, 26 - 29 May 2020, pp.1-5
- IV. **Performance of the CR-MAC with Channel Fading and Capture Effect under Practical Traffic Scenarios for VANETS**
Karabulut M. A. , Shah A. S. , İlhan H.
IEEE 10th Annual Ubiquitous Computing, Electronics Mobile Communication Conference (UEMCON), New York, United States Of America, 10 - 12 October 2019, pp.647-652
- V. **Performance Optimization by Using Artificial Neural Network Algorithms in VANETS**
Karabulut M. A. , Shah A. S. , İlhan H.
IEEE 42nd International Conference on Telecommunications and Signal Processing (TSP), Budapest, Hungary, 1 - 03 July 2019, pp.633-636
- VI. **CoMACAV: Cooperative MAC protocol for autonomous vehicles**
Karabulut M. A. , Shah A. S. , İlhan H.
IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Sofija, Bulgaria, 3 - 05 July 2019, pp.1-5
- VII. **CR-MAC: Cooperative relaying MAC protocol for VANETS**
Karabulut M. A. , Shahen Shah A. S. , İlhan H.
2019 Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science, EBBT 2019, İstanbul, Turkey, 24 - 26 April 2019
- VIII. **The Performance of the IEEE 802.11 DCF for Different Contention Window in VANETS**

Karabulut M. A. , Shahen Shah A. S. , İlhan H.

41st International Conference on Telecommunications and Signal Processing, TSP 2018, Athens, Greece, 4 - 06 July 2018

- IX. **The effect of contention window size of the IEEE 802.11 dcf for VANETs VANET'ler için IEEE 802.11 DCF'in çekişme penceresi boyutu üzerindeki etkisi**
Karabulut M. A. , Shah A. S. , İlhan H.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- X. **The Effect of Co-channel Interference in DF Based MARC System with Relay Selection**
Karabulut M. A. , Aslan H., Özdemir Ö., İlhan H.
IEEE 10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.1-5
- XI. **Performance modeling and analysis of the IEEE 802.11 DCF for VANETs**
Karabulut M. A. , Shahen Shah A. S. , İlhan H.
9th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, ICUMT 2017, Munich, Germany, 6 - 08 November 2017, pp.346-351
- XII. **Effect of co-channel interference in MARC system Ortak Kanal Girişiminin MARC Sistemine Etkisi**
Karabulut M. A. , İlhan H.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XIII. **Channel estimation by using ANN in DF based cooperative communication system**
Karabulut M. A. , Çukur H., İlhan H., Yıldırım T.
National Conference on Electrical, Electronics and Biomedical Engineering (ELECO 2016), Bursa, Turkey, 01 December 2016 - 03 December 2017, pp.590-593
- XIV. **Performance analysis of cooperative system with best relay selection in presence of co-channel interference**
Aslan H., Karabulut M. A. , İlhan H., Özdemir Ö.
16th International Conference on Electronics, Information, and Communication (ICEIC 2017), Phuket, Thailand, 11 - 14 January 2017, pp.25-31
- XV. **Relaying Selection Based Multiple Access Relay Channel**
Karabulut M. A. , Ozdemir O., İlhan H.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.369-372
- XVI. **Link adaptive relaying with non-coherent BFSK and DPSK modulations in multiple access relay channels**
Karabulut M. A. , İlhan H., Ozdemir O.
IEEE Wireless Telecommunications Symposium (WTS), New York, United States Of America, 15 - 17 April 2015, pp.1-5
- XVII. **Differential Modulation Based Network Coded Cooperative Communications**
Karabulut M. A. , İlhan H., Ozdemir O.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.523-526
- XVIII. **Network Coded Noncoherent Cooperative Communications**
Karabulut M. A. , İlhan H., Ozdemir O.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.943-946

Supported Projects

İlhan H., TUBITAK Project, Hareketli küme tabanlı taşıtlara ilişkin geçici ağlar (VANET) için etkin ve güvenilir işbirlikli MAC protokolü, 2019 - 2020

İlhan H., Karabulut M. A. , Project Supported by Higher Education Institutions, Medium access control (MAC) protocol design and analysis for cooperative communication systems, 2018 - 2020

İlhan H., Karabulut M. A. , Project Supported by Higher Education Institutions, Noncoherent communication techniques over multiple access relay channel, 2015 - 2016

Memberships / Tasks in Scientific Organizations

IEEE, Member, 2014 - Continues, United States Of America

Citations

Total Citations (WOS):15

h-index (WOS):2