

## Personal Information

**Web:** <https://avesis.yildiz.edu.tr/mali>

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

## Education Information

Doctorate, Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği / Haberleşme Anabilimdalı, Turkey 2015 - Continues

Post Graduate, Yıldız Teknik Üniversitesi, Elektrik Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği / Haberleşme Anabilimdalı, Turkey 2013 - 2015

Under Graduate, Mustafa Kemal Üniversitesi, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, Turkey 2006 - 2010

## Dissertations

Post Graduate, 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

- **OEC-MAC: A Novel OFDMA Based Efficient Cooperative MAC Protocol for VANETS**  
Karabulut M. A. , Shah A. F. M. S. , İlhan H.  
IEEE Access, vol.8, pp.94665-94677, 2020 (Journal Indexed in SCI Expanded)
- **Performance Modeling and Analysis of the IEEE 802.11 MAC Protocol for VANETS**  
Karabulut M. A. , Shah A. F. M. S. , İlhan H.  
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.35, pp.1575-1587, 2020 (Journal Indexed in SCI Expanded)
- **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)

## Book & Book Chapters

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

## Refereed Congress / Symposium Publications in Proceedings

- **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 Ekim 2020, pp.1-4
- **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), Odesa, Ukraine, 26 - 29 Mayıs 2020, pp.1-5
- **Performance of the CR-MAC with Channel Fading and Capture Effect under Practical Traffic Scenarios for VANETs**  
KARABULUT M. A. , SHAH A. F. M. S. , İLHAN H.  
2019 IEEE 10th Annual Ubiquitous Computing, Electronics Mobile Communication Conference (UEMCON), New York City, NY, USA, United States Of America, 10 - 12 Ekim 2019, pp.647-652
- **Performance Optimization by Using Artificial Neural Network Algorithms in VANETs**  
KARABULUT M. A. , SHAH A. F. M. S. , İLHAN H.  
2019 42nd International Conference on Telecommunications and Signal Processing (TSP), Budapest, Hungary, Hungary, 1 - 03 Temmuz 2019
- **CoMACAV: Cooperative MAC protocol for autonomous vehicles**  
Karabulut M. A. , Shah A. F. M. S. , İlhan H.  
International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Sofija, Bulgaria, 3 - 05 Temmuz 2019, pp.1-5
- **CR-MAC: Cooperative relaying MAC protocol for VANETs**  
Karabulut M. A. , Shahan Shah A., İlhan H.  
2019 Scientific Meeting on Electrical-Electronics and Biomedical Engineering and Computer Science, EBBT 2019, İstanbul, Turkey, 24 - 26 Nisan 2019
- **The Performance of the IEEE 802.11 DCF for Different Contention Window in VANETs**  
Karabulut M. A. , Shahan Shah A., İlhan H.  
41st International Conference on Telecommunications and Signal Processing, TSP 2018, Athens, Greece, 4 - 06 Temmuz 2018
- **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. F. M. S. , İlhan H.  
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 Mayıs 2018, pp.1-4
- **The Effect of Co-channel Interference in DF Based MARC System with Relay Selection**  
Karabulut M. A. , Aslan H., Özdemir Ö., İlhan H.  
The 10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 Kasım - 02 Aralık 2017, pp.1-5
- **Performance modeling and analysis of the IEEE 802.11 DCF for VANETs**  
Karabulut M. A. , Shahan Shah A., İlhan H.  
9th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops, ICUMT 2017, Munich, Germany, 6 - 08 Kasım 2017, pp.346-351
- **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 Mayıs 2017
- **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

Aralık 2016 - 03 Aralık 2017, pp.1-4

- **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 Ocak 2017, pp.25-31

- **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 Mayıs 2016, pp.369-372

- **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 Nisan 2015, pp.1-5

- **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 Mayıs 2015, pp.523-526

- **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 Nisan 2014, pp.943-946

## Supported Projects

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

## Citations

Total Citations (WOS):1

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