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Öğrenim Bilgisi

Bütünleşik Doktora 2014 23/Temmuz/2018	İSTANBUL MEDİPOL ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ/ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ VE SİBER SİSTEMLER (DR) Tez adı: Advanced cross-layer secure communication designs for future wireless systems (2018) Tez Danışmanı:(HÜSEYİN ARSLAN)
Lisans 2008 23/Mayıs/2013	An-Najah Üniversitesi Telelcommunication Engineering

Görevler

DOKTOR ÖĞRETİM ÜYESİ 2018	ANTALYA BİLİM ÜNİVERSİTESİ/MÜHENDİSLİK FAKÜLTESİ/ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ/ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ PR. (İNGİLİZCE) (TAM BURSLU) (Wireless Technologies)
ARAŞTIRMA GÖREVLİSİ 2014-2018	İSTANBUL MEDİPOL ÜNİVERSİTESİ/MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ/ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ/ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ PR. (İNGİLİZCE) (TAM BURSLU) (Researcher on Wireless Communication and Wireless Security)
ARAŞTIRMA GÖREVLİSİ 2013-2014	TEXAS A AND M UNIVERSITY/Engineering/Electrical and Computer Department/Wireless Research Group of TAMUQ)

Yönetilen Tezler

Doktora

2018

1. HAMAMREH JEHAD MAHMOUD AMIN, (2018). Advanced cross-layer secure communication designs for future wireless systems, İstanbul Medipol Üniversitesi->Fen Bilimleri Enstitüsü->Elektrik-Elektronik Mühendisliği Anabilim Dalı

Projelerde Yaptığı Görevler:

1. Physical Layer Security for Wireless Systems: Designing and developing new physicalsecurity methods., -Tübitak 1001, Araştırmacı:HAMAMREH JEHAD MAHMOUD AMIN, , 10/09/2014 - 10/09/2017 (ULUSAL)
2. Novel Advanced Non-Orthogonal Multiple Access Schemes For Enhancing Communication Security And Reliability Of Future Low-Complexity, Massive Machine Type Communications, -Tübitak 3501,

Yürütücü:HAMAMREH JEHAD MAHMOUD AMIN, , 15/03/2020 (Devam Ediyor) (ULUSAL)

3. Non-Coherent Ofdm-Subcarrier Power Modulation For Low Complexity And High Throughput Iot Applications, -Tübitak 1002, Yürütücü:HAMAMREH JEHAD MAHMOUD AMIN, , 01/12/2019 (Devam Ediyor) (ULUSAL)

İdari Görevler

Erasmus Koordinatörü 2019	ANTALYA BİLİM ÜNİVERSİTESİ/MÜHENDİSLİK FAKÜLTESİ

Dersler *

	Öğrenim Dili	Ders Saati
2019-2020		
Lisans		
Introduction to Communication	İngilizce	3
5G and Beyond Technologies	İngilizce	3
Digital Communications	İngilizce	3
Yüksek Lisans		
Wireless Communications	İngilizce	3
Advanced 5G Technologies	İngilizce	3
2018-2019		
Lisans		
Introduction to Communication	İngilizce	3
5G and Beyond Technologies	İngilizce	3
Digital Communications	İngilizce	3
Yüksek Lisans		
Wireless Communications	İngilizce	3
Advanced 5G Technologies	İngilizce	3

Patentler

1. KANAL TEMELLİ DÖNÜŞÜM KULLANAN GÜVENLİ VE UYUM SAĞLAYAN DİKGEN BÖLMELİ DALGA ŞEKİLLERİ ÇOĞULLAMA SİSTEMİ (2017), Patent No: 2017-GE-432309
Patent Başvuru Sahipleri : JEHAD M. HAMAMREH,Hüseyin Arslan, Patent Buluş Sahipleri : JEHAD M. HAMAMREH,Hüseyin Arslan

2. AUTOMATIC REPEAT/REQUEST SYSTEM FOR PROVIDING ABSOLUTE SAFETY AND AUTHENTICATION IN WIRELESS NETWORKS (2019), Patent No: WO2019209225
Patent Başvuru Sahipleri : Hüseyin Arslan,Jehad M. Hamamreh, Patent Buluş Sahipleri : Hüseyin Arslan,Jehad M. Hamamreh

3. UYARLANABİLİR MODÜLASYON KATSAYILI BİR DİKEY FREKANS BÖLMELİ ÇOKLAMA YÖNTEMİ (2018), Patent No: 2018-GE-571010
Patent Başvuru Sahipleri : Hüseyin ARSLAN,Haji M. FURQAN,Jehad M. HAMAMREH, Patent Buluş Sahipleri : Hüseyin ARSLAN,Haji M. FURQAN,Jehad M. HAMAMREH

4. KONUM AYARLI ALT TAŞIYICI SAYI MODÜLASYONLU BİR DİKEY FREKANS BÖLMELİ ÇOKLAMA KULLANILAN BİR VERİ İLETİM YÖNTEMİ (2018), Patent No: 2018-GE-572428
Patent Başvuru Sahipleri : Hüseyin Arslan,AHMAD M. JARADAT,JEHAD M. HAMAMREH, Patent Buluş Sahipleri : Hüseyin Arslan,AHMAD M. JARADAT,JEHAD M. HAMAMREH

5. **Data transmission method using location adjusted, sub carrier number modulation, orthogonal frequency division multiplexing** (2020), Patent No: WO2020142044A1
Patent Başvuru Sahipleri : Hüseyin ARSLAN,Jehad M. HAMAMREH,Ahmad M. JARADAT, Patent Buluş Sahipleri : Hüseyin ARSLAN,Jehad M. HAMAMREH,Ahmad M. JARADAT

6. **A SECURE AND ADAPTIVE ORTHOGONAL DIVISION WAVEFORMS MULTIPLEXING SYSTEM USING CHANNEL-BASED TRANSFORMATION** (2019), Patent No: WO/2019/098973
Patent Başvuru Sahipleri : Jehad M. Hamamreh,Hüseyin Arslan, Patent Buluş Sahipleri : Jehad M. Hamamreh,Hüseyin Arslan

7. **Kablosuz Ağlarda Mutlak Güvenlik Ve Kimlik Doğrulaması Sağlaması İçin Otomatik Tekrar Talep Sistemi** (2017), Patent No: 2017-GE-561616
Patent Başvuru Sahipleri : JEHAD M. HAMAMREH,Hüseyin Arslan, Patent Buluş Sahipleri : JEHAD M. HAMAMREH,Hüseyin Arslan

Eserler

Uluslararası hakemli dergilerde yayımlanan makaleler:

1. Furqan Haji M,HAMAMREH JEHAD MAHMOUD AMIN,Arslan Huseyin (2020). New Physical Layer Key Generation Dimensions: Subcarrier Indices/Positions-Based Key Generation. IEEE Communications Letters, 1-1. (Yayın No: 6521147)
2. Lemayian Joel Poncha,HAMAMREH JEHAD MAHMOUD AMIN (2020). Massive MIMO Channel Prediction Using Recurrent Neural Networks. RS Open Journal on Innovative Communication Technologies, 1(1), Doi: 10.46470/03d8ffbd.80623473 (Yayın No: 6571861)
3. HAMAMREH JEHAD MAHMOUD AMIN,Abewa Mohamedou (2020). Non-coherent OFDM-Subcarrier Power Modulation for Low Complexity and High Throughput IoT Applications. RS Open Journal on Innovative Communication Technologies, 1(1) (Yayın No: 6571851)
4. HAMAMREH JEHAD MAHMOUD AMIN,Hajar Abdulwahab,Abewa Mohamedou (2020). Orthogonal frequency division multiplexing with subcarrier power modulation for doubling the spectral efficiency of 6G and beyond networks. Transactions on Emerging Telecommunications Technologies, 31(4) (Yayın No: 6521108)
5. Jaradat Ahmad M,HAMAMREH JEHAD MAHMOUD AMIN,Arslan Huseyin (2020). OFDM With Hybrid Number and Index Modulation. IEEE Access, 8, 55042-55053. (Yayın No: 6521156)
6. Jaradat Ahmad,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2019). Modulation Options for OFDM-Based Waveforms: Classification, Comparison, and Future Directions. IEEE Access, 7, 17263-17278., Doi: 10.1109/ACCESS.2019.2895958 (Yayın No: 5014131)
7. Jaradat Ahmad,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2018). OFDM With Subcarrier Number Modulation. IEEE Wireless Communications Letters, 7(6), 914-917., Doi: 10.1109/LWC.2018.2839624 (Yayın No: 5014136)
8. HAMAMREH JEHAD MAHMOUD AMIN,Ankarali Zekeriyya Esat,ARSLAN HÜSEYİN (2018). CP-Less OFDM With Alignment Signals for Enhancing Spectral Efficiency, Reducing Latency, and Improving PHY Security of 5G Services. IEEE Access, 6, 63649-63663., Doi: 10.1109/ACCESS.2018.2877321 (Yayın No: 5014134)
9. Furqan Haji M,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2018). Adaptive OFDM-IM for Enhancing Physical Layer Security and Spectral Efficiency of Future Wireless Networks. Wireless Communications and Mobile Computing, 2018, 1-16., Doi: 10.1155/2018/3178303 (Yayın No: 5014141)
10. HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2018). Joint PHY/MAC Layer Security Design Using ARQ With MRC and Null-Space Independent PAPR-Aware Artificial Noise in SISO Systems. IEEE Transactions on Wireless Communications, 17(9), 6190-6204., Doi: 10.1109/TWC.2018.2855163 (Yayın No: 5014135)
11. HAMAMREH JEHAD MAHMOUD AMIN,Furqan Haji M,ARSLAN HÜSEYİN (2018). Classifications and Applications of Physical Layer Security Techniques for Confidentiality: A Comprehensive Survey. IEEE Communications Surveys Tutorials, 1773-1828., Doi: 10.1109/COMST.2018.2878035 (Yayın No: 5014140)
12. Guvenkaya Ertugrul,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2017). On physical-layer concepts and metrics in secure signal transmission. Physical Communication, 25, 14-25., Doi: 10.1016/j.phycom.2017.08.011 (Yayın No: 5014142)
13. HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2017). Secure Orthogonal Transform Division Multiplexing (OTDM) Waveform for 5G and Beyond. IEEE Communications Letters, 21(5), 1191-1194., Doi: 10.1109/LCOMM.2017.2651801 (Yayın No: 5014138)

Uluslararası hakemli dergilerde yayımlanan makaleler:

14. HAMAMREH JEHAD MAHMOUD AMIN,BAŞAR ERTUĞRUL,ARSLAN HÜSEYİN (2017). OFDM-Subcarrier Index Selection for Enhancing Security and Reliability of 5G URLLC Services. IEEE Access, 5, 25863-25875., Doi: 10.1109/ACCESS.2017.2768558 (Yayın No: 5014137)

15. HAMAMREH JEHAD MAHMOUD AMIN,El-Sallabi Hassan,Qaraqe Khalid (2014). Impact of Client Antenna's Rotation Angle and Height of 5g Wi-Fi Access Point on Indoor Amount of Fading. International Journal of Wireless Mobile Networks, 6(2), 21-33. (Yayın No: 6551509)

B. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitaplarında (proceedings) basılan bildiriler :

1. HAMAMREH JEHAD MAHMOUD AMIN (2020). An Advanced NOMA Security Technique forFuture Wireless Communication. 2020 28th International Conference on Software, Telecommunications and ComputerNetworks (SoftCOM 2020 conjoint event)Technically cosponsored by IEEE Communications Society (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6576016)

2. Furqan Haji M,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2020). Secure and Reliable IoT Communications Using Nonorthogonal Signals' Superposition with Dual-Transmission. 2020 IEEE 31st Annual International Symposium on Personal, Indoor and Mobile Radio Communications, Doi: 10.1109/PIMRC48278.2020.9217261 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6540286)

3. Jaradat Ahmad,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2020). Orthogonal Frequency Division Multiplexing With Subcarrier Gap Modulation. 2020 IEEE 31st Annual International Symposium on Personal, Indoor and Mobile Radio Communications, Doi: 10.1109/PIMRC48278.2020.9217187 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6540276)

4. Lemayian Joel Poncha,HAMAMREH JEHAD MAHMOUD AMIN (2020). Novel Small-Scale NOMA Communication Technique Using Auxiliary Signal Superposition. 2020 International Conference on UK-China Emerging Technologies (UCET), Doi: 10.1109/UCET51115.2020.9205475 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6540251)

5. Kırık Muhammet,HAMAMREH JEHAD MAHMOUD AMIN (2020). Multiple MIMO with Antenna Number Modulation. 2020 International Conference on UK-China Emerging Technologies (UCET), Doi: 10.1109/UCET51115.2020.9205485 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6540268)

6. Lemayian Joel Poncha,HAMAMREH JEHAD MAHMOUD AMIN (2020). Recurrent Neural Network-based Channel Prediction in mMIMO for Enhanced Performance in Future Wireless Communication. 2020 International Conference on UK-China Emerging Technologies (UCET), Doi: 10.1109/UCET51115.2020.9205452 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6540259)

7. Belallou Youcef,Hajar Abdulwahab,HAMAMREH JEHAD MAHMOUD AMIN (2019). OFDM-Subcarrier Power Modulation With Two Dimensional Signal Constellations. 2019 Innovations in Intelligent Systems and Applications Conference (ASYU), Doi: 10.1109/ASYU48272.2019.8946346 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6540249)

8. Lemayian Joel Poncha,HAMAMREH JEHAD MAHMOUD AMIN (2019). First Responder Drones for Critical Situation Management. 2019 Innovations in Intelligent Systems and Applications Conference (ASYU), Doi: 10.1109/ASYU48272.2019.8946353 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6540228)

9. Hajar Abdulwahab,HAMAMREH JEHAD MAHMOUD AMIN,Abewa Mohamedou,Belallou Youcef (2019). A Spectrally Efficient OFDM-Based Modulation Scheme for Future Wireless Systems. 2019 Scientific Meeting on Electrical-Electronics Biomedical Engineering and Computer Science (EBBT), Doi: 10.1109/EBBT.2019.8742049 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:6540223)

10. HAMAMREH JEHAD MAHMOUD AMIN,Furqan Haji M,Ali Zain,Guftaar Ahmad Sardar Sidhu (2017). Enhancing the Security Performance of OSTBC Using Pre-Equalicodization. 2017 International Conference on Frontiers of Information Technology (FIT), Doi: 10.1109/FIT.2017.00059 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014154)

11. HAMAMREH JEHAD MAHMOUD AMIN,Furqan Haji M,Ali Zain,Guftaar Ahmad Sardar Sidhu (2017). An Efficient Security Method Based on Exploiting Channel State Information (CSI). 2017 International Conference on Frontiers of Information Technology (FIT), Doi: 10.1109/FIT.2017.00058 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014153)

12. HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2017). Time-frequency characteristics and PAPR reduction of OTDM waveform for 5G and beyond. 2017 10th International Conference on Electrical and Electronics Engineering (ELECO) (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014145)

13. Furqan Haji M,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2017). Enhancing physical layer security of OFDM systems using channel shortening. 2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Doi: 10.1109/PIMRC.2017.8292335 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014149)

14. HAMAMREH JEHAD MAHMOUD AMIN,Furqan Haji M,ARSLAN HÜSEYİN (2017). Secure pre-coding and post-coding for OFDM systems along with hardware implementation. 2017 13th International Wireless Communications and Mobile Computing Conference (IWCMC), Doi: 10.1109/IWCMC.2017.7986479 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014146)

15. Furqan Haji M,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2017). Secure communication via untrusted switchable decode-and-forward relay. 2017 13th International Wireless Communications and Mobile Computing Conference (IWCMC), Doi: 10.1109/IWCMC.2017.7986478 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014147)

16. Furqan Haji M,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN (2016). Secret key generation using channel quantization with SVD for reciprocal MIMO channels. 2016 International Symposium on Wireless Communication Systems (ISWCS), Doi: 10.1109/ISWCS.2016.7600974 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014150)

17. HAMAMREH JEHAD MAHMOUD AMIN,Güvenkaya Ertuğrul,Baykaş Tuncer,ARSLAN HÜSEYİN (2016). A practical physical-layer security method for precoded OSTBC-based systems. 2016 IEEE Wireless Communications and Networking Conference, Doi: 10.1109/WCNC.2016.7564990 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014151)

18. HAMAMREH JEHAD MAHMOUD AMIN,Marvan Yusuf,Baykaş Tuncer,ARSLAN HÜSEYİN (2016). Cross MAC/PHY layer security design using ARQ with MRC and adaptive modulation. 2016 IEEE Wireless Communications and Networking Conference, Doi: 10.1109/WCNC.2016.7564987 (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5014152)

C. Yazılan ulusal/uluslararası kitaplar veya kitaplardaki bölümler:

C2. Yazılan ulusal/uluslararası kitaplardaki bölümler:

1. Flexible and Cognitive Radio Access Technologies for 5G and Beyond, Bölüm adı:(Generalized and Flexible Modulation Options) (2020)., Jaradat Ahmad,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN, IET, Editör:Hüseyin Arslan, Ertuğrul Başar, Basım sayısı:1, ISBN:978-1839530791, İngilizce(Bilimsel Kitap), (Yayın No: 6526949)

2. Internet of Nano-Things and Wireless Body Area Networks (WBAN), Bölüm adı:(mm-Waves in the Internet of Nano-Things) (2020)., HAMAMREH JEHAD MAHMOUD AMIN,alturjuman fadi, taylorfrancis, Editör:Fadi Al-Turjman, Basım sayısı:1, ISBN:9780429243707, İngilizce(Bilimsel Kitap), (Yayın No: 6526909)

3. Smart Cities, Performability, Cognition and Security, Bölüm adı:(An Effective Design for Polar Codes over Multipath Fading Channels) (2019)., HAMAMREH JEHAD MAHMOUD AMIN, Springer, Editör:Fadi Al-Turjman, Basım sayısı:1, ISBN:978-3-030-14717-4, İngilizce(Bilimsel Kitap), (Yayın No: 6526890)

4. Drones in IoT-enabled Spaces, Bölüm adı:(Grid-Based UAV Placement in Intelligent Transportation Systems) (2019)., alturjuman sinam,alturjuman fadi,HAMAMREH JEHAD MAHMOUD AMIN, taylorfrancis, Editör:Fadi Al-Turjman, Basım sayısı:1, ISBN:9780367266387, İngilizce(Bilimsel Kitap), (Yayın No: 6526930)

5. Flexible and Cognitive Radio Access Technologies for 5G and Beyond, Bölüm adı:(Physical Layer Security Designs for 5G and Beyond,) (2019)., Furqan Haji M,HAMAMREH JEHAD MAHMOUD AMIN,ARSLAN HÜSEYİN, IET, Editör:Hüseyin Arslan, Ertuğrul Başar, Basım sayısı:1, ISBN:978-1839530791, İngilizce(Bilimsel Kitap), (Yayın No: 6526952)

6. Drones in IoT-enabled Spaces, Bölüm adı:(Security in UAV/Drone Communications) (2019)., HAMAMREH JEHAD MAHMOUD AMIN,alturjuman fadi, taylorfrancis, Editör:Fadi Al-Turjman, Basım sayısı:1, ISBN:9780367266387, İngilizce(Bilimsel Kitap), (Yayın No: 6526900)

7. Artificial Intelligiance in IoT, Bölüm adı:(Improving the Physical Layer Security of IoT-5G Systems) (2019)., HAMAMREH JEHAD MAHMOUD AMIN, Springer, Editör:Fadi Al-Turjman, Basım sayısı:1, ISBN:978-3-030-04110-6, İngilizce(Bilimsel Kitap), (Yayın No: 6526859)

Üniversite Dışı Deneyim

2013-2014	RESEARCH ASSISTANT with the wireless research group of TAMUQ	Department of Electrical and Computer Engineering at Texas A and M University at Qatar (TAMUQ), (Yurtdışı Üniversite)