

Prof. Tansal GÜÇLÜOĞLU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: Q-2680-2015

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Biography

Tansal Gucluoglu received the B.S. degree from Middle East Technical University, Ankara, the M.S. degree from Syracuse University and the Ph.D. degree from Arizona State University. He worked as an R&D Engineer for four years in Ankara and New York. He was a Research Associate and a Teaching Associate at Arizona State University. He has been working as a faculty member since 2006. His research interests include communication theory, wireless communication networks, signal processing, channel coding/decoding and artificial intelligence algorithms.

Education Information

Doctorate, Arizona State University, Mühendislik, Elektrik Mühendisliği, United States Of America 2001 - 2006

Postgraduate, Syracuse University, Mühendislik, Elektrik Mühendisliği Ve Bilgisayar Bilimleri, United States Of America 2000 - 2001

Undergraduate, Middle East Technical University, Faculty Of Engineering, Elektrik Ve Elektronik Mühendisliği, Turkey 1992 - 1997

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, REDUCED COMPLEXITY ALGORITHMS FOR SPACE-TIME CODED SYSTEMS OVER FREQUENCY-SELECTIVE FADING CHANNELS, Arizona State University, 2006

Research Areas

Information Systems, Communication and Control Engineering, Communication Engineering, Signal Processing, Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2023 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2016 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electronics And Communication Engineering, 2012 - 2016

Assistant Professor, Kadir Has University, Faculty Of Engineering And Natural Sciences, Department Of Electrical And Electronics Engineering, 2006 - 2012

Courses

Telsiz İletişim ağları, Postgraduate, 2021 - 2022

Haberleşme 2, Undergraduate, 2021 - 2022

Veri İletişim Sistemleri, Postgraduate, 2021 - 2022

Veri Haberleşmesi, Undergraduate, 2021 - 2022

Advising Theses

Güçlüoğlu T., Performance of Generalized Frequency Division Multiplexing (GFDM) over free space optical links, Doctorate, M.SAMEER(Student), 2022

Güçlüoğlu T., NESNELERİN İNTERNETİ TEKNOLOJİSİNDE KABLOSUZ SENSÖR AĞLARI İÇİN ENERJİ VERİMLİ K-MEANS OPTİMİZASYONU, Postgraduate, M.SANCAKLI(Student), 2022

Güçlüoğlu T., Performance analysis of generalized-k fading channels in vehicular communications, Doctorate, K.ASLAN(Student), 2021

Güçlüoğlu T., Maximal ratio transmission based multiple antenna relaying systems with interference, Doctorate, A.A.M.ALI(Student), 2020

Güçlüoğlu T., Performance of free space optical communication systems, Postgraduate, A.ABSHIR(Student), 2018

Güçlüoğlu T., MRT tabanlı genelleştirilmiş frekans bölmeli çoğullamalı sistemlerin analizi, Postgraduate, A.YENİLMEZ(Student), 2017

Güçlüoğlu T., Wi-Fi based restaurant automation system, Postgraduate, K.İZZET(Student), 2017

Güçlüoğlu T., Internet protocol security ile noktadan noktaya güvenli ağ tasarımı ve performans analizi, Postgraduate, N.BABAYİĞİT(Student), 2017

GÜÇLÜOĞLU T., Telsiz Kanallar için Kanal Ölçümü, Postgraduate, E.Taşdemir(Student), 2016

Güçlüoğlu T., Calculation of maximum spectral efficiency for multi-user massive MIMO system, Postgraduate, O.NAZAR(Student), 2016

GÜÇLÜOĞLU T., ANTEN VE RÖLE SEÇİMLİ İŞBİRLİKLİ HABERLEŞME SİSTEMLERİNİN GENELLEŞTİRİLMİŞ-K KANALLARDA HATA BAŞARIM PERFORMANSI, Postgraduate, S.AKTAŞOĞLU(Student), 2016

GÜÇLÜOĞLU T., DONANIMSAL TRUVA ATI İÇİN İŞARET İŞLEME, Postgraduate, K.ASLAN(Student), 2016

GÜÇLÜOĞLU T., Girişim Gürültüleri Seçimi, Postgraduate, A.Ghasemi(Student), 2016

GÜÇLÜOĞLU T., EN İYİ ORANLI İLETİM TABANLI İŞBİRLİKLİ OFDM SİSTEMİN ANALİZİ, Postgraduate, Ö.GÜÇER(Student), 2016

GÜÇLÜOĞLU T., LTE sistemlerindeki ses iletiminin performansının değerlendirilmesi, Postgraduate, A.Mohammed(Student), 2016

Güçlüoğlu T., Energy efficiency of massive MIMO systems, Postgraduate, M.SAADALLAH(Student), 2016

GÜÇLÜOĞLU T., YER ALTI ULAŞIM SİSTEMLERİNDE KABLOSUZ GÖRÜNTÜ AKTARIMI BAŞARIMI, Postgraduate, H.DOĞAN(Student), 2016

GÜÇLÜOĞLU T., Çoklu Röleli ağlarda Düşük Karmaşıklık En-iyi İletim Yaklaşımlarının Başarım Analizi, Doctorate,

E.ERDOĞAN(Student), 2016

Güçlüoğlu T., IŞIN DEMETLEMESİ İLE HEDEF TESPİTİ, Postgraduate, Y.KARAKAYA(Student), 2015

Jury Memberships

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, December, 2022

Doctorate, Doctorate, Özyeğin Üniversitesi, May, 2022

Doctorate, Doctorate, Özyeğin Üniversitesi, May, 2022

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, February, 2021

Doctorate, Doctorate, Kadir Has Üniversitesi, January, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kadir Has Üniversitesi, January, 2020

Doctorate, Doctorate, Kadir Has Üniversitesi, January, 2020

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, February, 2018

Doctoral Examination, Doktora Yeterlik Sınavı, Yıldız Teknik Üniv., March, 2017

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, May, 2016

Doctorate, Doktora Tez SAVunma, İstanbul Teknik Üniversitesi, December, 2014

Doctorate, Doktora Tez Savunma, Yıldız Teknik Üniversitesi, February, 2014

Doctorate, Doktora Tez Savunma, Gebze Teknik Üniversitesi, September, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Performance Analysis of Downlink-NOMA Over Málaga Distributed Optical Links**
Aslan K., GÜÇLÜOĞLU T.
Wireless Personal Communications, vol.138, no.2, pp.1247-1271, 2024 (SCI-Expanded)
- II. **Exact analysis of maximal ratio transmission-based decode-and-forward relaying with arbitrary number of co-channel interferers**
Aladwani A., Güçlüoğlu T.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.5495, no.1, pp.1-20, 2023 (SCI-Expanded)
- III. **Modulated relay based stable election protocol for large scale wireless sensor networks**
Hamad L. I. S., Dağ T., Güçlüoğlu T.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.36, no.2, pp.1-19, 2023 (SCI-Expanded)
- IV. **Performance analysis of NOMA uplink transmission over generalized-K fading channels**
Aslan K., Gucluoglu T.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.35, no.6, 2022 (SCI-Expanded)
- V. **Performance analysis of downlink-NOMA over generalized-k fading channels**
Aslan K., Güçlüoğlu T.
PHYSICAL COMMUNICATION, vol.48, 2021 (SCI-Expanded)
- VI. **Maximum Ratio Transmission Based Generalized Frequency Division Multiplexing over Gamma-Gamma Channel**
Ahmed M. S., Güçlüoğlu T.
OPTICS COMMUNICATIONS, vol.492, 2021 (SCI-Expanded)
- VII. **Performance of maximal ratio transmission over generalised-K fading channels**
Aslan K., Güçlüoğlu T.
IET COMMUNICATIONS, vol.14, pp.3440-3447, 2020 (SCI-Expanded)
- VIII. **Performance of generalized frequency division multiplexing over gamma gamma free space optical link**
Ahmed M. S., Güçlüoğlu T.
OPTICS COMMUNICATIONS, vol.466, 2020 (SCI-Expanded)

- IX. **Performance analysis of maximum ratio transmission based FSO link over Malaga turbulence channel**
Ibrahim A., Güçlüoğlu T.
OPTICS COMMUNICATIONS, vol.450, pp.341-346, 2019 (SCI-Expanded)
- X. **Impact of Co-Channel Interference on Two-Way Relaying Networks with Maximal Ratio Transmission**
Aladwami A., Erdoğan E., Güçlüoğlu T.
ELECTRONICS, vol.8, 2019 (SCI-Expanded)
- XI. **Performance analysis of two way decode and forward relay network with maximum ratio transmission**
Sahin Y., Erdoğan E., Güçlüoğlu T.
PHYSICAL COMMUNICATION, vol.32, pp.75-80, 2019 (SCI-Expanded)
- XII. **Analysis and Optimization Study of Antenna Selection in Dual Hop Relay Networks over Weibull Fading Channels**
Erdoğan E., Güçlüoğlu T.
WIRELESS PERSONAL COMMUNICATIONS, vol.101, pp.1839-1850, 2018 (SCI-Expanded)
- XIII. **Performance Analysis of Maximal Ratio Transmission with Relay Selection in Two-way Relay Networks Over Nakagami-m Fading Channels**
Erdogan E., Güçlüoğlu T.
WIRELESS PERSONAL COMMUNICATIONS, vol.88, pp.185-201, 2016 (SCI-Expanded)
- XIV. **Unified Analysis and Optimization Study of Antenna Selection in Two-Way Relay Networks**
Erdogan E., Afana A., Güçlüoğlu T., İkki S.
IEEE WIRELESS COMMUNICATIONS LETTERS, vol.5, pp.216-219, 2016 (SCI-Expanded)
- XV. **Dual-Hop Amplify-and-Forward Multi-Relay Maximum Ratio Transmission**
Erdogan E., Güçlüoğlu T.
JOURNAL OF COMMUNICATIONS AND NETWORKS, vol.18, pp.19-26, 2016 (SCI-Expanded)
- XVI. **Simple outage probability bound for two-way relay networks with joint antenna and relay selection over Nakagami-m fading channels**
Erdogan E., Güçlüoğlu T.
ELECTRONICS LETTERS, vol.51, pp.416-417, 2015 (SCI-Expanded)
- XVII. **Performance analysis of transmit and receive antenna selection over flat fading channels**
Gucluoglu T., Duman T. M.
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol.7, pp.3056-3065, 2008 (SCI-Expanded)
- XVIII. **Performance of transmit and receive antenna selection in the presence of channel estimation errors**
Gucluoglu T., Panayirci E.
IEEE COMMUNICATIONS LETTERS, vol.12, pp.371-373, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Depth Analysis in Deep Learning-Based Automatic Modulation Classification**
Kaya O., Güçlüoğlu T., İlhan H.
Havacılık ve Uzak Teknolojileri Dergisi, vol.17, no.2, pp.18-45, 2024 (Peer-Reviewed Journal)
- II. **Convolutional Neural Networks for Automatic Modulation Classification**
Kaya O., Güçlüoğlu T.
Avrupa Bilim ve Teknoloji Dergisi, vol.44, no.1, pp.93-96, 2022 (Conference Book)
- III. **Coded OFDM with Antenna Selection Based on Subcarrier Groups**
Remlein P., Cogalan T., Güçlüoğlu T.
Mediterranean Journal of Computers and Networks, vol.10, no.1, pp.165-169, 2014 (Peer-Reviewed Journal)
- IV. **Space Time Turbo Coded OFDM with Joint Transmit and Receive Antenna Selection**
Güçlüoğlu T., Remlein P.
Advances in Electronics and Telecommunications, vol.2, pp.63-67, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Outage Probability Analysis of Multiple-Antenna NOMA over Generalized-K Channels**
Altın G., Güçlüoğlu T.
IEEE Middle East and North Africa COMMUNICATIONS Conference , Amman, Jordan, 8 - 10 December 2022, pp.1-5
- II. **Li-Fi İle Uçak İçi İnternet Bağlantısında Farklı Geometrik Yerleşimlerin Performans Analizi**
Muratoğlu A., GÜÇLÜOĞLU T.
International Conference of Materials and Engineering Technology, Gaziantep, Turkey, 05 November 2021
- III. **K-Means Optimizasyonunun Mobil Sensör Ağ Yaşam Süresine Etkisi**
Sancaklı M., DAĞ T., GÜÇLÜOĞLU T.
Elektrik-Elektronik Mühendisliğinde Güncel Gelişmeler Sempozyumu (EEMGG), Trabzon, Turkey, 24 September 2021
- IV. **Increasing Energy Efficiency of WSNs Through Optimization of Mobile Base Station Locations**
Abbas S., DAĞ T., GÜÇLÜOĞLU T.
Sinyal İşleme ve Uygulamaları Kurultayı, Turkey, 09 June 2021
- V. **Spatial Modulation Over Generalized-k Fading**
Al-Shawabkeh M., DAĞ T., GÜÇLÜOĞLU T.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İstanbul, Turkey, 9 - 11 June 2021
- VI. **An Improved Hybrid Stable Election Routing Protocol for Large Scale WSNs**
Hamad L., DAĞ T., GÜÇLÜOĞLU T.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İstanbul, Turkey, 09 June 2021
- VII. **Cyber Physical Security Protection in Online Authentication Mechanisms for Banking Systems**
Jama A. Y., GÜÇLÜOĞLU T., Siraj M. M.
Computing Conference, London, Canada, 10 - 12 July 2018, vol.857, pp.1021-1031
- VIII. **Performance of Weibull and Exponentiated Weibull Fading in Amplify-and-Forward Relaying Systems**
Erdoğan E., Güçlüoğlu T., Remlein P.
11th International Symposium on Communication Systems, Networks and Digital Signal Processing, CSNDSP 2018, Budapest, Hungary, 18 - 20 July 2018
- IX. **Performance of Subcarrier Intensity Modulation Over Imprecise Gamma-Gamma Fading Links**
İBRAHİM A., REMLEIN P., GÜÇLÜOĞLU T.
Baltic URSI Symposium, 14 - 17 May 2018
- X. **Performance of Subcarrier Intensity Modulation over an Imprecise Gamma-Gamma Channel**
İbrahim A., ERDOĞAN E., GÜÇLÜOĞLU T.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XI. **Error Probability Performance of Channel Estimation Error on Cognitive Multi Relay Networks**
ERDOĞAN E., BİROL A., GÜÇLÜOĞLU T.
SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS CONFERENCE (SIU), Antalya, Turkey, 15 - 18 May 2017
- XII. **Performance Analysis of a Cooperative Communication System Using Massive MIMO**
Amar S. E., GÜÇLÜOĞLU T.
2nd World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 12 - 14 May 2017
- XIII. **A WiFi Based Restaurant Order Automation**
Atam K. İ., GÜÇLÜOĞLU T.
2nd World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 12 - 14 May 2017
- XIV. **Antenna Selection in Cognitive AF systems in the presence of Mutual Primary-Secondary Interference, Limited Feedback and Imperfect Channel Estimations**
ERDOĞAN E., Birol A., KABAĞLU N., GÜÇLÜOĞLU T.
5th IEEE International Black Sea Conference on Communications and Networking (IEEE BlackSeaCom), İstanbul, Turkey, 5 - 08 June 2017, pp.82-86
- XV. **Implementing Different Parameters Values affected in Single Cell Multi User Massive MIMO to**

Estimate Maximum Spectral Efficiency

Alkhalili O. N. M., GÜÇLÜOĞLU T.

International Conference on "Engineering and Technology, Computer, Basic and Applied Sciences"- ECBA-2016, İstanbul, Turkey, 2 - 03 September 2016

- XVI. **Investigation of the Impact of System Parameters on Energy Efficiency of Massive MIMO Systems**
Obaidi M., GÜÇLÜOĞLU T.
International Conference on "Engineering and Technology, Computer, Basic and Applied Sciences- ECBA-2016, İstanbul, Turkey, 2 - 03 September 2016
- XVII. **Performance of GFDM-Maximal Ratio Transmission over Nakagami-m Fading Channels**
YENİLMEZ A., GÜÇLÜOĞLU T., REMLEIN P.
13th International Symposium on Wireless Communication Systems (ISWCS), Poznan, Poland, 20 - 23 September 2016, pp.523-527
- XVIII. **İşbirlikli DFBÇ Tabanlı En-iyi Oranlı İletim**
Bırol A., GÜÇLÜOĞLU T.
Yıldız Teknik Üniversitesi, Malatya, Turkey, 16 May 2015, pp.1-5
- XIX. **Bina İçi Telsiz Kanallar için Kanal Ölçümü Gerçekleştirilmesi**
Gherekhloo S., GÜÇLÜOĞLU T.
IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, 01 May 2015
- XX. **Çöz ve İlet Tabanlı İki Yönlü Röleli Sistemlerde Maksimum-Oranlı Verici-Alıcı**
Erdoğan E., GÜÇLÜOĞLU T.
IEEE 23. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, 01 May 2015
- XXI. **Channel Sounding Realizations for Indoor Wireless Communication**
Tasdemir E., Gherekhloo S., GÜÇLÜOĞLU T.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.706
- XXII. **Cooperative OFDM based Maximum-Ratio Transmission**
Gucer O., Bırol A., GÜÇLÜOĞLU T.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1296-1300
- XXIII. **Detect and Forward Based Two-Way Relay Systems with Maximum-Ratio Transceivers**
ŞAHİN Y., Erdogan E., GÜÇLÜOĞLU T.
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1937
- XXIV. **Zaman ve Frekans Alanında Işın Demetlemesiyle Sualtında Hedef Kerteriz Tespiti**
Karakaya Y., GÜÇLÜOĞLU T., Şahin Y.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Trabzon, Turkey, 23 - 25 April 2014
- XXV. **İşbirlikli Maksimum Oranlı İletimin Kesinti Olasılığı**
Muşta M. S., GÜÇLÜOĞLU T.
IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, 01 April 2014
- XXVI. **Underwater Target Bearing Detection By Time And Frequency Domain Beamforming**
Karakaya Y., GÜÇLÜOĞLU T.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1150-1153
- XXVII. **Outage Probability of a Cooperative Maximum Ratio Transmission**
Erdogan E., Musta M. S., GÜÇLÜOĞLU T.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.774-777
- XXVIII. **Detection of Trojans in Integrated Circuits**
Özmen A., GÜÇLÜOĞLU T., Alsan H. F., Macit M. C.
International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), 01 July 2012
- XXIX. **OFDM with Transmit and Receive Antenna Selection Based on Subcarrier Groups**

Remlein P., Cogalan T., GÜÇLÜOĞLU T.

8th International Symposium on Communication Systems, Networks & Digital Signal Processing (CSNDSP), Poznan, Poland, 18 - 20 July 2012

- XXX. **Space Time Turbo Coded OFDM System with Transmit and Receive Antenna Selection**
Remlein P., GÜÇLÜOĞLU T.
7th International Conference on Electrical and Electronics Engineering (ELECO), 01 December 2011
- XXXI. **Performance Comparison of Coded OFDM Systems with Antenna Selection Techniques**
Cogalan T., Kucuk A., GÜÇLÜOĞLU T.
MOSHARAKA INTERNATIONAL CONFERENCE ON COMMUNICATIONS, COMPUTERS AND APPLICATIONS (MIC-CCA 2011), 01 July 2011
- XXXII. **Space Time Coded OFDM with Joint Antenna Selection**
GÜÇLÜOĞLU T., Çelebi M. E.
Future Network and Mobile Summit (FUNEMS), 01 June 2010
- XXXIII. **Uzay Zaman Kodlanmış İşbirlikli İletişimde Birleşik Rôle ve Anten Seçimi**
Eylem E., GÜÇLÜOĞLU T.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Diyarbakır, Turkey, 22 - 24 April 2010
- XXXIV. **WiMAX gibi OFDM Tabanlı Sistemler için Birleşik Anten Seçimi**
Çınar S., GÜÇLÜOĞLU T., ÇELEBİ M. E.
III. HABERLEŞME TEKNOLOJİLERİ VE UYGULAMALARI SEMPOZYUMU (HABTEKUS'09), İstanbul, Turkey, 9 - 11 December 2009
- XXXV. **İşbirlikli İletişim için Birleşik En İyi Anten ve Rôle Seçimi**
Erdoğan E., GÜÇLÜOĞLU T.
III. HABERLEŞME TEKNOLOJİLERİ VE UYGULAMALARI SEMPOZYUMU (HABTEKUS'09), İstanbul, Turkey, 9 - 11 December 2009
- XXXVI. **Uzay Zaman Kodlanmış Çoklu Anten Sistemleri için Basit bir Döngülü Denkleştirici**
GÜÇLÜOĞLU T.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, 01 April 2009
- XXXVII. **A Simple Iterative Equalizer for Space Time Coded Multiple Antenna Systems**
GÜÇLÜOĞLU T.
IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.455-458
- XXXVIII. **Performance of Transmit Antenna Selection over Frequency Selective Fading Channels in the Presence of Channel Estimation Errors**
GÜÇLÜOĞLU T., Panayirci E.
European Signal Processing Conference (EUSIPCO), 01 August 2008
- XXXIX. **Frekans Bağı Sönümlenmeli Kanallarda Yığıt Denkleştiricinin Başarımı**
GÜÇLÜOĞLU T.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, 01 April 2008
- XL. **Performance of Stack Equalizer over Frequency Selective Fading Channels**
Gueclueoglu T.
IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.152-155
- XLI. **Anten Seçimli Uzay-Zaman Kodlanmış Sistemlerdeki Kanal Kestirim Hatasının Başarım Üzerindeki Etkisi**
GÜÇLÜOĞLU T., Panayirci E.
Sinyal İşleme ve İletişim Uygulamaları Kurultayı, 01 June 2007
- XLII. **Space time coded systems with transmit antenna selection**
GÜÇLÜOĞLU T., DUMAN T. M.
41st Annual Conference on Information Sciences and Systems, CISS, 14 - 16 March 2007, pp.863-868
- XLIII. **Space-time coded systems with joint transmit and receive antenna selection**
GÜÇLÜOĞLU T., Duman T. M.

IEEE International Conference on Communications (ICC 2007), Glasgow, United Kingdom, 24 - 28 June 2007, pp.5305-5306

- XLIV. **Effect of channel estimation errors on the performance of space time coded systems with antenna selection**
Gueclueoglu T., Panayirci E.
IEEE 15th Signal Processing and Communications Applications Conference, Eskişehir, Turkey, 11 - 13 June 2007, pp.754-757
- XLV. **Performance of space-time coded systems with transmit antenna selection**
GÜÇLÜOĞLU T., Duman T. M.
41st Annual Conference on Information Sciences and Systems (CISS 2007), Maryland, United States Of America, 14 - 16 March 2007, pp.863-864
- XLVI. **Soft input soft output stack equalization for MIMO frequency selective fading channels**
GÜÇLÜOĞLU T., Duman T.
IEEE International Conference on Communications (ICC 2005), Seoul, South Korea, 16 - 20 May 2005, pp.510-514
- XLVII. **Antenna selection for space time coding over frequency-selective fading channels**
GÜÇLÜOĞLU T., Duman T., Ghayeb A.
IEEE International Conference on Acoustics, Speech, and Signal Processing, Montreal, Canada, 17 - 21 May 2004, pp.709-712

Other Publications

1. **Reduced complexity algorithms for space-time coded systems over frequency selective fading channels**
GÜÇLÜOĞLU T.
Other, 2006

Supported Projects

Güçlüoğlu T., Aslan K., Project Supported by Higher Education Institutions, NOMA Based Optical Communication, 2023 - 2025

Güçlüoğlu T., Akçay Y., TUBITAK Project, Application of GFDM in Cooperative Communication, 2022 - 2023

Güçlüoğlu T., Uzay T., TUBITAK Project, Telemetri ve Telekomut Haberleşmesi, 2014 - 2019

İlhan H., Güçlüoğlu T., Özdemir Ö., TUBITAK Project, Complexity reduction methods and error performance analysis for cooperative/relay systems, 2013 - 2016

GÜÇLÜOĞLU T., EU Supported Other Project, WIMAGIC-Worldwide Interoperability Microwave Broadband Access System for Next Generation Wireless Communications, 2008 - 2010

GÜÇLÜOĞLU T., EU Supported Other Project, Network of Excellence in Wireless COMMunications++ (NEWCOM++), 2008 - 2010

GÜÇLÜOĞLU T., Other International Funding Programs, GELECEK NESİL TELSİZ İLETİSİM SİSTEMLERİ İÇİN DÜŞÜK-KARMAŞIKLIKLI ALICI-VERİCİLERİN GELİSTİRİLMESİ VE ANALİZİ, 2007 - 2009

GÜÇLÜOĞLU T., Other International Funding Programs, Frekans Seçici Kanallar İçin Düşük Karmaşıklıkli Alıcı Yapıları Geliştirilmesi, 2001 - 2004

Activities in Scientific Journals

PHYSICAL COMMUNICATION, Assistant Editor/Section Editor, 2018 - 2021

Scientific Refereeing

OPTICS COMMUNICATIONS, National Scientific Refreed Journal, May 2020
PHYSICAL COMMUNICATION, Journal Indexed in SCI-E, August 2019
PHYSICAL COMMUNICATION, Journal Indexed in SCI-E, June 2019
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, January 2018
IEEE Transactions on Vehicular Communications, SCI Journal, November 2017
IEEE Transactions on Vehicular Communications, SCI Journal, November 2017
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, August 2015
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, June 2015
JOURNAL OF COMMUNICATIONS AND NETWORKS, Journal Indexed in SCI-E, April 2014
JOURNAL OF COMMUNICATIONS AND NETWORKS, National Scientific Refreed Journal, February 2014
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, SCI Journal, November 2011
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, SCI Journal, June 2011
IEEE TRANSACTIONS ON COMMUNICATIONS, SCI Journal, May 2011
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, May 2010
IEEE Communications Letters, SCI Journal, April 2009
IEEE Transactions on Wireless Communications, SCI Journal, February 2009
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, SCI Journal, November 2008
IEEE COMMUNICATIONS MAGAZINE, SCI Journal, June 2008
Research Letters in Communications, Other Indexed Journal, May 2008
IEEE COMMUNICATIONS LETTERS, National Scientific Refreed Journal, March 2008
IEEE SIGNAL PROCESSING LETTERS, Journal Indexed in SCI-E, July 2005

Metrics

Publication: 71
Citation (WoS): 133
Citation (Scopus): 181
H-Index (WoS): 6
H-Index (Scopus): 6

Congress and Symposium Activities

IEEE ILTEK, Moderator, İstanbul, Turkey, 2013

Scholarships

Teaching Associate, University, 2004 - 2006
Research Associate, Official Institutions of Foreign Countries, 2001 - 2004
Graduate Assistantship, University, 2000 - 2001

Awards

Ahmed M. S., Remlein P., Güçlüoğlu T., BEST PAPER AWARD, Irc 2020 Xiv. International Research Conference , November 2020
GÜÇLÜOĞLU T., Bülent Kerim Altay Ödülü, Orta Doğu Teknik Üniversitesi, June 1994

Non Academic Experience

CTECH

Poligon TR

Business Organization (private), Arizona State University, Faculty of Engineering

Business Organization (private), Arizona State University, Faculty of Engineering

Business Organization (private), PPC Broadband Inc., R&D Department

Company, PPC-Broadband / Belden, Coaxial Cable Communication

Business Establishment Private, KAREL, Sayısal Santral ArGe Bölümü

Other Public Institution, Tübitak , VLSI Analog Sayısal Devre Tasarımı

Business Establishment Private, TÜRKSAT Yer Kontrol İstasyonu, Uydu Haberleşme ve Kontrol