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Eğitim Bilgileri

Doktora, The Queen''s University of Belfast, Electronics, Electrical Engineering and Computer Science, Birleşik Krallık
2001 - 2004

Yüksek Lisans, University of Bristol, Electrical And Electronic Engineering, Birleşik Krallık 2000 - 2001

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1995 -
2000

Yaptığı Tezler

Doktora, Analysis of Coincident Microphone Array Recordings For Auralization Applications, The Queen''s University of
Belfast, 2004

Yüksek Lisans, Implementation of OFDM for HIPERLAN/2 and performance comparison of sub-carrier modulation
formats, University of Bristol, 2001

Araştırma Alanları

Sinyal İşleme, Algılayıcı Dizileri İçin Sinyal İşleme, Çok-kipli Sinyal İşleme, Çokluortam, Konuşma Analizi ve İşleme
Teknikleri, Benzetim ve Modelleme, Paralel Algoritmalar, Bilgi Güvenliği ve Güvenilirliği, Yapay Zeka, Bilgisayarda
Öğrenme ve Örüntü Tanıma, Yazılım Mühendisliği

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2022 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2014 - 2022

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2010 - 2014

Araştırmacı, University of Surrey, Engineering And Physical Science, Electrical And Electronic Engineering, 2004 - 2010

Akademik İdari Deneyim

Enstitü Müdürü, Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2022 - Devam Ediyor

Enstitü Müdür Yardımcısı, Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2016 - 2022

Yönetilen Tezler

Günel Kılıç B., A robust machine learning based ids design against adversarial attacks in sdn, Doktora, A.SARIKAYA(Öğrenci), 2024

Günel Kılıç B., Using topological features of microservice call graphs to predict the response time variation, Yüksek Lisans, B.FINDIK(Öğrenci), 2024

Günel Kılıç B., Examination of institutional investor network patterns in context of major crashes in us stock markets, Yüksek Lisans, E.DEMİREL(Öğrenci), 2024

Günel Kılıç B., Wavelet-based adaptive array signal processing for gunshot detection and DOA estimation on unmanned air vehicles, Doktora, M.YILMAZ(Öğrenci), 2023

Günel Kılıç B., Investigating the impact of selective directional auditory attention on eye movements, pupil responses, and auditory perception in the presence of competing speech, Doktora, S.YAĞMUR(Öğrenci), 2023

Günel Kılıç B., Assessment for identifying skills gaps in high performance computing related higher education programs by using NLP, Yüksek Lisans, G.KARGIN(Öğrenci), 2023

GÜNEL KILIÇ B., Augmenting a Turkish dataset for spam filtering using natural language processing techniques, Yüksek Lisans, A.AKSOY(Öğrenci), 2022

GÜNEL KILIÇ B., Keystroke transcription from acoustic emanations using continuous wavelet transform, Yüksek Lisans, A.ÖZKAN(Öğrenci), 2022

GÜNEL KILIÇ B., BOZŞAHİN H. C., Human presence detection in emergency situations using deep learning based audio-visual systems, Yüksek Lisans, İ.GENEÇİ(Öğrenci), 2022

GÜNEL KILIÇ B., PERFORMANCE EVALUATION OF REAL-TIME NOISY SPEECH RECOGNITION FOR MOBILE DEVICES, Yüksek Lisans, Y.YURTCAN(Öğrenci), 2019

GÜNEL KILIÇ B., Nesnelerin interneti tasarımları ve ürünleri için bt güvenliği ve gizliliği rehberlik aracı., Yüksek Lisans, M.Erhan(Öğrenci), 2019

GÜNEL KILIÇ B., Zararlı sitelerinin tespiti ve karakterizasyonu için sosyal ağ analizi., Yüksek Lisans, M.Aldemir(Öğrenci), 2019

GÜNEL KILIÇ B., Geliştirilmiş kuruluş güvenliği için güvenlik görselleştirme altyapı, teknik ve metodolojileri., Doktora, F.Ferd(Öğrenci), 2019

GÜNEL KILIÇ B., ANOMALY-BASED CYBER INTRUSION DETECTION SYSTEM WITH ENSEMBLE CLASSIFIER, Yüksek Lisans, A.SARIKAYA(Öğrenci), 2018

GÜNEL KILIÇ B., COŞAR A., APPLICATION OF PARTICLE SWARM OPTIMIZATION ALGORITHM IN ALLOCATING CLOUD RESOURCES FOR VIDEO ON DEMAND, Doktora, B.AYGÜN(Öğrenci), 2018

GÜNEL KILIÇ B., Guidelines and principles for efficient interaction on large touchscreens with collaborative usage, Doktora, T.SERCAN(Öğrenci), 2017

YILDIRIM İ. S., GÜNEL KILIÇ B., Kurumsal öğrenme bağlamında çevrim içi öğrenmenin incelenmesi: sosyal ağ analizi ile online bilgi paylaşımı ve işbirliğini inceleyen bir gömülü tasarım karma yöntem çalışması., Doktora, D.Tufan(Öğrenci), 2016

GÜNEL KILIÇ B., A comprehensive simulation of factors that affect performance of array based acoustic gunshot localization on helicopters, Yüksek Lisans, M.YILMAZ(Öğrenci), 2016

GÜNEL KILIÇ B., An information security framework for web services in enterprise networks, Yüksek Lisans, B.GÖKHAN(Öğrenci), 2015

GÜNEL KILIÇ B., Influence of networks on systemic risk within banking system of Turkey, Yüksek Lisans, Ö.ÖZDEMİR(Öğrenci), 2015

Tasarladığı Dersler

- Günel Kiliç B., Secure Software Development, Yüksek Lisans, 2016 - 2017
Günel Kiliç B., Security Engineering, Yüksek Lisans, 2013 - 2014
Günel Kiliç B., Social Network Analysis, Yüksek Lisans, 2011 - 2012
Günel Kiliç B., Applications of Audio Information Systems, Yüksek Lisans, 2010 - 2011

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **RAIDS: Robust autoencoder-based intrusion detection system model against adversarial attacks**
Sarıkaya A., GÜNEL KILIÇ B., DEMİRCİ M.
Computers and Security, cilt.135, 2023 (SCI-Expanded)
- II. **GRU-GBM: A combined intrusion detection model using LightGBM and gated recurrent unit**
Sarıkaya A., GÜNEL KILIÇ B., DEMİRCİ M.
EXPERT SYSTEMS, cilt.39, sa.9, 2022 (SCI-Expanded)
- III. **A Decision Support System for Optimal Selection of Enterprise Information Security Preventative Actions**
Sonmez F. O., Günel Kiliç B.
IEEE TRANSACTIONS ON NETWORK AND SERVICE MANAGEMENT, cilt.18, sa.3, ss.3260-3279, 2021 (SCI-Expanded)
- IV. **Application of binary PSO for public cloud resources allocation system of video on demand (VoD) services**
Aygun B., GÜNEL KILIÇ B., ARICI N., COŞAR A., Tuncsiper B.
Applied Soft Computing, cilt.99, 2021 (SCI-Expanded)
- V. **Reusable Security Requirements Repository Implementation Based on Application/System Components**
Sonmez F. O., GÜNEL KILIÇ B.
IEEE ACCESS, cilt.9, ss.165966-165988, 2021 (SCI-Expanded)
- VI. **Holistic Web Application Security Visualization for Multi-Project and Multi-Phase Dynamic Application Security Test Results**
Sonmez F. O., GÜNEL KILIÇ B.
IEEE ACCESS, cilt.9, ss.25858-25884, 2021 (SCI-Expanded)
- VII. **Evaluation of hearing loss simulation using a speech intelligibility index**
ARIÖZ U., GÜNEL KILIÇ B.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.24, sa.5, ss.4193-4207, 2016 (SCI-Expanded)
- VIII. **Optimization of Frequency Lowering Algorithms for Getting the Highest Speech Intelligibility Improvement by Hearing Loss Simulation**
ARIÖZ U., GÜNEL KILIÇ B.
JOURNAL OF MEDICAL SYSTEMS, cilt.39, sa.6, 2015 (SCI-Expanded)
- IX. **On the statistical distributions of active intensity directions**
GÜNEL B.
JOURNAL OF SOUND AND VIBRATION, cilt.332, sa.20, ss.5207-5216, 2013 (SCI-Expanded)
- X. **Multichannel Audio Coding Based on Analysis by Synthesis**
Elfitri I., GÜNEL B., AHMET K.
PROCEEDINGS OF THE IEEE, cilt.99, sa.4, ss.657-670, 2011 (SCI-Expanded)
- XI. **Simulation of Directional Microphones in Digital Waveguide Mesh-Based Models of Room Acoustics**
HACIHABİBOĞLU H., GÜNEL B., CVETKOVIC Z.
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING, cilt.18, sa.2, ss.213-223, 2010 (SCI-Expanded)

- XII. **Time-domain simulation of directive sources in 3-D digital waveguide mesh-based acoustical models**
HACIHABİBOĞLU H., Gunel B., kondoz a.
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING, cilt.16, sa.5, ss.934-946, 2008 (SCI-Expanded)
- XIII. **Acoustic source separation of convolutive mixtures based on intensity vector statistics**
GÜNEL B., HACIHABİBOĞLU H., Kondoza.
IEEE TRANSACTIONS ON AUDIO SPEECH AND LANGUAGE PROCESSING, cilt.16, sa.4, ss.748-756, 2008 (SCI-Expanded)
- XIV. **On the accuracy of first-order numerical derivatives in multidimensional digital waveguide mesh topologies**
HACIHABİBOĞLU H., Gunel B., kondoz a.
IEEE SIGNAL PROCESSING LETTERS, cilt.15, ss.9-12, 2008 (SCI-Expanded)
- XV. **Analysis of root displacement interpolation method for tunable allpass fractional-delay filters**
HACIHABİBOĞLU H., Guenel B., kondoz a.
IEEE TRANSACTIONS ON SIGNAL PROCESSING, cilt.55, sa.10, ss.4896-4906, 2007 (SCI-Expanded)
- XVI. **Wavelet packet based analysis of sound fields in rooms using coincident microphone arrays**
Gunel B., HACIHABİBOĞLU H., kondoz a.
APPLIED ACOUSTICS, cilt.68, sa.7, ss.778-796, 2007 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **A Class-Specific Intrusion Detection Model: Hierarchical Multi-class IDS Model**
Sarıkaya A., Günel Kiliç B.
SN Computer Science, cilt.1, sa.202, ss.1-11, 2020 (Hakemli Dergi)
- II. **Usability Comparison of Large Touchscreen Systems versus Desktop-Size and Mobile-Size Screen Systems**
Pekin T. S., İşler V., Günel Kiliç B.
Journal of Naval Sciences and Engineering, cilt.11, sa.3, ss.14-26, 2016 (Hakemli Dergi)
- III. **Modified Rhyme Test for Evaluating Turkish Speech Intelligibility**
ARIÖZ U., GÜNEL KILIÇ B.
GAZI MEDICAL JOURNAL, cilt.26, sa.3, ss.75-81, 2015 (ESCI)
- IV. **Blind source separation and directional audio synthesis for binaural auralization of multiple sound sources using microphone array recordings**
GÜNEL B., HACIHABİBOĞLU H., Kondoza.
Proceedings of Meetings on Acoustics, cilt.4, 2008 (Hakemsiz Dergi)
- V. **Comparison of Subjective and Objective Evaluation Methods for Audio Source Separation**
Josef K., GÜNEL B., Ahmet K.
Proceedings of Meetings on Acoustics, cilt.4, 2008 (Hakemsiz Dergi)

Kitap & Kitap Bölümleri

- I. **Evaluation of Acoustic Gunshot Localization Methods on Helicopters with Environmental Sound Simulations**
Yılmaz M., Günel Kiliç B.
Cybernetics Perspectives in Systems, Radek Silhavy, Editör, Springer, London/Berlin , London, ss.366-385, 2022
- II. **The Use of Big Mobile Data to Gain Multilayered Insights for Syrian Refugee Crisis**
Kılıç Ö. O., Akyol M. A., Işık O., Günel Kılıç B., Aydınöğlü A. U., Sürer E., Düzgün H. Ş., Kalaycıoğlu H. S., Taşkaya Temizel T.
Guide to Mobile Data Analytics in Refugee Scenarios , Salah A., Pentland A., Lepri B., Letouzé E., Editör, Springer,

London/Berlin , Zürich, ss.347-379, 2019

III. Big Data Technologies–Supported Generic Visualization System in an Enterprise Cyber-Physical Environment

Özdemir Sönmez F. F., Günel Kılıç B.

Cybersecurity and Privacy in Cyber Physical Systems, Y. Maleh,M. Shojafar,A. Haqiq,A. Darwish, Editör, CRC, New York , New-York, ss.251-292, 2019

IV. Security Visualization Extended Review Issues, Classifications, Validation Methods, Trends, Extensions

Özdemir Sönmez F. F., Günel Kılıç B.

Security and Privacy Management, Techniques, and Protocols, Maleh,Yassine, Editör, Idea Group Publishing (IGP) , New-York, ss.152-197, 2018

V. Sound source localization: Conventional methods and intensity vector direction exploitation

Günel Kılıç B., Hacıhabiboğlu H.

Machine Audition Principles Algorithms and Systems, Wenwu Weng, Editör, Idea Group Publishing (IGP) , New-York, ss.126-161, 2011

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Qualitative and Quantitative Results of Enterprise Security Visualization Requirements Analysis Through Surveying

Özdemir Sönmez F. F., GÜNEL KILIÇ B.

10th International Conference on Information Visualization Theory and Applications (IVAPP), Prague, Çek Cumhuriyeti, 25 - 27 Şubat 2019

II. Data Analytics without Borders: Multi-Layered Insights for Syrian Refugee Crisis

KILIÇ Ö. O., AKYOL M. A., ışık o., GÜNEL KILIÇ B., AYDINOĞLU A. U., SÜRER E., Düzgün Ş., kalaycıoğlu s., TAŞKAYA TEMİZEL T.

Data for Refugees Challenge Workshop, İstanbul, Türkiye, 21 Ocak 2019, ss.19-46

III. Evaluation of Security Information and Event Management Systems for Custom Security Visualization Generation

Sonmez F. O., GÜNEL KILIÇ B.

International Congress on Big Data, Deep Learning and Fighting Cyber Terrorism (IBIGDELFT), Ankara, Türkiye, 3 - 04 Aralık 2018, ss.38-44

IV. Speech recognition on mobile devices in noisy environments

Yurtcan Y., Günel Kılıç B.

26th Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018

V. Investigation of Acoustic Source Localization algorithm performances for Gunshot Localization on helicopters

Yılmaz M., GÜNEL B.

2016 24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 Mayıs 2016

VI. MAXIMUM-LIKELIHOOD BASED 3D ACOUSTICAL SIGNATURE ESTIMATION

GÜNEL KILIÇ B.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Türkiye, 23 - 25 Nisan 2014, ss.786-789

VII. A social network analysis of learning in corporate training context: Analyzing Sosyal 2.0 as a space for networked learning

Tufan D., Yildirim I. S., Günel Kılıç B.

9th International Conference on Networked Learning, Edinburgh, Birleşik Krallık, 7 - 09 Nisan 2014, ss.1-5

VIII. Linking Software Development Phase and Product Attributes With User Evaluation: A Case Study on Games

Bengür Ö., Günel Kiliç B.

International Conference on Advanced Information Technologies and Applications, Dubai, Birleşik Arap Emirlikleri, 1 - 03 Kasım 2013, ss.397-413

- IX. **AVISION Audio and visual attention models applied to 2D and 3D audio-visual content**
Just N., Laabs M., Unver E., Gunel B., Worrall S., Kondoza A.
2011 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting, BMSB 2011, Nuremberg, Almanya, 8 - 10 Haziran 2011
- X. **Spatial synchronization of audiovisual objects by 3D audio object coding**
Günel B., Ekmekcioglu E., Kondoza A. M.
2010 IEEE International Workshop on Multimedia Signal Processing, MMSP2010, Saint-Lo, Fransa, 4 - 06 Ekim 2010, ss.460-465
- XI. **A scalable multi view audiovisual entertainment framework with content aware distribution**
Ekmekçioglu E., GÜNEL B., Dissanayake M., Worrall S., Kondoza A.
International Conference on Image Processing, 26 - 29 Eylül 2010
- XII. **Performance of Closed Form Acoustic Scene Decomposition for Forensic Analysis**
Günel Kiliç B., Nikopoulos G., Hacıhabiboğlu H., Kondoza A.
AES 39th International Conference: Audio Forensics: Practices and Challenges, Hillerod, Danimarka, 17 - 19 Haziran 2010
- XIII. **Intensity vector direction exploitation for exhaustive blind source separation of convolutive mixtures**
GÜNEL KILIÇ B., HACIHABİBOĞLU H., kondoza a.
2009 IEEE International Conference on Acoustics, Speech and Signal Processing, Taipei, Taiwan, 19 - 24 Nisan 2009
- XIV. **Robustness Comparison of Moving Convolutional Source Separation Techniques**
Kornycky J., Guenel B., Kondoza A.
51st International Symposium ELMAR, Zadar, Hırvatistan, 28 - 30 Eylül 2009, ss.209-212
- XV. **Comparison of subjective and objective evaluation methods for audio source separation**
Kornycky J., Gunel B., Kondoza A.
7th European Conference on Noise Control 2008, EURONOISE 2008, Paris, Fransa, 29 Haziran - 04 Temmuz 2008, ss.3937-3942
- XVI. **Blind source separation and directional audio synthesis for binaural auralization of multiple sound sources using microphone array recordings**
GÜNEL KILIÇ B., HACIHABİBOĞLU H., kondoza a.
ASA-EAA 2nd Joint Conference, 29 Haziran - 04 Temmuz 2008
- XVII. **Source directivity simulation in digital waveguide mesh based room acoustics models**
Hacıhabiboğlu H., Günel Kiliç B., Kondoza A.
AES 30th International Conference on Intelligent Audio Environments, Rovaniemi, Finlandiya, 15 - 17 Mart 2007
- XVIII. **Plane wave decomposition with regularization using a single rotating microphone**
Günel Kiliç B., Hacıhabiboğlu H., Kondoza A.
AES 30th International Conference on Intelligent Audio Environments, Rovaniemi, Finlandiya, 15 - 17 Mart 2007
- XIX. **Interpolated Allpass Fractional Delay Filters Using Root Displacement**
HACIHABİBOĞLU H., GÜNEL KILIÇ B., kondoza a.
2006 IEEE International Conference on Acoustics Speed and Signal Processing Proceedings, Toulouse, France, 14 - 19 Mayıs 2006
- XX. **Sound field analysis using a compact pressure gradient array**
GÜNEL KILIÇ B., HACIHABİBOĞLU H., kondoza a.
IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, 2005., New Paltz, NY, USA, 16 - 19 Ekim 2005
- XXI. **Head related transfer function filter interpolation by root displacement**
HACIHABİBOĞLU H., GÜNEL KILIÇ B., kondoza a.
IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, 2005., New Paltz, NY, USA, 16 - 19

Ekim 2005

XXII. Loudspeaker localization using B-format recordings

Günel B.

IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, New-York, Amerika Birleşik Devletleri, 19 - 23 Ekim 2003, ss.59-62

XXIII. Room shape and size estimation using directional impulse response measurements

GÜNEL KILIÇ B.

Forum Acousticum, Sevilla, İspanya, 16 - 20 Eylül 2002

XXIV. Wavelet based spectral smoothing for head-related transfer function filter design

Hacihabiboglu H., Günel B., Murtagh F.

22nd International Congress of the Audio-Engineering-Society, Espoo, Finlandiya, 15 - 17 Haziran 2002, ss.131-136

Desteklenen Projeler

Toffoli H., Günel Kiliç B., Akagündüz E., Akbaş E., Dülger Ö., Karaca M., Karagöz P., Manguoğlu M., Nazirzadeh S., Sezer Uzol N., et al, AB Destekli Diğer Projeler, EuroCC2 - National Competence Centers in the Framework of EuroHPC Phase2, 2023 - 2026

Günel Kiliç B., Eren P. E., UFUK 2020 Projesi, EUMaster4HPC - HPC European Consortium Leading Education Activities, 2022 - 2025

Günel Kiliç B., 7. Çerçeve Programı Projesi, IRIS-Towards Natural Interaction and Communication, 2014 - 2017

Günel Kiliç B., 7. Çerçeve Programı Projesi, DIstribution Of Multi-view Entertainment using content aware DELivery Systems (DIOMEDES)), 2010 - 2012

Günel Kiliç B., Ulusal Araştırma Fonu Tarafından Desteklenmiş Proje, Improving speech intelligibility using acoustic source separation with audio frequency, 2010 - 2010

Günel Kiliç B., 7. Çerçeve Programı Projesi, Multimedia Scalable 3D for Europe (MUSCADE), 2010 - 2010

Günel Kiliç B., 6. Çerçeve Programı Projesi, Networked Audiovisual Media Technologies (VISNET II), 2006 - 2009

Patent

GÜNEL KILIÇ B., ACOUSTIC SOURCE SEPARATION, Patent, BÖLÜM H Elektrik, Standart Tescil, 2016

HACIHABİBOĞLU H., GÜNEL KILIÇ B., Acoustic source separation, Patent, BÖLÜM G Fizik, Standart Tescil, 2015

Metrikler

Yayın: 52

Atıf (WoS): 168

Atıf (Scopus): 263

H-İndeks (WoS): 7

H-İndeks (Scopus): 9

Akademi Dışı Deneyim

University of Surrey