

## **Prof.Dr. BUYURMAN BAYKAL**

### **Kişisel Bilgiler**

**E-posta:** buyurman@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/buyurman>

### **Uluslararası Araştırmacı ID'leri**

ScholarID: SPzSqYcAAAAJ

ORCID: 0000-0003-0966-4607

Publons / Web Of Science ResearcherID: ABA-2490-2020

ScopusID: 7003549892

Yoksis Araştırmacı ID: 163694

### **Eğitim Bilgileri**

Doktora, Imperial College of Science, Technology and Medicine, Elektrik-Elektronik Mühendisliği, Birleşik Krallık 1992 - 1995

### **Yabancı Diller**

İngilizce, C1 İleri

### **Yaptığı Tezler**

Doktora, Underdetermined Recursive Least-Squares Adaptive Filtering, Imperial College Of Science, Technology And Medicine, Elektrik-Elektronik Mühendisliği, 1995

### **Araştırma Alanları**

Bilgi Sistemleri, Haberleşme ve Kontrol Mühendisliği, Bilgisayar Bilimleri, Elektrik-Elektronik Mühendisliği

### **Akademik Unvanlar / Görevler**

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2004 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1999 - 2003

Yrd.Doç.Dr., Başkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1997 - 1999

Araştırma Görevlisi, Imperial College of Science, Technology and Medicine, Elektrik Ve Elektronik Mühendisliği, 1993 - 1997

### **Yönetilen Tezler**

BAYKAL B., İnsansız sistemler için bir silah sistemi iletişim mimarisi geliştirilmesi., Yüksek Lisans, F.Cem(Öğrenci), 2019

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- BAYKAL B., Development of the holistic work system framework (HWSF) with the aid of information systems research design science guideline, Doktora, E.ÖZALP(Öğrenci), 2014
- BAYKAL B., Tracking of multiple ground targets in clutter with interacting multiple model estimator, Yüksek Lisans, Y.KORKMAZ(Öğrenci), 2013
- BAYKAL B., Target localization methods for frequency-only MIMO radar, Doktora, Y.KALKAN(Öğrenci), 2012
- BAYKAL B., Yer hedeflerinin etkileşimli çoklu modelleme ile takibi, Yüksek Lisans, D.ACAR(Öğrenci), 2011
- SARANLI A., BAYKAL B., Tracker-aware detection: A theoretical and an experimental study, Doktora, M.ŞAMIL(Öğrenci), 2009
- BAYKAL B., İçerik tabanlı sorgu ve tarama için yapısal ve anlamsal ses içerik analizi, Doktora, M.SERT(Öğrenci), 2006
- SARANLI A., BAYKAL B., On optimal resource allocation in phased array radar systems, Yüksek Lisans, A.IRCI(Öğrenci), 2006
- BAYKAL B., The feasibility, reliable communication and networking aspects of passive wireless sensor networks, Yüksek Lisans, M.YAĞLI(Öğrenci), 2006
- YILMAZ A. Ö., BAYKAL B., Sub-graph approach in iterative sum-product algorithm, Yüksek Lisans, M.FATİH(Öğrenci), 2005
- BAYKAL B., GWSSUS sönümlü CDMA kanallarının genelleştirilmiş istatistik-yaymalı performans analizi, Doktora, Ö.Ertuğ(Öğrenci), 2005
- GENÇER N. G., BAYKAL B., Extraction of auditory evoked potentials from ongoing EEG, Doktora, S.AYDIN(Öğrenci), 2005
- BAYKAL B., Iteratif topla-çarp algoritmasında alt ağ yaklaşımı, Yüksek Lisans, M.Fatih(Öğrenci), 2005
- BAYKAL B., Generalized random spreading performance analysis of CDMA coma over GWSSUS fading channels, Doktora, Ö.ERTUĞ(Öğrenci), 2005
- BAYKAL B., Interception techniques for direct sequence spread spectrum signals, Yüksek Lisans, U.KARADENİZ(Öğrenci), 2005
- BAYKAL B., Block transmissions on orthogonal carriers, Yüksek Lisans, A.YAZICI(Öğrenci), 2005
- BAYKAL B., 2D correlated diffusion process for mobility modeling in mobile networks, Yüksek Lisans, T.ÇAKIR(Öğrenci), 2004
- BAYKAL B., Stanag 428 hf modem yazılıminın tms320c54x sayısal işaret işlemci üzerinde gerçekleştirilmesi, Yüksek Lisans, E.ÖRÜMLÜ(Öğrenci), 2004
- BAYKAL B., Implementation of stanag 4285 HF modem software on TMS320C54X digital signal processor, Yüksek Lisans, E.ÖRÜMLÜ(Öğrenci), 2004
- BAYKAL B., Performance comparison of adaptive decision feedback equalizer and blind decision feedback equalizer, Yüksek Lisans, S.ŞENOL(Öğrenci), 2004
- BAYKAL B., A simulation study of scheduling algorithms for packet switching networks, Yüksek Lisans, Ö.BABUR(Öğrenci), 2003
- BAYKAL B., Handover algorithms for mobile IPv6, Yüksek Lisans, V.ÇAĞRI(Öğrenci), 2003
- BAYKAL B., A novel architecture proposal for multi-access management in IP-based future wireless networks, Yüksek Lisans, S.ALITUŃDAŞ(Öğrenci), 2003
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- BAYKAL B., Real time video over IP transmission, Yüksek Lisans, O.ÇINAR(Öğrenci), 2003

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- BAYKAL B., Buffer and error management techniques in voice over IP, Yüksek Lisans, S.CEYLAN(Öğrenci), 2002
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- BAYKAL B., Mobility management in wireless networks: Handover issue, Yüksek Lisans, Ö.ESER(Öğrenci), 2001
- BAYKAL B., 1200 bit/ sn hızlı bir düşük bit hızlı konuşma kodlayıcı tasarımı, Doktora, S.ÖZAYDIN(Öğrenci), 2001
- BAYKAL B., Pre-handoff messaging for qos-aware and reduced latency handoffs in cellular networks, Yüksek Lisans, Ö.BARIŞ(Öğrenci), 2001
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- BAYKAL B., Real-time implementation of 2400 BPS melp with TMS320C3X, Yüksek Lisans, İ.ÖZÇELİK(Öğrenci), 1999
- BAYKAL B., Mobile agent based wireless ATM network management protocol, Yüksek Lisans, K.ÖZBAŞ(Öğrenci), 1999

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **Detection and Localization of Drones in MIMO CW Radar**  
Yazici A., BAYKAL B.  
IEEE Transactions on Aerospace and Electronic Systems, cilt.60, sa.1, ss.226-238, 2024 (SCI-Expanded)
- II. **IPBM: an energy efficient reliable interference-aware periodic broadcast messaging protocol for MANETs**  
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WIRELESS NETWORKS, cilt.25, sa.5, ss.2769-2787, 2019 (SCI-Expanded)
- III. **DIVVY: An Efficient Shared Cell Scheduling Method and Algorithm for 6TiSCH-Based IoT Networks**  
ÜNLÜ B., ÖZCEYLAN B., BAYKAL B.  
IEEE Transactions on Green Communications and Networking, cilt.3, sa.1, ss.170-179, 2019 (SCI-Expanded)
- IV. **Multiple target localization & data association for frequency-only widely separated MIMO radar**  
Kalkan Y., BAYKAL B.  
DIGITAL SIGNAL PROCESSING, cilt.25, ss.51-61, 2014 (SCI-Expanded)
- V. **Frequency-based target localization methods for widely separated MIMO radar**  
Kalkan Y., BAYKAL B.  
RADIO SCIENCE, cilt.49, sa.1, ss.53-67, 2014 (SCI-Expanded)
- VI. **Study on Q-RAM and Feasible Directions Based Methods for Resource Management in Phased Array Radar Systems**  
Irci A., SARANLI A., BAYKAL B.  
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, cilt.46, sa.4, ss.1848-1864, 2010 (SCI-Expanded)
- VII. **Tracker-aware adaptive detection: An efficient closed-form solution for the Neyman-Pearson case**  
Aslan M. S., SARANLI A., BAYKAL B.  
DIGITAL SIGNAL PROCESSING, cilt.20, sa.5, ss.1468-1481, 2010 (SCI-Expanded)
- VIII. **Wireless Passive Sensor Networks**  
Akan O. B., Isik M. T., BAYKAL B.  
IEEE COMMUNICATIONS MAGAZINE, cilt.47, sa.8, ss.92-99, 2009 (SCI-Expanded)
- IX. **Structural and semantic modeling of audio for content-based querying and browsing**  
Sert M., Baykal B., Yazici A.  
FLEXIBLE QUERY ANSWERING SYSTEMS, PROCEEDINGS, cilt.4027, ss.319-330, 2006 (SCI-Expanded)
- X. **Real-time coordination and routing in wireless sensor and actor networks**  
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NEXT GENERATION TELETRAFFIC AND WIRED/ WIRELESS ADVANCED NETWORKING, PROCEEDINGS, cilt.4003, ss.365-383, 2006 (SCI-Expanded)
- XI. **Handoff performance improvement with latency reduction in next generation wireless networks**  
Akan O., Baykal B.  
WIRELESS NETWORKS, cilt.11, sa.3, ss.319-332, 2005 (SCI-Expanded)

- XII. **Mobile multi-access IP: a proposal for mobile multi-access management in future wireless IP networks**  
 Altuntas S., Baykal B.  
 COMPUTER NETWORKS, cilt.47, sa.4, ss.577-592, 2005 (SCI-Expanded)
- XIII. **Joint spatial and temporal channel-shortening techniques for frequency selective fading MIMO channels**  
 Toker C., Lambotharan S., Chambers J., Baykal B.  
 IEE PROCEEDINGS-COMMUNICATIONS, cilt.152, sa.1, ss.89-94, 2005 (SCI-Expanded)
- XIV. **Blind channel estimation via combining autocorrelation and blind phase estimation**  
 Baykal B.  
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- XV. **Blind matched filter receiver**  
 Baykal B.  
 IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I-REGULAR PAPERS, cilt.51, sa.2, ss.379-390, 2004 (SCI-Expanded)
- XVI. **Matrix quantization and mixed excitation based linear predictive speech coding at very low bit rates**  
 Ozaydin S., Baykal B.  
 SPEECH COMMUNICATION, cilt.41, ss.381-392, 2003 (SCI-Expanded)
- XVII. **Matched filtering for CMA-based blind channel estimation**  
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- XVIII. **Methodology for performance analysis of randomly-spread CDMA systems over multipath fading channels via crosscorrelation matrix non-asymptotic average eigenvalue densities**  
 Ertug O., Baykal B., Unal B.  
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- XIX. **Complexity reduction in radial basis function (RBF) networks by using radial B-spline functions**  
 Saranli A., Baykal B.  
 NEUROCOMPUTING, cilt.18, ss.183-194, 1998 (SCI-Expanded)

### Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **An Energy Efficient Optimum Shared Cell Scheduling for TSCH Networks**  
 Ozceylan B., Unlu B., BAYKAL B.  
 13th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), Rome, İtalya, 9 - 11 Ekim 2017, ss.395-402
- II. **A method for providing energy efficient neighborhood maintenance in MANETs**  
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 2016 IEEE 12th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), 17 - 19 Ekim 2016
- III. **Topology Control Vector Based Forwarding Algorithm for Underwater Acoustic Networks**  
 Yazgi I., BAYKAL B.  
 24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1141-1144
- IV. **A Holistic Work System Framework (HWSF) Development Using Systems Thinking**  
 Ozalp E., BAYKAL B.  
 Portland International Conference on Management of Engineering & Technology (PICMET), Kanazawa, Japonya, 27 - 31 Temmuz 2014, ss.2056-2069
- V. **Track Loss versus Computation Time Dilemma in Multitarget Ground Target Tracking Performance**  
 Korkmaz Y., BAYKAL B.

- 16th International Conference on Information Fusion (FUSION), İstanbul, Türkiye, 9 - 12 Temmuz 2013, ss.2168-2176
- VI. **Ground Target Tracking of a Temporarily Invisible Target due to Topographic Constraints**  
Alat G., LEBLEBİCİOĞLU M. K., BAYKAL B.  
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 Nisan 2013
- VII. **Target Localization and Velocity Estimation Methods for Frequency-Only MIMO Radars**  
Kalkan Y., BAYKAL B.  
IEEE Radar Conference (RADAR), Missouri, Amerika Birleşik Devletleri, 23 - 27 Mayıs 2011, ss.458-463
- VIII. **Integrating navigation surveillance of Unmanned Air Vehicles into the civilian national airspaces by using ADS-B applications**  
Pahsa A., Kaya P., Alat G., BAYKAL B.  
ICNS 2011 - Integrated Communications, Navigation and Surveillance Conference, 10 - 12 Mayıs 2011
- IX. **Frequency based target localization methods for MIMO radar**  
KALKAN Y., BAYKAL B.  
2011 IEEE 19th Signal Processing and Communications Applications Conference, SIU 2011, 20 - 22 Nisan 2011
- X. **Effect of quantization on MIMO radar performance Nicemlemenin MIMO radar başarımındaki etkisi**  
Yazici A., BAYKAL B.  
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Türkiye, 22 - 24 Nisan 2010, ss.546-549
- XI. **The detection performance of Neyman-Pearson detector for MIMO radar in K-distributed sea clutter**  
K-dağılımlı deniz yankısı ortamında MIMO radarlar için Neyman-Pearson sezimleyicinin tespit başarımı  
Yazici A., Hamurcu A. Ç., BAYKAL B.  
18th IEEE Signal Processing and Communications Applications Conference, SIU 2010, Diyarbakır, Türkiye, 22 - 24 Nisan 2010, ss.165-168
- XII. **A data-centric framework for network enabled C4ISR software systems**  
Karaca H. N., Üksel H. M., Tüzün E., Kılıç I., BAYKAL B.  
25th International Symposium on Computer and Information Sciences, ISCIS 2010, London, İngiltere, 22 - 24 Eylül 2010, cilt.62 LNEE, ss.173-176
- XIII. **Fault Tree Analysis of a Fire Hazard of a Power Distribution Cabinet with Petri Nets**  
Pahsa A., Bayazit T. A., Alat G., Baykal B., Havelsan A. S., Binasi A.  
IEEE International Conference on Systems, Man and Cybernetics, İstanbul, Türkiye, 10 - 13 Ekim 2010
- XIV. **Target Localization Methods for Frequency-Only MIMO Radar**  
Kalkan Y., BAYKAL B.  
7th European Radar Conference (EURAD), Paris, Fransa, 30 Eylül - 01 Ekim 2010, ss.396-399
- XV. **MIMO Radar Target Localization by Using Doppler Shift Measurements**  
KALKAN Y., BAYKAL B.  
2009 European Radar Conference (EuRAD 2009), 30 Eylül - 02 Ekim 2009
- XVI. **MIMO Radar Target Localization by Using Doppler Shift Measurement**  
Kalkan Y., BAYKAL B.  
6th European Radar Conference, Rome, İtalya, 30 Eylül - 02 Ekim 2009, ss.489-490
- XVII. **A Buffer Zone Computation Algorithm for Corridor Rendering in GIS**  
Er E., Kilinc I., Gezici G., BAYKAL B.  
24th International Symposium on Computer and Information Sciences, Güzelyurt, Kıbrıs (Kktc), 14 - 16 Eylül 2009, ss.431-432
- XVIII. **Using Continuous Integration and Automated Test Techniques for a Robust C4ISR System**  
Yuksel H. M., Tuzun E., Gelirli E., Biyikli E., BAYKAL B.  
24th International Symposium on Computer and Information Sciences, Güzelyurt, Kıbrıs (Kktc), 14 - 16 Eylül 2009, ss.741-742
- XIX. **A Display Processing Software Application Framework for Mission Computer Systems**  
Kilinc I., Gezici G., Er E., Baykal B.

- 24th International Symposium on Computer and Information Sciences, Güzelyurt, Kıbrıs (Kktc), 14 - 16 Eylül 2009, ss.723-724
- XX. **A PRACTICAL POINT OF VIEW: PERFORMANCE OF NEYMAN-PEARSON DETECTOR FOR MIMO RADAR IN K-DISTRIBUTED CLUTTER**  
Yazici A., Hamurcu A. C., BAYKAL B.  
15th IEEE/SP Workshop on Statistical Signal Processing, Cardiff, Birleşik Krallık, 31 Ağustos - 03 Eylül 2009, ss.273-276
- XXI. **Combining Structural Analysis and Computer Vision Techniques for Automatic Speech Summarization**  
SERT M., BAYKAL B., YAZICI A.  
IEEE International Symposium on Multimedia, California, Amerika Birleşik Devletleri, 15 - 17 Aralık 2008, ss.515-516
- XXII. **Resource allocation modelling using methods of feasible directions in phased array radar systems**  
IRCI A., SARANLI A., BAYKAL B.  
2007 IET International Conference on Radar Systems, 15 - 18 Ekim 2007
- XXIII. **Block Transmissions on Orthogonal Carriers**  
Yazici A., BAYKAL B.  
64th IEEE Vehicular Technology Conference, Montreal, Kanada, 25 - 28 Eylül 2006, ss.852-856
- XXIV. **Generating expressive summaries for speech and musical audio using self-similarity clues**  
Sert M., Baykal B., Yazici A.  
IEEE International Conference on Multimedia and Expo (ICME 2006), Toronto, Kanada, 9 - 12 Temmuz 2006, ss.941-944
- XXV. **A robust and time-efficient fingerprinting model for musical audio**  
SERT M., BAYKAL B., YAZICI A.  
10th IEEE International Symposium on Consumer Electronics (ISCE 2006), St Petersburg, Rusya, 28 Haziran - 01 Temmuz 2006, ss.628-629
- XXVI. **On optimal resource allocation in multifunction radar systems**  
Irci A., SARANLI A., BAYKAL B.  
2006 IEEE Radar Conference, Verona, İtalya, 24 - 27 Nisan 2006, ss.684-685
- XXVII. **A real-time optimal resource allocation approach in a radar system**  
Irci A., Saranli A., BAYKAL B.  
IEEE 14th Signal Processing and Communications Applications, Antalya, Türkiye, 16 - 19 Nisan 2006, ss.846-847
- XXVIII. **Maximum total ergodic spectral efficiency of randomly-spread coded-CDMA with linear multiuser receivers over multipath fading channels**  
Ertug Z., Unal B., Baykal B., Yucel M.  
IEEE Global Telecommunications Conference (GLOBECOM 03), San-Francisco, Kostarika, 1 - 05 Aralık 2003, ss.1568-1572
- XXIX. **Comparison of methods for extracting of evoked potentials**  
Kilic S., Gencer N., Baykal B.  
25th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, Cancun, Meksika, 17 - 21 Eylül 2003, cilt.25, ss.2495-2498
- XXX. **A new approach to unified performance analysis of randomly-spread CDMA systems over multipath fading channels via crosscorrelation matrix non-asymptotic average eigenvalue distributions**  
Ertug O., Baykal B., Sayrac B.  
14th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, Beijing, Çin, 7 - 10 Eylül 2003, ss.564-568
- XXXI. **A QoS-Aware handoff using RSVP in next generation wireless networks**  
Baykal B., Akan O.  
8th IEEE International Symposium on Computers and Communication (ISCC 2003), Antalya, Türkiye, 30 Haziran - 03 Temmuz 2003, ss.125-130
- XXXII. **Total outage capacity of randomly-spread coded-CDMA with linear multiuser receivers over**

### **multipath fading channels**

Ertug O., Sayrac B., Baykal B., Yucel M.

8th IEEE International Symposium on Computers and Communication (ISCC 2003), Antalya, Türkiye, 30 Haziran - 03 Temmuz 2003, ss.913-918

**XXXIII. Dynamic SLA management in cellular DiffServ networks**

Akan O., Baykal B.

10th International Conference on Telecommunications (ICT 2003), Papeete, Fransız Polinezyası, 23 Şubat - 01 Mart 2003, ss.330-333

**XXXIV. An IP multicast handoff scheme with focus on IGMP sourced latency**

Baykal B., Akdemir O., Akan O.

5th IEEE International Conference on High Speed Networks and Multimedia Communications (HSNMC 2002), Jeju-Si, Güney Kore, 3 - 05 Temmuz 2002, ss.361-364

**XXXV. Space-time-frequency decorrelating decision-feedback multiuser detector over fast-fading multipath channels for synchronous DS-CDMA systems**

Ertug O., Baykal B., Unal B.

54th IEEE Vehicular Technology Conference (VTC 2001), New-Jersey, Amerika Birleşik Devletleri, 7 - 11 Ekim 2001, ss.328-332

**XXXVI. Space-time-frequency multiuser detection over fast-fading multipath channels for synchronous DS-CDMA systems**

Ertug O., Baykal B.

53rd IEEE Vehicular Technology Conference (VTC), RHODES, Yunanistan, 6 - 09 Mayıs 2001, ss.1503-1507

**XXXVII. Time-frequency decorrelating decision-feedback multiuser detector over fast-fading multipath channels for synchronous DS-CDMA systems**

Ertug O., Baykal B.

3rd IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC 01), Taoyuan, Tayvan, 20 - 23 Mart 2001, ss.170-173

## **Metrikler**

Yayın: 56

Atıf (WoS): 245

Atıf (Scopus): 218

H-İndeks (WoS): 8

H-İndeks (Scopus): 7

## **Akademi Dışı Deneyim**

METU

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Başkent University

Imperial College, University of London

Imperial College, University of London

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