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### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: [170252](https://yoksis.ankara.edu.tr/170252)

### Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri Anabilim Dalı, Türkiye 2007 - 2014

Yüksek Lisans, Syracuse University, Amerika Birleşik Devletleri 1999 - 2001

Lisans, Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Türkiye 1993 - 1997

### Yaptığı Tezler

Doktora, Improved probabilistic matrix factorization model for sparse datasets, Orta Doğu Teknik Üniversitesi, Enformatik Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2014

### Araştırma Alanları

Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Ankara Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2020 - Devam Ediyor

Araştırma Görevlisi, Ankara Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2004 - 2020

### Akademik İdari Deneyim

Dekan Yardımcısı, Ankara Üniversitesi, Mühendislik Fakültesi, 2022 - Devam Ediyor

### Yönetilen Tezler

AR Y., Uygulama programlama arayüzü (UPA) çağrılarının kullanılmasına dayalı makine öğrenmesi yöntemleriyle zararlı yazılım tespiti, Yüksek Lisans, A.KUTAY(Öğrenci), 2021

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

- I. **A new approach to Mergesort algorithm: Divide smart and conquer**  
Emrah Amrahov S., AR Y., TUĞRUL B., Akay B. E., Kartli N.  
Future Generation Computer Systems, cilt.157, ss.330-343, 2024 (SCI-Expanded)
- II. **Deep Learning-Based Classification of Image Data Sets Containing 111 Different Seeds**  
Tuğrul B., Eryiğit R., Ar Y.  
Advanced Theory and Simulations, cilt.6, sa.11, 2023 (SCI-Expanded)
- III. **A Machine Learning Approach to Malware Detection Using Application Programming Interface Calls (MDAPI)**  
Yuksel A. K., Ar Y.  
Traitement du Signal, cilt.40, sa.4, ss.1511-1520, 2023 (SCI-Expanded)
- IV. **Pros and Cons of Telemedicine for Inherited Metabolic Disorders in a Developing Country During the COVID-19 Pandemic**  
Yekeduez M., DOĞULU N., SÜRÜCÜ KARA İ., Oncul U., BAKIRARAR B., KÜLLÜ P., AR Y., KÖSE E., EMİNOĞLU F. T.  
TELEMEDICINE AND E-HEALTH, cilt.28, sa.11, ss.1604-1612, 2022 (SCI-Expanded)
- V. **A NEW CURVE FITTING BASED RATING PREDICTION ALGORITHM FOR RECOMMENDER SYSTEMS**  
Ar Y., Amrahov Ş., Gasilov N., Yiğit Sert S.  
KYBERNETIKA, cilt.58, sa.3, ss.440-455, 2022 (SCI-Expanded)
- VI. **Mapping application-specific topology to mesh topology with reconfigurable switches**  
KÜLLÜ P., AR Y., TOSUN S., Ozdemir S.  
IET COMPUTERS AND DIGITAL TECHNIQUES, cilt.14, sa.1, ss.9-16, 2020 (SCI-Expanded)
- VII. **Evolutionary approaches for weight optimization in collaborative filtering-based recommender systems**  
YİĞİT SERT S., AR Y., BOSTANCI G. E.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.27, sa.3, ss.2121-2136, 2019 (SCI-Expanded)
- VIII. **A genetic algorithm solution to the collaborative filtering problem**  
AR Y., BOSTANCI G. E.  
EXPERT SYSTEMS WITH APPLICATIONS, cilt.61, ss.122-128, 2016 (SCI-Expanded)
- IX. **Application-specific topology generation algorithms for network-on-chip design**  
Tosun S., Ar Y., Ozdemir S.  
IET COMPUTERS AND DIGITAL TECHNIQUES, cilt.6, sa.5, ss.318-333, 2012 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

- I. **Classification of human activities by smart device measurements**  
KALKAN M., AR Y.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.65, sa.2, ss.166-178, 2023 (Hakemli Dergi)
- II. **Prediction of software quality with Machine Learning-Based ensemble methods**  
CERAN A. A., AR Y., TANRIÖVER Ö. Ö., Seyrek Ceran S.  
Materials Today: Proceedings, cilt.81, ss.18-25, 2023 (Scopus)
- III. **A method for analyzing suspect-filler similarity using convolutional neural networks**  
AYDIN D. E., AR Y.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.64, sa.2, ss.129-151, 2022 (Hakemli Dergi)
- IV. **Emotion Recognition System from Speech using Convolutional Neural Networks**  
AYDIN M., TUĞRUL B., AR Y.  
Journal of Computer Science, 2022 (Hakemli Dergi)
- V. **An initialization method for the latent vectors in probabilistic matrix factorization for sparse**

## **datasets**

AR Y.

EVOLUTIONARY INTELLIGENCE, cilt.13, sa.2, ss.269-281, 2020 (ESCI)

- VI. **An Ensemble Model for Collaborative Filtering to Involve All Aspects of Dataset**  
AR Y.  
Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, cilt.60, sa.2, ss.15-26, 2018 (Hakemli Dergi)
- VII. **A Thread Building Blocks Based Parallel Genetic Algorithm**  
BOSTANCI G. E., AR Y., YİĞİT SERT S.  
International Journal of Research and Reviews in Applied Sciences, cilt.31, sa.1, ss.1-8, 2017 (Hakemli Dergi)
- VIII. **Transitive Associations for Domain Transfer Problem on Opinion Mining**  
AR Y.  
International Journal of Advances in Computer Science and Its Applications, cilt.6, sa.1, ss.232-238, 2016 (Hakemli Dergi)

## **Kitap & Kitap Bölümleri**

- I. **BİR C++ PROGRAMININ YAZILMASI, DERLENMESİ VE ÇALIŞTIRILMASI**  
AR Y.  
Programlama Temelleri, , Editör, ATATÜRK ÜNİVERSİTESİ AÇIKÖĞRETİM FAKÜLTESİ YAYINEVİ, ss.65-82, 2019
- II. **İLK C++ PROGRAMI (MERHABA DÜNYA)**  
AR Y.  
Programlama Temelleri, , Editör, ATATÜRK ÜNİVERSİTESİ AÇIKÖĞRETİM FAKÜLTESİ YAYINEVİ, ss.47-64, 2019

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

- I. **An Artificial Bee Colony Based Mapping Method for Three Dimensional Network-on-Chip**  
KÜLLÜ P., YİĞİT SERT S., ÖZKAN OKAY M., AR Y.  
2023 International Conference on Emerging Trends in Networks and Computer Communications (ETNCC), NAMİBİA, 16 - 18 Ağustos 2023
- II. **A NEW DATASET FOR INTRUSION DETECTION IN WIRELESS LOCAL AREA NETWORK**  
ÖZKAN OKAY M., AR Y., SAMET R.  
The 8th International Conference on Control and Optimization with Industrial Applications, Azerbaycan, 24 Ağustos 2022
- III. **Prediction of Software Quality with Machine Learning-Based Ensemble Methods**  
CERAN A. A., AR Y., TANRIÖVER Ö. Ö., SEYREK CERAN S.  
4th International Engineering Research Symposium, Türkiye, 4 - 06 Mart 2022
- IV. **Automobile Price Prediction in Turkey Marketplace with Linear Regression**  
Satioglu M. C., AR Y., TUĞRUL B.  
International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Bolu, Türkiye, 21 Ekim 2021
- V. **Evolutionary Fuzzy Adaptive Motion Models for User Tracking in Augmented Reality Applications**  
AR Y., ÜNAL M., Sert S. Y., BOSTANCI G. E., Kanwal N., GÜZEL M. S.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018, Kizilcahamam, Ankara, Türkiye, 19 - 21 Ekim 2018
- VI. **Evolutionary Fuzzy Adaptive Motion Models for User Tracking in Augmented Reality Applications**  
AR Y., ÜNAL M., YİĞİT S., BOSTANCI G. E., Kanwal N., GÜZEL M. S.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2018, Kizilcahamam, Ankara, Türkiye, 19 - 21 Ekim 2018

- VII. **The Impact of Dataset Characteristics on Collaborative Filtering**  
AR Y., ÖZDEMİR O. C.  
International Conference on Theoretical and Applied Computer Science and Engineering, Türkiye, 10 - 11 Kasım 2017
- VIII. **Development of Recommender Systems Based on the Curve Fitting Method**  
EMRAH Ş., AR Y., GASİLOV N., FATULLAYEV A. G.  
International Conference on Mathematics and Mathematics Education, Türkiye, 12 - 14 Mayıs 2016
- IX. **Transitive Associations for Domain Transfer Problem on Opinion Mining**  
AR Y.  
Third International Conference on Advances in Information Processing and Communication Technology - IPCT 2015, ROMA, İtalya, 10 - 11 Aralık 2015
- X. **Power-aware topology generation for application specific NoC design**  
Tosun S., AR Y., Ozdemir S.  
2012 6th International Conference on Application of Information and Communication Technologies, AICT 2012, Tbilisi, Gürcistan, 17 - 19 Ekim 2012
- XI. **TopGen: A new algorithm for automatic topology generation for network on chip architectures to reduce power consumption**  
AR Y., Tosun S., Kaplan H.  
2009 International Conference on Application of Information and Communication Technologies, AICT 2009, Baku, Azerbaycan, 14 - 16 Ekim 2009

## Desteklenen Projeler

Ar Y., Ünal M., Yiğit Sert S., Bostancı G. E., Yükseköğretim Kurumları Destekli Proje, Artırılmış Gerçeklik Uygulamalarında GPS-INS Tabanlı Kullanıcı Takibi için Akıllı Hareket Modeli Seçim Yöntemi Geliştirilmesi, 2016 - 2018

## Metrikler

Yayın: 31

Atıf (WoS): 95

Atıf (Scopus): 129

H-İndeks (WoS): 3

H-İndeks (Scopus): 4