

Assoc. Prof. YILMAZ AR

Personal Information

Email: ar@ankara.edu.tr

Web: <https://avesis.ankara.edu.tr/ar>

International Researcher IDs

ScholarID: xhHbbOsAAAAJ

ORCID: 0000-0003-2370-357X

Publons / Web Of Science ResearcherID: AAF-8395-2020

ScopusID: 35730956900

Yoksis Researcher ID: 170252

Education Information

Doctorate, Middle East Technical University, Graduate School Of Informatics, Information Systems, Turkey 2007 - 2014

Postgraduate, Syracuse University, United States Of America 1999 - 2001

Undergraduate, Bursa Uludağ University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 1993 - 1997

Dissertations

Doctorate, Improved probabilistic matrix factorization model for sparse datasets, Middle East Technical University, Graduate School Of Informatics, Information Systems, 2014

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2020 - Continues

Research Assistant, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2004 - 2020

Academic and Administrative Experience

Vice Dean, Ankara University, Mühendislik Fakültesi, 2022 - Continues

Advising Theses

Ar Y., Emotion recognition using deep learning focusing on the hand and facial expressions, Postgraduate, H.JAWAD(Student), 2024

Ar Y., Amped authenticate yazılımı kullanılarak sayısal görüntü üzerinde şüpheli kameranın tespit edilebilirliği, Postgraduate, M.GÜMÜŞ(Student), 2023

Tanrıöver Ö. Ö., AR Y., Makine öğrenmesi tabanlı topluluk yöntemleri ile yazılım kalitesi tahmini, Postgraduate, A.AYBERK(Student), 2022

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

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.157, pp.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, vol.6, no.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, vol.40, no.4, pp.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, vol.28, no.11, pp.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, vol.58, no.3, pp.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, vol.14, no.1, pp.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, vol.27, no.3, pp.2121-2136, 2019 (SCI-Expanded)
- VIII. **A genetic algorithm solution to the collaborative filtering problem**
AR Y., BOSTANCI G. E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.61, pp.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, vol.6, no.5, pp.318-333, 2012 (SCI-Expanded)

Articles Published in Other Journals

- 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, vol.65, no.2, pp.166-178, 2023 (Peer-Reviewed Journal)
- 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, vol.81, pp.18-25, 2023 (Scopus)
- III. **Classification of Trifolium Seeds by Computer Vision Methods**

Eryiğit R., Ar Y., Tuğrul B.

WSEAS Transactions on Systems, vol.22, pp.313-320, 2023 (Scopus)

- IV. **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, vol.64, no.2, pp.129-151, 2022 (Peer-Reviewed Journal)
- V. **Emotion Recognition System from Speech using Convolutional Neural Networks**
AYDIN M., TUĞRUL B., AR Y.
Journal of Computer Science, 2022 (Peer-Reviewed Journal)
- VI. **An initialization method for the latent vectors in probabilistic matrix factorization for sparse datasets**
AR Y.
EVOLUTIONARY INTELLIGENCE, vol.13, no.2, pp.269-281, 2020 (ESCI)
- VII. **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, vol.60, no.2, pp.15-26, 2018 (Peer-Reviewed Journal)
- VIII. **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, vol.31, no.1, pp.1-8, 2017 (Peer-Reviewed Journal)
- IX. **Transitive Associations for Domain Transfer Problem on Opinion Mining**
AR Y.
International Journal of Advances in Computer Science and Its Applications, vol.6, no.1, pp.232-238, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

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

Refereed Congress / Symposium Publications in Proceedings

- 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), NAMÍBÍA, 16 - 18 August 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, Azerbaijan, 24 August 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, Turkey, 4 - 06 March 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, Turkey, 21 October 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, Turkey, 19 - 21 October 2018

VI. The Impact of Dataset Characteristics on Collaborative Filtering

AR Y., ÖZDEMİR O. C.

International Conference on Theoretical and Applied Computer Science and Engineering, Turkey, 10 - 11 November 2017

VII. 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, Turkey, 12 - 14 May 2016

VIII. 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, Italy, 10 - 11 December 2015

IX. 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, Georgia, 17 - 19 October 2012

X. 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, Azerbaijan, 14 - 16 October 2009

Supported Projects

Ar Y., Ünal M., Yiğit Sert S., Bostancı G. E., Project Supported by Higher Education Institutions, Artırılmış Gerçeklik Uygulamalarında GPS-INS Tabanlı Kullanıcı Takibi için Akıllı Hareket Modeli Seçim Yöntemi Geliştirilmesi, 2016 - 2018

Metrics

Publication: 30

Citation (WoS): 115

Citation (Scopus): 144

H-Index (WoS): 5

H-Index (Scopus): 4