

## Asst. Prof. YASİN GÖRMEZ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: JEF-8096-2023

Yoksis Researcher ID: 238648

### Education Information

Doctorate, Abdullah Gul University, Fen Bilimleri Enstitüsü, Electrical and Computer Engineering, Turkey 2018 - 2022

Postgraduate, Abdullah Gul University, Fen Bilimleri Enstitüsü, Electric and Computer Engineering, Turkey 2015 - 2017

Undergraduate, Meliksah University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, Turkey 2010 - 2015

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Developing Deep Learning Models for Protein Structure Prediction, Abdullah Gul University, Fen Bilimleri Enstitüsü, Electrical and Computer Engineering, 2022

Postgraduate, Dimensionality reduction for protein secondary structure prediction, Abdullah Gul University, 2017

### Research Areas

algorithms, bioinformatics, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Natural Language Processing, Text/Document Processing, Neural Networks, Software Engineering

### Published journal articles indexed by SCI, SSCI, and AHCI

- Hybrid Explainable Artificial Intelligence Models for Targeted Metabolomics Analysis of Diabetic Retinopathy**  
YAĞIN F. H., ÇOLAK C., Algarni A., GÖRMEZ Y., GÜLDOĞAN E., Ardigò L. P.  
Diagnostics, vol.14, no.13, 2024 (SCI-Expanded)
- A deep learning-based solution for digitization of invoice images with automatic invoice generation and labelling**  
Arslan H., Işık Y. E., Görmez Y.  
INTERNATIONAL JOURNAL ON DOCUMENT ANALYSIS AND RECOGNITION, vol.27, no.1, pp.97-109, 2024 (SCI-

Expanded)

- III. **Customized deep learning based Turkish automatic speech recognition system supported by language model**  
GÖRMEZ Y.  
PeerJ Computer Science, vol.10, 2024 (SCI-Expanded)
- IV. **Machine Learning and Text Mining based Real-Time Semi-Autonomous Staff Assignment System**  
Arslan H., Işık Y. E., Görmez Y., Temiz M.  
Computer Science and Information Systems, vol.21, no.1, pp.75-94, 2024 (SCI-Expanded)
- V. **Explainable Artificial Intelligence Paves the Way in Precision Diagnostics and Biomarker Discovery for the Subclass of Diabetic Retinopathy in Type 2 Diabetics**  
YAĞIN F. H., YAŞAR Ş., GÖRMEZ Y., Yagin B., Pinar A., Alkhateeb A., Ardigò L. P.  
Metabolites, vol.13, no.12, 2023 (SCI-Expanded)
- VI. **Estimation of Obesity Levels through the Proposed Predictive Approach Based on Physical Activity and Nutritional Habits**  
GÖZÜKARA BAĞ H. G., YAĞIN F. H., GÖRMEZ Y., González P. P., ÇOLAK C., Gülü M., Badicu G., Ardigò L. P.  
Diagnostics, vol.13, no.18, 2023 (SCI-Expanded)
- VII. **Estimation of Obesity Levels with a Trained Neural Network Approach optimized by the Bayesian Technique**  
YAĞIN F. H., Gülü M., GÖRMEZ Y., Castañeda-Babarro A., ÇOLAK C., Greco G., Fischetti F., Cataldi S.  
Applied Sciences (Switzerland), vol.13, no.6, 2023 (SCI-Expanded)
- VIII. **IGPRED-MultiTask: A Deep Learning Model to Predict Protein Secondary Structure, Torsion Angles and Solvent Accessibility**  
Görmez Y., Aydın Z.  
IEEE/ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, vol.1, no.1, pp.1-12, 2022 (SCI-Expanded)
- IX. **The Determination of Distinctive Single Nucleotide Polymorphism Sets for the Diagnosis of Behcet's Disease**  
IŞIK Y. E., GÖRMEZ Y., AYDIN Z., Bakir-Gungor B.  
IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, vol.19, no.3, pp.1909-1918, 2022 (SCI-Expanded)
- X. **IGPRED: Combination of convolutional neural and graph convolutional networks for protein secondary structure prediction**  
GÖRMEZ Y., Sabzekar M., AYDIN Z.  
PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS, vol.89, no.10, pp.1277-1288, 2021 (SCI-Expanded)
- XI. **Crowdsourcing digital health measures to predict Parkinson's disease severity: the Parkinson's Disease Digital Biomarker DREAM Challenge**  
Sieberts S. K., Schaff J., Duda M., Pataki B. Á., Sun M., Snyder P., Daneault J., Parisi F., Costante G., Rubin U., et al.  
NPJ DIGITAL MEDICINE, vol.4, no.1, 2021 (SCI-Expanded)
- XII. **Multi fragment melting analysis system (MFMAS) for one-step identification of lactobacilli**  
KESMEN Z., Kilic O., GÖRMEZ Y., ÇELİK M., Bakir-Gungor B.  
JOURNAL OF MICROBIOLOGICAL METHODS, vol.177, 2020 (SCI-Expanded)
- XIII. **A deep learning approach with Bayesian optimization and ensemble classifiers for detecting denial of service attacks**  
Görmez Y., AYDIN Z., Karademir R., GÜNGÖR V. Ç.  
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.33, no.11, 2020 (SCI-Expanded)
- XIV. **Dimensionality reduction for protein secondary structure and solvent accesibility prediction**  
AYDIN Z., KAYNAR O., GÖRMEZ Y.  
JOURNAL OF BIOINFORMATICS AND COMPUTATIONAL BIOLOGY, vol.16, no.5, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Evrşimsel Sinir Ağları Tabanlı Derin Öğrenme Yöntemiyle Müşteri Şikayetlerinin Sınıflandırılması**  
TUNA M. F., GÖRMEZ Y.  
Bingöl Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi (Online), vol.8, no.1, pp.31-46, 2024 (Peer-Reviewed Journal)
- II. **Türkçe Metinlerde Duygu Analizi: Derin Öğrenme Yaklaşımlarının ve Ön İşlem Süreçlerinin Model Performansına Etkisi**  
GÖRMEZ Y., ARSLAN H., ATAK B.  
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.36, no.1, pp.509-520, 2024 (Peer-Reviewed Journal)
- III. **A novel hybrid model for bluetooth low energy-based indoor localization using machine learning in the internet of things**  
GÖRMEZ Y., ARSLAN H., IŞIK Y. E., TOMAÇ S.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.30, no.1, pp.36-43, 2024 (ESCI)
- IV. **Developing Novel Deep Learning Models to Detect Insider Threats and Comparing the Models from Different Perspectives**  
GÖRMEZ Y., ARSLAN H., IŞIK Y. E., GÜNDÜZ V.  
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.17, no.1, pp.31-43, 2024 (Peer-Reviewed Journal)
- V. **DtyPAM: Kurumsal Destek Firmaları için Önerilmiş Konteynır Tabanlı Ayrıcalıklı Erişim Yönetim Sistemi**  
ŞİMŞEK H. K., ARSLAN H., GÖRMEZ Y.  
Bilgisayar Bilimleri ve Teknolojileri Dergisi, vol.4, no.2, pp.67-75, 2023 (Peer-Reviewed Journal)
- VI. **A User and Entity Behavior Analysis for SIEM Systems: Preprocessing of The Computer Emergency and Response Team Dataset**  
Görmez Y., Arslan H., Işık Y. E., Dadaş İ. E.  
Journal of Soft Computing and Artificial Intelligence, vol.4, no.1, pp.1-6, 2023 (Peer-Reviewed Journal)
- VII. **Prediction of Interest Through Machine Learning Methods for Personalized Foreign Language Learning**  
Görmez Y., Okumuş Dağdeler K., Kavuklu M.  
Yükseköğretim ve Bilim Dergisi/Journal of Higher Education and Science, vol.12, no.1, pp.111-121, 2022 (Peer-Reviewed Journal)
- VIII. **SALDA-ML: Machine Learning Based System Design to Predict Salary In-crease**  
GÖRMEZ Y., ARSLAN H., SARI S., DANIŞ M.  
Advances in Artificial Intelligence Research, vol.2, no.1, pp.15-19, 2022 (Peer-Reviewed Journal)
- IX. **FBSEM: A Novel Feature-Based Stacked Ensemble Method for Sentiment Analysis**  
GÖRMEZ Y., IŞIK Y. E., TEMİZ M., AYDIN Z.  
International Journal of Information Technology and Computer Science, vol.12, pp.11-22, 2020 (Peer-Reviewed Journal)
- X. **Classification of Cardiovascular Artery Diseases Using Artificial Neural Network**  
Hacılar H., GÖRMEZ Y., GÜNGÖR B., Gezer C., AYDIN Z., GÜNGÖR V. Ç.  
International Journal of Bioscience, Biochemistry and Bioinformatics, vol.10, no.1, 2020 (Peer-Reviewed Journal)
- XI. **Makine Öğrenmesi ve Öznitelik Seçim Yöntemleriyle Saldırı Tespiti**  
KAYNAR O., ARSLAN H., GÖRMEZ Y., IŞIK Y. E.  
Bilişim Teknolojileri Dergisi, vol.11, no.2, pp.175-185, 2018 (Peer-Reviewed Journal)
- XII. **OTOMATİK METİN ÖZETLEME İÇİN GENETİK ALGORİTMA TABANLI CÜMLE ÇIKARIMI**  
KAYNAR O., IŞIK Y. E., GÖRMEZ Y., DEMİRKOPARAN F.  
Yönetim Bilişim Sistemleri Dergisi, vol.3, pp.62-75, 2017 (Peer-Reviewed Journal)
- XIII. **Sentiment Analizinde Öznitelik Düşürme Yöntemlerinin Oto Kodlayıcı Derin Öğrenme Makinaları ile Karşılaştırılması**

KAYNAR O., AYDIN Z., GÖRMEZ Y.

Bilişim Teknolojileri Dergisi, vol.10, no.3, pp.319-326, 2017 (Peer-Reviewed Journal)

**XIV. CUSTOMER CHURN ANALYSIS VIA MACHINE LEARNING METHODS**

Kaynar O., Tuna M. F., Görmez Y., Deveci M. A.

Cumhuriyet Üniversitesi İktisadi ve İdari Bilimler Dergisi, vol.18, no.1, pp.1-14, 2017 (Peer-Reviewed Journal)

## **Books & Book Chapters**

**I. A Transfer Learning Approach for Skin Cancer Subtype Detection**

Görmez Y., Koluksa B., Aydın Z.

in: 4th International Conference on Artificial Intelligence and Applied Mathematics in Engineering, D. Jude Hemanth, Tuncay Yigit, Utku Kose, Ugur Guvenc, Editor, Springer Nature, Zürich, pp.1-11, 2023

## **Refereed Congress / Symposium Publications in Proceedings**

**I. BayesianOptFs: Bayesian Optimization Based Novel Feature Selection Method for Classification Models**

Görmez Y.

2024 32nd Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 15 - 18 May 2024, pp.1-4

**II. Machine Learning and Event-Based User and Entity Behavior Analysis**

ÖNAL V., ARSLAN H., GÖRMEZ Y.

2024 32nd Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 15 May 2024, pp.1-4

**III. Research and Evaluation of Video Conferencing Systems in the Context of Distance Education/Working Processes**

GÜLLER G., ARSLAN H., GÖRMEZ Y.

2023 Innovations in Intelligent Systems and Applications Conference (ASYU), Sivas, Turkey, 11 October 2023, pp.1-5

**IV. CUSTOMIZABLE HARDWARE COMMUNICATION PROTOCOL FOR INDUSTRIAL AUTOMATIONS**

KELEK Ö. F., GÜLER Z., GÖRMEZ Y., ARSLAN H.

IV. International Science and Innovation Congress, Turkey, 27 - 30 July 2023, pp.42-43

**V. DIGITAL WAREHOUSE MANAGEMENT APPLICATION**

ARSLAN H., GÖRMEZ Y., ELYAKAN M. L.

5. INTERNATIONAL MARMARA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Ankara, Turkey, 17 - 18 June 2023, pp.213-214

**VI. DEVELOPMENT OF A NEW XMPP EXTENSION FOR ARTIFICIAL INTELLIGENCE BASED CHATBOTS**

ARSLAN H., GÖRMEZ Y., EKER A., SAĞLIK B.

5. INTERNATIONAL MARMARA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Ankara, Turkey, 17 June 2023, pp.211-212

**VII. Detection and Classification of Closed Angle Glaucoma Using Optical Coherence Tomography Images  
Optik Koherens Tomografi Gruntleri Kullanılarak Kapali Aili Glokom Tespiti ve Siniflandırılması**

Teke F., KAYNAR O., GÖRMEZ Y.

2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023

**VIII. Development of Syslog Module for Connecting Sap Systems to SIEM Software**

ARSLAN H., GÜNDÜZ V., IŞIK Y. E., GÖRMEZ Y.

14th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Sivas, Turkey, 18 July 2022, pp.642-643

- IX. **Tracking IoT Based Production Lines, 3d Monitoring and the Platform of Productivity Analysis**  
GÖRMEZ Y., ARSLAN H., IŞIK Y. E., ELYAKAN M. L.  
14th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Sivas, Turkey, 18 July 2022
- X. **Infrastructure Building Platform for Enterprise Private Cloud Systems: An Application with Machine Learning**  
ARSLAN H., GÖRMEZ Y., DADAŞ İ. E., ŞEVİRAN E., GÜNDÜZ V.  
International Cumhuriyet Artificial Intelligence Applications Conference, Sivas, Turkey, 3 - 04 December 2021, pp.26-28
- XI. **ROSE: A Novel Approach for Protein Secondary Structure Prediction**  
Görmez Y., Aydın Z.  
The International Conference on Artificial Intelligence and Applied Mathematics in Engineering, Antalya, Turkey, 18 - 20 April 2020, pp.455-464
- XII. **Efficient and Scalable Broker Design for the Internet of Things Environments**  
GÖRMEZ Y., ARSLAN H., KELEK Ö. F.  
IEEE Signal Processing and Communications Applications (SIU), Gaziantep, Turkey, 05 October 2020, pp.1-4
- XIII. **NSEM: Novel Stacked Ensemble Method for Sentiment Analysis**  
IŞIK Y. E., GÖRMEZ Y., KAYNAR O., AYDIN Z.  
2018 International Conference on Artificial Intelligence and Data Processing (IDAP), Turkey, 28 - 29 September 2018
- XIV. **NSEM: Duygu Analizi için Özgün Yığılanmış Topluluk Yöntemi(NSEM: Novel Stacked Ensemble Method for Sentiment Analysis)**  
IŞIK Y. E., GÖRMEZ Y., KAYNAR O., AYDIN Z.  
IEEE 2018 International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018, pp.1-4
- XV. **The Identification of Discriminative Single Nucleotide Polymorphisms for the Classification of Behçets Disease**  
GÖRMEZ Y., IŞIK Y. E., GÜNGÖR B.  
International Conference on Computer Science and Engineering (UBMK), 20 - 23 September 2018
- XVI. **Otomatik Doküman Özetleme Sistemleri için Mobil Uygulama(Mobil application for automatic document summarization systems)**  
KAYNAR O., IŞIK Y. E., GÖRMEZ Y., KUS E.  
IEEE Conferences 2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- XVII. **Protein İkincil Yapı Tahmini için NR ve UniClustVeri Tabanlarının Karşılaştırılması (Comparison of NR and UniClust databases for protein secondary structure prediction)**  
AYDIN Z., KAYNAR O., GÖRMEZ Y.  
IEEE Conferences 2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- XVIII. **Protein İkincil Yapı Tahmini İçin Makine Öğrenmesi Yöntemlerinin Karşılaştırılması (Comparison of machine learning classifiers for protein secondary structure prediction)**  
AYDIN Z., KAYNAR O., GÖRMEZ Y., IŞIK Y. E.  
IEEE Conferences 2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018, vol.1
- XIX. **Feature Selection for Dihedral Angle Prediction**  
AYDIN Z., KAYNAR O., GÖRMEZ Y.  
2017 9th International Conference on Computational Intelligence and Communication Networks (CICN), 16 - 17 September 2017
- XX. **The Identification of Discriminative Single Nucleotide Polymorphism Sets for the Classification of Behçet's Disease**  
GÖRMEZ Y., IŞIK Y. E., BAKIR-GUNGOR B.  
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina,

20 - 23 September 2018, pp.443-447

- XXI. **NSEM: Novel Stacked Ensemble Method for Sentiment Analysis**  
Emre Isik Y., GÖRMEZ Y., KAYNAR O., AYDIN Z.  
International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018
- XXII. **Automatic Classification of Natural Stone Tiles with Computer Vision**  
KAYNAR O., TORUN Y., TEMİZ M., GÖRMEZ Y.  
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.527-532
- XXIII. **Comparison of graph based document summarization method**  
KAYNAR O., GÖRMEZ Y., IŞIK Y. E., DEMİRKOPARAN F.  
2017 International Conference on Computer Science and Engineering (UBMK), Turkey, 05 October 2017
- XXIV. **Çizge tabanlı doküman özetleme yöntemlerinin karşılaştırılması (Comparison of graph based document summarization method)**  
KAYNAR O., GÖRMEZ Y., IŞIK Y. E., DEMİRKOPARAN F.  
IEEE Conferences 2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 08 October 2017, pp.598-603
- XXV. **RFM Tabanlı Farklı Kümeleme Yöntemleriyle Müşteri Segmentasyonu**  
KAYNAR O., DEVECİ M. A., GÖRMEZ Y., IŞIK Y. E.  
International Conference on "Scientific Cooperation for the Future in Economics and Administrative Sciences, Selanik, Greece, 6 - 08 September 2017, pp.21
- XXVI. **Aşırı Öğrenme Makinaları ile Müşteri Ayrılma Analizi**  
KAYNAR O., GÖRMEZ Y., TUNA M. F., DEMİRKOPARAN F.  
International Conference on "Scientific Cooperation for the Future Economics and Administrative Sciences, Selanik, Greece, 6 - 08 September 2017, pp.23
- XXVII. **Oto kodlayıcı tabanlı derin öğrenme makinaları ile saldırı tespiti (Intrusion detection with autoencoder based deeplearning machine)**  
KAYNAR O., YÜKSEK A. G., GÖRMEZ Y., IŞIK Y. E.  
IEEE Conferences 25. SINYAL ISLEME ve ILETISIM UYGULAMALARI KURULTAYI, Antalya, Turkey, 15 - 18 May 2017
- XXVIII. **Farklı Benzerlik Yöntemleriyle Çizge TabanlıOtomatik Doküman Özetleme (Graph Based Automatic Document Summarizationwith Different Similarity Methods)**  
KAYNAR O., IŞIK Y. E., GÖRMEZ Y., DEMİRKOPARAN F.  
IEEE Conferences 25.SINYAL ISLEME ve ILETISIM UYGULAMALARI KURULTAYI, Antalya, Turkey, 15 - 18 May 2017
- XXIX. **Graph Based Automatic Document Summarization with Different Similarity Methods**  
KAYNAR O., IŞIK Y. E., GÖRMEZ Y.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XXX. **Intrusion detection with autoencoder based deep learning machine**  
KAYNAR O., YÜKSEK A. G., GÖRMEZ Y., IŞIK Y. E.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XXXI. **Feature Selection Methods in Sentiment Analysis**  
KAYNAR O., ARSLAN H., GÖRMEZ Y., DEMİRKOPARAN F.  
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17 September 2017
- XXXII. **Feature Selection for Protein Dihedral Angle Prediction**  
AYDIN Z., KAYNAR O., GÖRMEZ Y.  
9th International Conference on Computational Intelligence and Communication Networks (CICN), Girne, Cyprus (Kktc), 16 - 17 September 2017, pp.48-52
- XXXIII. **Fabric Defect Detection with LBP-GLMC**  
KAYNAR O., IŞIK Y. E., GÖRMEZ Y., DEMİRKOPARAN F.  
2017 International Artificial Intelligence and Data Processing Symposium (IDAP), Malatya, Turkey, 16 - 17

September 2017

**XXXIV. Makine Öğrenmesi Yöntemleri ile Duygu Analizi**

KAYNAR O., GÖRMEZ Y., YILDIZ M., Albayrak A.

International Artificial Intelligence and Data Processing Symposium (IDAP'xx16), Malatya, Turkey, 17 - 18 September 2016, pp.234-241

**XXXV. Değişik Kümeleme Algoritmalarıyla Eğitilmiş Radyal Tabanlı Yapay Sinir Ağlarıyla Saldırı Tespiti**

KAYNAR O., GÖRMEZ Y., IŞIK Y. E., DEMİRKOPARAN F.

International Artificial Intelligence and Data Processing Symposium, 17 - 18 September 2016

**XXXVI. OTO KODLAYICI TABANLI DERİN ÖĞRENME MAKİNALARI İLE SPAM TESPİTİ**

KAYNAR O., GÖRMEZ Y., IŞIK Y. E.

3. rd International Management Information System Conferance, İzmir, Turkey, 6 - 08 October 2016, pp.44-54

**XXXVII. Doğrusal Olmayan DIŞLAYAN YA DA İşleminin Bir Dinamik Programlama Benzeri Yaklaşım İle Onlu Sistemde Çözümü**

GÖRMEZ Y., BUCAK İ. Ö.

Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, 10 - 12 September 2015

## Supported Projects

Görmez Y., Ağkuş M., Elyakan M. L., Şimşek Ş., Arslanhan G., Akar Ş., TUBITAK Project, Nesnelerin İnterneti Cihazları ve Uygulamaları için Ölçeklenebilir Platform, 2020 - 2021

Işık Y. E., Görmez Y., Demirkoparan F., Kaynar O., Project Supported by Higher Education Institutions, OTOMATİK DOKÜMAN ÖZETLEME, 2017 - 2018

## Metrics

Publication: 67

Citation (WoS): 18

Citation (Scopus): 73

H-Index (WoS): 3

H-Index (Scopus): 4

## Non Academic Experience

Business Establishment Private, DETAY TEKNOLOJİ YAZILIM DANIŞMANLIK VE BİLGİSAYAR HİZMETLERİ TİCARET SANAYİ ANONİM ŞİRKETİ, Araştırma Geliştirme