

## Asst. Prof. NUH AZGINOĞLU

### Personal Information

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### International Researcher IDs

ScholarID: gQd8Zp0AAAAJ

ORCID: 0000-0002-4074-7366

Publons / Web Of Science ResearcherID: G-7335-2019

ScopusID: 55364407100

Yoksis Researcher ID: 33435

### Education Information

Doctorate, Erciyes University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2013 - 2019

Postgraduate, Erciyes University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2010 - 2013

Undergraduate, Erciyes University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2006 - 2010

### Certificates, Courses and Trainings

Vocational Training, 2237-A Lisansüstü Akademik Danışmanlık Eğitimi, Atatürk Üniversitesi Öğretme ve Öğrenmeyi Geliştirme Uygulama ve Araştırma Merkezi, 2021

Project Management, Mühendislik Alanında Tübitak 1001 Ar-Ge Projesi Hazırlama Eğitimi, Afyon Kocatepe Üniversitesi Teknoloji Transfer Ofisi, 2021

### Dissertations

Doctorate, Protein Yapı Tahmini İçin Yapısal Profil Matrislerinin Geliştirilmesi , Erciyes University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2019

Postgraduate, Periyodik mekân-zamansal eş-oluşum örüntü madenciliği, Erciyes University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2013

### Research Areas

bioinformatics, Theoretical Computer Science, Artificial Intelligence, Computer Learning and Pattern Recognition, Software

### Academic Titles / Tasks

Assistant Professor, Kayseri University, Mühendislik, Mimarlık ve Tasarım Fakültesi, Bilgisayar Mühendisliği Bölümü, 2021 - Continues

Assistant Professor, Nevşehir Hacı Bektaş Veli University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, 2020 - 2021

Research Assistant, Nevşehir Hacı Bektaş Veli University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, 2011 - 2020

## Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Kayseri University, Mühendislik, Mimarlık ve Tasarım Fakültesi, 2023 - Continues

Yükseköğretim Kurulu Üyesi, Kayseri University, Tomarza Mustafa Akıncıoğlu Meslek Yüksekokulu, -, 2022 - Continues

Member of the Senate, Kayseri University, Mühendislik, Mimarlık ve Tasarım Fakültesi, 2022 - Continues

Vice Dean, Kayseri University, Mühendislik, Mimarlık ve Tasarım Fakültesi, 2021 - Continues

Head of Department, Kayseri University, Mühendislik, Mimarlık ve Tasarım Fakültesi, Bilgisayar Mühendisliği Bölümü, 2021 - Continues

Deputy Head of Department, Kayseri University, Mühendislik, Mimarlık ve Tasarım Fakültesi, Bilgisayar Mühendisliği Bölümü, 2021 - Continues

Deputy Head of Department, Nevşehir Hacı Bektaş Veli University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, 2020 - 2021

Head of Department, Nevşehir Hacı Bektaş Veli University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, 2020 - 2021

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Nevşehir Hacı Bektaş Veli University, Siver Security Application And Research Center, 2019 - 2021

## Courses

### Postgraduate

ANABİLİM DALI SEMİNERİ, Postgraduate, 2024 - 2025

ADLI BİLİŞİM, Postgraduate, 2024 - 2025

Evrimsel Optimizasyon Algoritmaları, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Bilimsel Araştırma Teknikleri ve Etik, Postgraduate, 2024 - 2025

Veri Yapıları, Postgraduate, 2024 - 2025

Special Topics in Computational Sciences and Engineering, Postgraduate, 2022 - 2023

Digital Image Processing, Postgraduate, 2021 - 2022

### Undergraduate

Database Management Systems, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023

Bilgisayar Programlama-I, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Introduction to Computer Engineering, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Data Structures and Algorithms, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023

BİLGİSAYAR TASARIM VE UYGULAMA, Undergraduate, 2024 - 2025

Bilgisayar Programlama-II, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023

Entrepreneurship, Undergraduate, 2019 - 2020

Microprocessors, Undergraduate, 2020 - 2021

Introduction to Computer Engineering, Undergraduate, 2020 - 2021

Entrepreneurship, Undergraduate, 2020 - 2021

### Associate Degree

Bilgi Güvenliği, Associate Degree, 2024 - 2025, 2023 - 2024

Veri Yapıları ve Programlama, Associate Degree, 2021 - 2022

Veri Yapıları ve Programlama, Associate Degree, 2021 - 2022

Internet Programming-I, Associate Degree, 2021 - 2022

## Supervised Theses

Azgınoğlu N., Çelik M., Derin öğrenme ve açıklanabilir yapay zekâ teknikleri ile beyin tümörlerinin tespiti ve analizi, Postgraduate, M.ÖZLÜ(Student), 2024

Azgınoğlu N., Zaman serisi analizi ile su talep tahmini, Postgraduate, M.HAKAN(Student), 2024

Azgınoğlu N., Taşyürek M., Kentsel dönüşüm uygulamalarında daire belirleme işlemlerinin mekânsal veri madenciliği yöntemleri ile belirlenmesi, Postgraduate, E.TURGUT(Student), 2024

Azgınoğlu N., Taşyürek M., İmar uygulamalarında veri madenciliği tabanlı yöntemlerin kullanılması, Postgraduate, İ.KARAASLAN(Student), 2024

## Jury Memberships

Doctorate, Doctorate, Abdullah Gül Üniversitesi, October, 2022

Post Graduate, Post Graduate, Kayseri Üniversitesi, September, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Nevşehir Hacı Bektaş Veli Üniversitesi, January, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kayseri Üniversitesi, January, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kayseri Üniversitesi, January, 2022

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2021

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2021

Post Graduate, Post Graduate, Erciyes Üniversitesi, October, 2021

Doctorate, Doctorate, Erciyes Üniversitesi, July, 2021

Doctorate, Doctorate, Erciyes Üniversitesi, June, 2021

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2021

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2021

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2021

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, May, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Nevşehir Hacı Bektaş Veli Üniversitesi, January, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Nevşehir Hacı Bektaş Veli Üniversitesi, January, 2021

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, October, 2020

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

- I. **In-Domain Transfer Learning Strategy for Tumor Detection on Brain MRI**  
Terzi D. S., Azgınoğlu N.  
DIAGNOSTICS, vol.13, no.12, 2023 (SCI-Expanded)
- II. **A comprehensive survey of deep learning research on medical image analysis with focus on transfer learning**  
Atasever S., Azgınoğlu N., Sinanç Terzi D., Terzi R.  
CLINICAL IMAGING, vol.94, pp.18-41, 2023 (SCI-Expanded)
- III. **Investigation of S1046 profile bladed vertical axis wind turbine and artificial intelligence-based performance evaluation**  
Osmanlı S., Akansu S. O., Azgınoğlu N., Akansu Y. E., Develi İ.

Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.45, no.3, pp.8771-8790, 2023 (SCI-Expanded)

- IV. **False positive repression: Data centric pipeline for object detection in brain MRI**  
Terzi R., AZGINOĞLU N., Terzi D. S.  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.20, 2022 (SCI-Expanded)
- V. **Structure estimation of vertical axis wind turbine using artificial neural network**  
Tekşin S., Azginoğlu N., Akansu S. O.  
AEJ - ALEXANDRIA ENGINEERING JOURNAL, vol.61, no.1, pp.305-314, 2022 (SCI-Expanded)
- VI. **3-State Protein Secondary Structure Prediction based on SCOPE Classes**  
Atasever S., Azginoğlu N., Erbay H., Aydın Z.  
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.64, 2021 (SCI-Expanded)
- VII. **Structural profile matrices for predicting structural properties of proteins**  
Azginoglu N., Aydın Z., Çelik M.  
JOURNAL OF BIOINFORMATICS AND COMPUTATIONAL BIOLOGY, vol.18, no.4, 2020 (SCI-Expanded)
- VIII. **Developing structural profile matrices for protein secondary structure and solvent accessibility prediction**  
Aydın Z., Azginoglu N., Bilgin H. I., Çelik M.  
BIOINFORMATICS, vol.35, no.20, pp.4004-4010, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **İmar uygulamalarında dağıtımın veri madenciliği yöntemi kullanılarak yapılması**  
Karaaslan İ., Azginoğlu N., Taşyürek M.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.1, no.1, pp.1, 2022 (Peer-Reviewed Journal)
- II. **Detection of Buildings in the Urban Transformation Process with Spatial Data Mining Methods**  
Turgut E., Taşyürek M., Azginoğlu N.  
DÜMF Mühendislik Dergisi, vol.13, no.2, pp.161-167, 2022 (Peer-Reviewed Journal)
- III. **Curriculum Learning for Age Estimation from Brain MRI**  
Aşan A., Terzi R., Azginoğlu N.  
Applied Computer Systems, vol.26, no.2, pp.116-121, 2021 (ESCI)
- IV. **Coğrafik Bilgi Sistemleri İçin Mekânsal Etkileşim Analizi ile Adresi Bilgi Sistemi**  
Taşyürek M., Azginoğlu N.  
Avrupa Bilim ve Teknoloji Dergisi, vol.32, pp.451-456, 2021 (Peer-Reviewed Journal)
- V. **Effect of Benchmark Datasets on Protein Structure Prediction as a Concept**  
Azginoğlu N.  
European Journal of Science and Technology, no.29, pp.117-121, 2021 (Peer-Reviewed Journal)

## Books

- I. **SAĞLIKTA ARAŞTIRMA YÖNTEMLERİ VE DİJİTAL DÖNÜŞÜM TABANLI VERİ ANALİZİ**  
Azginoğlu N., Taşyürek M.  
in: Mühendislik Alanında Uluslararası Araştırmalar, Alper BİDECİ, Editor, PLATANUS PUBLISHING, Ankara, pp.52-74, 2023
- II. **Current Topics in Computer Sciences**  
Azginoğlu N. (Editor)  
Nobel Yayınevi, Ankara, 2022
- III. **C ile Programlama Başlangıçtan İleri Seviyeye**  
Arslan R. S., Azginoğlu N., Taşyürek M.  
Nobel Yayın Dağıtım, Ankara, 2022

#### IV. **Bioinformatics**

Azginoglu N.

in: Current Topics in Computer Science, Dr. Nuh Azginoglu, Editor, Nobel Yayınevi, Ankara, pp.121-146, 2022

#### V. **Sağlıkta Yapay Zekâ Kullanımı**

Atasever S., Azginoglu N., Terzi R.

in: YAPAY ZEKÂ VE BÜYÜK VERİ ÇALIŞMALARI, SİBER GÜVENLİK VE MAHREMİYET, Şeref Sağiroğlu, Mustafa Umud Demirezen, Editor, Nobel Yayınevi, Ankara, pp.177-199, 2021

#### VI. **Biyoinformatikte Yapay Zekâ Kullanımı**

Azginoglu N., Atasever S.

in: YAPAY ZEKÂ VE BÜYÜK VERİ ÇALIŞMALARI, SİBER GÜVENLİK VE MAHREMİYET, Şeref Sağiroğlu, Mustafa Umud Demirezen, Editor, Nobel Yayınevi, Ankara, pp.201-228, 2021

### **Papers Published in Refereed Scientific Meetings**

#### I. **Water Consumption Estimation from Historical Data and Correlation with Population**

Azginoglu N., Kip M. H.

VI. Uluslararası Türk Dünyası Fen Bilimleri ve Mühendislik Kongresi, Baku, Azerbaijan, 19 - 21 December 2024, pp.6121-6128

#### II. **Zaman Serisi ile İçme Suyu Talep Tahmini: Kayseri Örneği**

Kip M. H., Azginoglu N.

5th International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 25 - 26 August 2024, pp.846-853

#### III. **A Preliminary Study: CNN-Based Model and Dataset Benchmarking For Brain Tumor Detection**

Özlu M., Azginoglu N., Terzi R., Çelik M.

Uluslararası Orta Anadolu Kongresi (UORAS), Yozgat, Turkey, 16 - 18 May 2024, pp.60-61

#### IV. **A Novel Pipeline on Medical Object Detection for Bias Reduction: Preliminary Study for Brain MRI**

Terzi R., Azginoglu N.

International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Kocaeli, Turkey, 25 - 27 August 2021, pp.1-6

#### V. **Adres Bilgi Sistemi Mimari Tasarımının Mekânsal Etkileşim Yöntemi İle Oluşturulması: Kayseri Örneği**

Taşyürek M., Azginoglu N.

International Congress on Art and Design Research and Exhibition, Niğde, Turkey, 21 - 22 June 2021, pp.103-104

#### VI. **An Open Source Mail Server Migration Experience: iRedMail**

Azginoglu N.

The Fifth International Conference on Smart City Applications (SCA20), Karabük, Turkey, 7 - 09 October 2020, vol.44, pp.95-98

#### VII. **Analysis of Network Logs In Terms of Demographic and Cyber Antropology**

Azginoglu N., Atasever S., İlhan K.

2nd International Congress on Sports, Anthropology, Nutrition, Anatomy and Radiology (SANAR2020), Nevşehir, Turkey, 20 - 23 July 2020, pp.416-422

#### VIII. **Hidrolojik ve İklim Veri Serilerinin Periyodiklik Analizi**

Çelik M., Azginoglu N., Dadaşer Çelik F.

2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 19 - 21 October 2018

#### IX. **Ceph-based Storage Server Application**

Azginoglu N., Eren M. A., Çelik M., Aydın Z.

6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Turkey, 22 - 25 March 2018, pp.408-411

#### X. **Open Source Slurm Computer Cluster System Design and a Sample Application**

Azginoglu N., Atasever M. U., Aydın Z., Çelik M., Erbay H.

2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 08 October 2017, pp.403-406

**XI. Nevşehir Hacı Bektaş Veli Üniversitesi Bilgi Portalı Android Uygulaması**

Eren A., Azginoğlu N.

Akademik Bilişim 2014 (AB2014), Mersin, Turkey, 5 - 07 February 2014

**XII. Mining periodic spatio-temporal co-occurrence patterns: A summary of results**

Çelik M., Azginoğlu N., Terzi R.

2012 International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2012), Trabzon, Turkey, 2 - 04 July 2012, pp.1-5

## Supported Projects

Azginoğlu N., TUBITAK Project, Görüntü İşleme İle Tatlı Su Balıklarında Otolitten Tür Tayini Yapılması, 2023 - 2024  
AZGINOĞLU N., Project Supported by Higher Education Institutions, Protein ikincil yapı tahmini için veri madenciliği tabanlı yöntemlerin geliştirilmesi, 2021 - 2022

Aydın Z., TUBITAK Project, Zenginleştirilmiş Öznitelikler Ve Makine Öğrenmesi Yöntemleriyle Protein Yerel Yapı Tahmini, 2014 - 2017

Çelik M., TUBITAK Project, Diyabet Hastalarına Ait Verilerin Veri Madenciliği Yöntemleri İle Analiz Edilmesi, 2012 - 2015

Çelik M., TUBITAK Project, Gerçek-Zamanlı Mekan-Zamansal Eş-Oluşum Örüntülerinin Modellenmesi, 2010 - 2013

## Peer Reviews in Scientific Publications

OCEAN ENGINEERING, Journal Indexed in SCI-E, November 2022

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, September 2022

The Journal of Supercomputing, Journal Indexed in SCI-E, September 2022

Türk Kütüphaneciliği, Journal Indexed in ESCI, September 2022

The Journal of Supercomputing, Journal Indexed in SCI-E, May 2022

COMPUTERS IN BIOLOGY AND MEDICINE, Journal Indexed in SCI-E, March 2022

COMPUTATIONAL BIOLOGY AND CHEMISTRY, Journal Indexed in SCI-E, March 2022

COMPUTERS IN BIOLOGY AND MEDICINE, Journal Indexed in SCI-E, February 2022

COMPUTERS IN BIOLOGY AND MEDICINE, Journal Indexed in SCI-E, February 2022

Türk Kütüphaneciliği, Journal Indexed in ESCI, January 2022

COMPUTERS IN BIOLOGY AND MEDICINE, SCI Journal, December 2021

Journal of artificial intelligence and data science, Other Indexed Journal, December 2021

KAFKAS ÜNİVERSİTESİ İKTİSADİ ve İDARİ BİLİMLER FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, September 2021

COMPUTERS IN BIOLOGY AND MEDICINE, Journal Indexed in SCI-E, September 2021

ENERGY, ENVIRONMENT AND STORAGE JOURNAL, Other Indexed Journal, September 2021

BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, National Scientific Refreed Journal, September 2021

ERCİYES ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, August 2021

BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, National Scientific Refreed Journal, June 2021

BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, National Scientific Refreed Journal, March 2021

İstanbul Ticaret Üniversitesi Sosyal Bilimler Dergisi, National Scientific Refreed Journal, March 2021

ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, November 2020

Balkan Journal of Electrical and Computer Engineering, National Scientific Refreed Journal, November 2020

Avrupa Bilim ve Teknoloji Dergisi, National Scientific Refreed Journal, November 2020

Journal Of The Faculty Of Engineering And Architecture Of Gazi University, Journal Indexed in SCI-E, September 2020

Balkan Journal of Electrical and Computer Engineering, National Scientific Refreed Journal, May 2020

Balkan Journal of Electrical and Computer Engineering, National Scientific Refreed Journal, October 2019  
İşlemci Tasarımı Çalıştayı 2019, Conference Paper (Full Text), September 2019

### **Scientific Project Refereeing**

Technopark, October 2022  
Technopark, May 2022  
Technopark, May 2022  
Technopark, May 2022  
Technopark, May 2022  
Technopark, May 2022  
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Technopark, May 2022  
Technopark, May 2022

### **Tasks In Event Organizations**

Azgiñođlu N., Babacan N., Türkarıslan E., II. International Congress on Art and Design Research , Scientific Congress, Kayseri, Turkey, Haziran 2022

### **Metrics**

Publication: 113  
Citation (WoS): 18  
Citation (Scopus): 27  
H-Index (WoS): 3  
H-Index (Scopus): 4

### **Congress and Symposium Activities**

5th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT 2021) , Attendee, Bolu, Turkey, 2021  
International Conference on INnovations in Intelligent SysTEms and Applications (INISTA) 2021, Attendee, Kocaeli, Turkey, 2021  
2 nd International Congress on Sports, Anthropology, Nutrition, Anatomy and Radiology (SANAR2020), Attendee, Nevşehir, Turkey, 2020

### **Scholarships**

2211-A Genel Yurt İçi Doktora Burs Programı, TÜBİTAK, 2013 - 2017

### **Representation and Promotion Activities**

Institutional Representation, Erciyas Üniversitesi, Turkey, Kayseri, 2021 - 2021

## **Non Academic Experience**

Erciyas Üniversitesi, Proje Asistanı