Lect. PhD ALİ OSMAN GÖKCAN

Personal Information

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International Researcher IDs
ScholarID: Aro32ucAAAAJ
ORCID: 0000-0001-8477-1520
Publons / Web Of Science ResearcherID: NRY-0706-2025
ScopusID: 57202306847
Yoksis Researcher ID: 51910

Education

Doctorate, Firat University, Fen Bilimleri Enstitüsü, Yenilenebilir Enerji Sistemleri Mühendisliği, Turkey 2019 - 2025
Postgraduate, Firat University, Fen Bilimleri Enstitüsü, Yenilenebilir Enerji Sistemleri Mühendisliği, Turkey 2013 - 2016
Undergraduate, Kocaeli University, Teknik Eğitim Fakültesi, Turkey 2003 - 2008

Foreign Languages

English

Dissertations

Doctorate, En iyileştirilmiş çekirdek uç öğrenme makineleri kullanılarak trafik sinyalizasyon süresinin kontrolü, Firat University, 2025
Postgraduate, A virtual laboratory for education on reactive power compensation, Firat University, Yenilenebilir Enerji Sistemleri Mühendisliği, 2015

Research Areas

Avesis Research Areas: Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, algorithms, Renewable energy, Electric Power Transmission, Distribution and Protection
WoS Research Areas: Computer Science Theory & Methods, Engineering Electrical & Electronic, Energy & Fuels, Computer Science Artificial Intelligence, Computer Science Interdisciplinary Applications
Scopus Research Areas: Theoretical Computer Science, Renewable Energy, Sustainability and the Environment, General Energy, Software, Computer Vision and Pattern Recognition, Computer Science Applications, Computer Graphics and Computer-Aided Design, Artificial Intelligence, General Computer Science

Academic Positions

Lecturer PhD, Manisa Celal Bayar University, Turgutlu Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2016 - Present
Lecturer, Sirnak University, Cizre Meslek Yüksekokulu, Bilgisayar Teknolojileri, 2012 - 2016

Courses

Undergraduate

Computer Science and Programming, Undergraduate, 2025 - 2026

Temel Bilgisayar Bilimleri, Undergraduate, 2023 - 2024

Associate Degree

Server Operating System, Associate Degree, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Server Operating System, Associate Degree, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Server Operating System, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016

Graphic and Animation-I, Associate Degree, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Graphic and Animation-I, Associate Degree, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Graphic and Animation-I, Associate Degree, 2017 - 2018, 2016 - 2017

Database-I, Associate Degree, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Database-I, Associate Degree, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Network Fundamentals, Associate Degree, 2026 - 2027, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Network Fundamentals, Associate Degree, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Network Fundamentals, Associate Degree, 2016 - 2017

Graphic and Animation-II, Associate Degree, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Graphic and Animation-II, Associate Degree, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Graphic and Animation-II, Associate Degree, 2017 - 2018, 2016 - 2017, 2015 - 2016

Database-II, Associate Degree, 2025 - 2026, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Database-II, Associate Degree, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

İşletmede Mesleki Eğitim, Associate Degree, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Yazılım Kurulum ve Yönetimi (UZAKTAN EĞİTİM), Associate Degree, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Web Tasarımının Temelleri, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Web Tasarımının Temelleri, Associate Degree, 2015-2016, 2013-2014

Ağ Temelleri, Associate Degree, 2015-2016, 2013-2014, 2012-2013

Sunucu İşletim Sistemleri, Associate Degree, 2015-2016, 2014-2015

Veri Yapıları, Associate Degree, 2015-2016

Web Editörü, Associate Degree, 2015-2016, 2014-2015

Çocukta Bilim ve Teknoloji, Associate Degree, 2015-2016

Grafik ve Animasyon-I, Associate Degree, 2015-2016, 2014-2015, 2013-2014, 2012-2013

Görsel Programlama-III, Associate Degree, 2014-2015

Meslek Etiği, Associate Degree, 2014-2015, 2013-2014

Veritabanı ve Yönetimi, Associate Degree, 2014-2015, 2012-2013

Kalite Güvencesi ve Standartlar, Associate Degree, 2014-2015, 2012-2013

Grafik ve Animasyon-II, Associate Degree, 2014-2015, 2013-2014, 2012-2013

Görsel Programlama-II, Associate Degree, 2014-2015

Ofis Yazılımları, Associate Degree, 2014-2015, 2013-2014
Açık Kaynak İşletim Sistemleri, Associate Degree, 2014-2015, 2012-2013
Araştırma Yöntem ve Teknikleri, Associate Degree, 2013-2014
Veri tabanı-II, Associate Degree, 2012-2013
İletişim, Associate Degree, 2012-2013

Articles

I. **A hybrid monte Carlo-machine learning framework for neutron dose attenuation modeling in layered iron-concrete shields of a 1000 MeV proton accelerator**
Sarıyer D., Gökcan A. O.
ANNALS OF NUCLEAR ENERGY, vol.238, no.2026, pp.1-17, 2026 (SCI-Expanded, Scopus)

II. **High-energy neutron shielding analysis using curve fitting and machine learning: a Monte Carlo-based study in concrete and Ferro-Boron configurations**
GÖKCAN A. O., SARIYER D.
Annals of Nuclear Energy, vol.232, 2026 (SCI-Expanded, Scopus)

III. **Adaptive traffic signal control using deep learning and metaheuristic-optimized Kernel Extreme Learning Machine**
Gökcan A. O., Coteli R., Avci D.
TRANSPORTATION LETTERS, vol.18, no.5, pp.1-20, 2026 (SCI-Expanded, SSCI, Scopus)

IV. **Deep Learning-based Classification of Corrosion Categories from SEM Images of Low-Alloyed Medium Carbon Steel**
GÖKCAN A. O., YAZICI A., ZEYBEK M. S.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.79, no.6, 2026 (SCI-Expanded, Scopus)

V. **The Shortest Road Algorithm Approach In Determining The Route Of Solid Waste Collection Vehicles: The Case Of Manisa 75. Yıl Neighborhood**
GÖKCAN A. O., ÇÖTELİ R., TANYILDIZI E.
Turkish Journal of Science and Technology, vol.15, no.1, pp.29-35, 2020 (TRDizin)

VI. **Virtual laboratory for power electronic based reactive power compensators**
Coteli R., GÖKCAN A. O.
Tehnicki Vjesnik, vol.25, pp.86-93, 2018 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Detection And Classification Of Vehicles By Using Traffic Video Based On YOLOV8**
GÖKCAN A. O., ÇÖTELİ R., AVCI D.
UMTEB – XIV International Scientific Research Congress September 14-15, 2023 / Naples, Italy, Napoli, Italy, 14 - 15 September 2023, pp.530-538, (Full Text)

II. **Eğitim Amaçlı Matlab GUI Tabanlı Güç Faktörü Düzeltme Uygulaması**
GÖKCAN A. O.
İlk bildiriler konferansı, Ankara, Turkey, 12 - 13 June 2015, (Full Text)

III. **Dc Dc Dönüştürücülerde Optimum Bastırma Hücresi Tasarımı Kriterleri**
Şahin Y., DONUK H., GÖKCAN A. O.
6. Enerji Verimliliği, Kalitesi Sempozyumu ve Sergisi, Sakarya, Turkey, 4 - 06 June 2015, (Full Text)

Metrics

Publication: 9

Citation (WoS): 5
Citation (Scopus): 5
H-Index (WoS): 1
H-Index (Scopus): 1

Non Academic Experience

Grandmedical Hospital, Bilgi İşlem Müdür Yardımcısı
Ege Haber Gazetesi, Bilgi İşlem Sorumlusu