

Dr. Öğretim Üyesi

FEYYAZ ALPSALAZ



İş Telefonu: 0 (358) 211 50 05 / Dahili 4769

E-posta: feyyaz.alpsalaz@amasya.edu.tr

Web: https://akademik.yok.gov.tr/AkademikArama/AkademisyenGorevOgrenimBilgileri?islem=direct&sira=_D2bDdARDMCOgjHVGzFVZw&authorId=66D533EA2CE4217B

Kurum: İnsan Ve Toplum Bilimleri Fakültesi / Yapay Zeka Ve Makine Öğrenmesi Bölümü / Yapay Zeka Ve Makine Öğrenmesi Anabilim Dalı

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-7695-6426

ScopusID: 59221704100

Web of Science: LDG-5760-2024

Google Scholar: EP2ybTEAAAAJ

YÖKSİS Araştırmacı ID: 261210

Eğitim Bilgileri

I. İNÖNÜ ÜNİVERSİTESİ · Doktora · Yurt İçi · 2020–2024 · FEN BİLİMLERİ ENSTİTÜSÜ · ELEKTRİK TESİSLERİ (DR) · Transformör iç arklarının geçici rejim sinyal işleme ve makine öğrenme yöntemleriyle erken tespiti (2020–2024)

II. SİVAS CUMHURİYET ÜNİVERSİTESİ · Yüksek Lisans · Yurt İçi · 2014–2018 · FEN BİLİMLERİ ENSTİTÜSÜ · ENERJİ BİLİMİ VE TEKNOLOJİSİ (YL) (TEZLİ) · Hibrit ve elektrikli araçlarda süperkapasitör ve lityum iyon bataryaların kontrol edilerek güç sistemlerinde kullanılması (2014–2018)

III. CUMHURİYET ÜNİVERSİTESİ · Lisans · Yurt İçi · 2010–2014 · MÜHENDİSLİK FAKÜLTESİ · ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ (2010–2014)

Araştırma Alanları

Mühendislik Temel Alanı · Elektrik-Elektronik ve Haberleşme Mühendisliği · Makine Öğrenmesi ; İşaret İşleme ; Elektrik Tesisleri

Makaleler

I. Accurate Short-Horizon Multi-Target Prediction of PMSM Operational Parameters via Residual Dilated 1D Convolutional Neural Networks (2026)

ASLAN EMRAH,ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,UZEL HASAN

II. A hybrid machine learning approach for reliably predicting surface roughness in CNC turning operations (2026)

YURTKURAN HAKAN,DEMİRTAŞ GÜVEN,ALPSALAZ FEYYAZ,UZEL HASAN

III. Optimized ANN–RF hybrid model with optuna for fault detection and classification in power transmission systems (2026)

UZEL HASAN,ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,ASLAN EMRAH

IV. Acoustic-based fault diagnosis of electric motors using Mel spectrograms and convolutional neural networks (2026)

ÖZÜPAK YILDIRIM,ASLAN EMRAH,UZEL HASAN,ALPSALAZ FEYYAZ,Zaitsev Ievgen

V. Explainable DL Based Classification for Power Quality Disturbances in Renewable-Energy-Integrated Distribution Networks (2026)

ALTUN BEKİR EMRE,ALPSALAZ FEYYAZ,UZEL HASAN,TÜRKAY YAVUZ

VI. An interpretable multi-level stacking framework for photovoltaic power prediction and fault analysis (2026)

ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,ASLAN EMRAH,UZEL HASAN

VII. Non-Destructive Classification of Concrete Moisture Levels Using Piezoelectric Contact Microphones and Impact-Based Acoustic Signals with a Hybrid Stacking Framework: A Controlled Experimental and Theoretical Study (2026)

TÜRKAY YAVUZ,ALPSALAZ FEYYAZ,Zaitsev Ievgen,Kuchansky Vladislav

VIII. A Machine Learning Approach to Performance–Emission Analysis in Dual-Fuel Internal Combustion Engines (2026)

DEMİRTAŞ GÜVEN,YURTKURAN HAKAN,ALPSALAZ FEYYAZ,UZEL HASAN

IX. A reproducible evaluation framework for benchmarking machine learning and hybrid ensemble models in power system anomaly detection (2026)

ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,ASLAN EMRAH,UZEL HASAN,Zaitsev Ievgen,Lemeshko Andriy

X. Explainable machine learning framework for dynamic line rating forecasting with adversarial robustness evaluation (2026)

ALPSALAZ FEYYAZ,UZEL HASAN,ÖZÜPAK YILDIRIM,ASLAN EMRAH,Bereznynchenko Viktoria

XI. Optimizing Electricity Demand Forecasting Using ARIMA, SARIMA, and GRU with Weather and Calendar Variables (2026)

ASLAN EMRAH,ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,UZEL HASAN

XII. Hybrid Machine Learning Approach for Enhanced Fault Detection and Power Estimation in Photovoltaic Systems (2026)

ALPSALAZ FEYYAZ,ÖZÜPAK YILDIRIM,ASLAN EMRAH,UZEL HASAN

XIII. High Accuracy Dissolved Oxygen Prediction in Water Quality Analysis with A-XG-Q Hybrid Model (2026)

ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,ASLAN EMRAH,UZEL HASAN

XIV. Explainability-Aligned Reliability-Weighted Fuzzy Ensemble for Automated Cervical Cancer Classification (2026)

Demirtaş Alpsalaz Süheyla,ÖZÜPAK YILDIRIM,ASLAN EMRAH,ALPSALAZ FEYYAZ,UZEL HASAN,Zaitsev Levgen

XV. Comparing Explainable Artificial Intelligence and Deep Learning Models for MRI-Based Brain Tumor Diagnosis (2026)

UZEL HASAN,ALPSALAZ FEYYAZ,ÖZÜPAK YILDIRIM,ASLAN EMRAH

XVI. Physics-guided attention neural network for interpretable and robust photovoltaic fault classification with strict external validation (2026)

ALPSALAZ FEYYAZ,ÖZÜPAK YILDIRIM,ASLAN EMRAH,UZEL HASAN,Bereznynchenko Viktoria

XVII. Air Quality Forecasting Using Machine Learning: Comparative Analysis and Ensemble Strategies for Enhanced Prediction (2025)

ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,ASLAN EMRAH

XVIII. Supercapacitor and lithium-ion battery management in a series hybrid electric vehicle (2025)

ALPSALAZ FEYYAZ,TÜRKAY YAVUZ

XIX. Detection of imbalance faults in industrial machines by means of frequency-based feature extraction using machine learning and deep learning approaches (2025)

ALPSALAZ FEYYAZ

XX. A Hybrid Machine Learning Approach for Predicting Power Transformer Failures Using Internet of Things-Based Monitoring and Explainable Artificial Intelligence (2025)

ASLAN EMRAH,ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,ELBARBARY ZAKARIA MOHAMED SALEM

XXI. Hybrid deep learning model for maize leaf disease classification with explainable AI (2025)

ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,ASLAN EMRAH,UZEL HASAN

XXII. Boiler efficiency and performance optimization in district heating and cooling systems with machine learning models (2025)

ASLAN EMRAH,ALPSALAZ FEYYAZ,ÖZÜPAK YILDIRIM

XXIII. Deep Learning-Based Lung Cancer Diagnosis: Data Balancing, Model Optimisation and Performance Analysis (2025)

ALPSALAZ FEYYAZ

XXIV. Classification of maize leaf diseases with deep learning: Performance evaluation of the proposed model and use of explicable artificial intelligence (2025)

ALPSALAZ FEYYAZ,ÖZÜPAK YILDIRIM,ASLAN EMRAH,UZEL HASAN

XXV. Fault Detection in Power Transmission Lines: Comparison of Chirp-Z Algorithm and Machine Learning Based Prediction Models (2025)

ALPSALAZ FEYYAZ

XXVI. A COMPREHENSIVE BENCHMARK OF LINEAR AND ENSEMBLE MACHINE LEARNING MODELS FOR GLOBAL CO₂ EMISSION FORECASTING (2025)

UZEL HASAN,ALPSALAZ FEYYAZ,ASLAN EMRAH,ÖZÜPAK YILDIRIM

XXVII. Alzheimer's Classification with a MaxViT-Based Deep Learning Model Using Magnetic Resonance Imaging (2025)

DEMİRİTAŞ ALPSALAZ SÜHEYLA,ASLAN EMRAH,ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,UZEL HASAN

XXVIII. Hybrid deep learning with attention fusion for enhanced colon cancer detection (2025)

DEMİRİTAŞ ALPSALAZ SÜHEYLA,ASLAN EMRAH,ÖZÜPAK YILDIRIM,ALPSALAZ FEYYAZ,UZEL HASAN,Bereznynchenko Viktoria

XXIX. Detection of Arc Faults in Transformer Windings via Transient Signal Analysis (2024)

ALPSALAZ FEYYAZ,MAMİŞ MEHMET SALİH

XXX. Using Ansys 3D Electromagnetic Analysis for Investigation the Effect of Harmonics on Power Transformers (2023)

ALPSALAZ FEYYAZ,MAMİŞ MEHMET SALİH

Bildiriler

- I. SENKRON MAKİNEDE ALAN AKIMININ POLYNOMİAL REGRESYON İLE TAHMİNİ (2026)**
UZEL HASAN,ALPSALAZ FEYYAZ,ALTUN BEKİR EMRE
- II. RESNET-RS-50 KULLANILARAK GÜNEŞ FOTOVOLTAİK PANELLERİNDE DERİN ÖĞRENME TABANLI TOZ TESPİTİ (2026)**
UZEL HASAN,ALTUN BEKİR EMRE,ALPSALAZ FEYYAZ
- III. MULTI-OBJECTIVE OPTIMAL POWER FLOW IN IEEE 33-BUS DISTRIBUTION SYSTEM USING MODIFIED SUBTRACTION-AVERAGE BASED OPTIMIZER WITH HIERARCHICAL OPPOSITION LEARNING (MSHO) (2026)**
ALTUN BEKİR EMRE,ALPSALAZ FEYYAZ,UZEL HASAN
- IV. Prediction Of Superconducting Critical Temperature Using Machine Learning Methods (2026)**
UZEL HASAN,ALPSALAZ FEYYAZ,ALTUN BEKİR EMRE
- V. OPTIMAL POWER FLOW ANALYSIS OF 22-BUS 380 KV TURKISH POWER SYSTEM USING PSO, WOA, SSA, AND MFO ALGORITHMS (2026)**
ALTUN BEKİR EMRE,UZEL HASAN,ALPSALAZ FEYYAZ
- VI. MULTI-OBJECTIVE OPTIMAL POWER FLOW IN IEEE 33-BUS DISTRIBUTION SYSTEM USING MODIFIED SUBTRACTION-AVERAGE BASED OPTIMIZER WITH HIERARCHICAL OPPOSITION LEARNING (MSHO) (2026)**
ALTUN BEKİR EMRE,ALPSALAZ FEYYAZ,UZEL HASAN
- VII. Weather Classification Based On Meteorological Parameters: A Comparative Study Of Ensemble Learning (2026)**
ALPSALAZ FEYYAZ,UZEL HASAN,ALTUN BEKİR EMRE
- VIII. Prediction Of Superconducting Critical Temperature Using Machine Learning Methods (2026)**
UZEL HASAN,ALPSALAZ FEYYAZ,ALTUN BEKİR EMRE
- IX. güneş, Rüzgar ve Hidroelektrik Üzerinden Türkiye'nin Sürdürülebilir Enerji Dönüşümü (2025)**
ÖZÜPAK YILDIRIM,UZEL HASAN,ASLAN EMRAH,ALPSALAZ FEYYAZ
- X. EFFICIENTNET-B7 İLE MEME KANSERİ HİSTOPATOLOJİK GÖRÜNTÜLERİNİN SINIFLANDIRILMASI (2025)**
DEMİRTAŞ ALPSALAZ SÜHEYL,ALPSALAZ FEYYAZ,UZEL HASAN,ASLAN EMRAH,ÖZÜPAK YILDIRIM
- XI. MAKİNE ÖĞRENMESİ YAKLAŞIMLARIYLA POLİKİSTİK OVER SENDROMUNUN TANISAL SINIFLANDIRILMASI (2025)**
DEMİRTAŞ ALPSALAZ SÜHEYL,ALPSALAZ FEYYAZ,UZEL HASAN,ASLAN EMRAH,ÖZÜPAK YILDIRIM
- XII. SENSOR-BASED PREDICTION OF REMAINING USEFUL LIFE (RUL) IN AIRCRAFT ENGINES: A COMPARATIVE EVALUATION OF MACHINE LEARNING MODELS (2025)**
ÖZÜPAK YILDIRIM,ASLAN EMRAH,ALPSALAZ FEYYAZ,UZEL HASAN
- XIII. MAKİNE ÖĞRENMESİ YÖNTEMLERİ İLE UÇAK MENZİLİNİN TAHMİNİ (2025)**
ÖZÜPAK YILDIRIM,ASLAN EMRAH,ALPSALAZ FEYYAZ,UZEL HASAN
- XIV. Güneş, Rüzgar ve Hidroelektrik Üzerinden Türkiye'nin Sürdürülebilir Enerji Dönüşümü (2025)**
ALPSALAZ FEYYAZ,UZEL HASAN,ASLAN EMRAH,ÖZÜPAK YILDIRIM
- XV. RENEWABLE POWER ENERGY PRODUCTION FORECASTING USING A GRU-BASED DEEP LEARNING MODEL (2025)**
ALPSALAZ FEYYAZ,ÖZÜPAK YILDIRIM,ASLAN EMRAH,UZEL HASAN
- XVI. Prediction Of Battery RUL Using LightGBM With Feature Cleaning And Hyperparameter Optimization Via Optuna (2025)**
ALPSALAZ FEYYAZ,ÖZÜPAK YILDIRIM,ASLAN EMRAH,UZEL HASAN
- XVII. PREDICTING AC POWER PRODUCTION IN SOLAR PLANTS USING CATBOOST AND LIGHTGBM: A COMPARATIVE ANALYSIS (2025)**
ÖZÜPAK YILDIRIM,UZEL HASAN,ASLAN EMRAH,ALPSALAZ FEYYAZ
- XVIII. COMPARING CATBOOST AND GRADIENT BOOSTING FOR SOLAR POWER PRODUCTION FORECASTING: A MACHINE LEARNING APPROACH (2025)**
ÖZÜPAK YILDIRIM,ASLAN EMRAH,ALPSALAZ FEYYAZ,UZEL HASAN
- XIX. Power Factor Estimation in Synchronous Machines: A Machine Learning Based Approach with Elastic Net Model (2025)**
ÖZÜPAK YILDIRIM,ASLAN EMRAH,ALPSALAZ FEYYAZ
- XX. Analysis of Fuel Consumption in Electric Vehicles: A Study on Segments, Usage Scenarios, and Energy Efficiency (2025)**
ÖZÜPAK YILDIRIM,ASLAN EMRAH,ALPSALAZ FEYYAZ
- XXI. Analysis of Fuel Consumption and Charging Efficiency in Electric Vehicles (2025)**
ÖZÜPAK YILDIRIM,ASLAN EMRAH,ALPSALAZ FEYYAZ
- XXII. Power Factor and Excitation Current Estimation in Synchronous Machines: A Logistic Regression Based Approach (2025)**
ÖZÜPAK YILDIRIM,ASLAN EMRAH,ALPSALAZ FEYYAZ
- XXIII. GENİŞ BANT GÜÇ SAYAÇLARINDA ÖLÇÜM HATALARININ SINIFLANDIRILMASI İÇİN MAKİNE ÖĞRENMESİ TABANLI BİR YAKLAŞIM (2025)**

XXIV. Electricity Demand Prediction Using SARIMA A Framework for System Failure Management and Grid Stability (2025)

ÖZÜPAK YILDIRIM,UZEL HASAN,ALPSALAZ FEYYAZ,ASLAN EMRAH,Iatsyshyn Andrii

XXV. High-Fidelity Photovoltaic Power Forecasting Using a Skip-Fusion DNN with GELU Activation and AdamW Optimization (2025)

ÖZÜPAK YILDIRIM,ASLAN EMRAH,UZEL HASAN,ALPSALAZ FEYYAZ,Zaitsev Levgen

XXVI. KABLO SAĞLIK DURUMLARININ MAKİNE ÖĞRENMESİ YÖNTEMLERİ İLE ÇOK SINIFLI OLARAK SINIFLANDIRILMASI (2025)

ALPSALAZ FEYYAZ,UZEL HASAN

XXVII. Fault Location Prediction in Power Transmission Lines Using an Artificial Neural Network Model (2024)

ALPSALAZ FEYYAZ,YALÇINÖZ ZEHVA,KAYGUSUZ ASİM,MAMIŞ MEHMET SALİH

XXVIII. Güç Transformatörünün Kısa Devre Durumundaki Elektromanyetik Kuvvetlerin 3D Analizi. (2022)

ALPSALAZ FEYYAZ, MAMIŞ MEHMET SALİH, MAMIŞ Atilla

XXIX. Harmonikli Sistemin Güç Transformatörü Üzerindeki Etkisinin İncelenmesi (2022)

ALPSALAZ FEYYAZ, MAMIŞ MEHMET SALİH, MAMIŞ Atilla

XXX. HİBRİT ELEKTRİKLİ ARAÇLARDA ENERJİ YÖNETİM SİSTEMİNDEKİ FARKLI ŞARJ EŞİK DEĞERLERİNİN ARAÇ PARAMETRELERİNE ETKİLERİ (2019)

ALPSALAZ FEYYAZ, TÜRKAY YAVUZ, ÖZBİLGİN FERDİ

XXXI. Hibrit Elektrikli Araçlarda Enerji Yönetim Sistemindeki Farklı Şarj Eşik Değerlerinin Araç Parametrelerine Etkileri (2019)

ALPSALAZ FEYYAZ, TÜRKAY YAVUZ, ÖZBİLGİN FERDİ

XXXII. SÜPERKAPASİTÖR VE LİTYUM İYON BATARYALARIN KULLANILDIĞI ELEKTRİKLİ ARAÇLARDA ENERJİ YÖNETİM OPTİMİZASYONU (2018)

TÜRKAY YAVUZ,ALPSALAZ FEYYAZ

Kitaplar

I. Data-Driven Modeling and Explainable Machine Learning in Energy and Engine Systems (2026)

ALPSALAZ FEYYAZ,UZEL HASAN,ALTUN BEKİR EMRE

II. Elektrik-Elektronik Mühendisliği Alanında Gelişmeler (2024)

ALPSALAZ FEYYAZ

III. Elektrik-Elektronik Mühendisliği Alanında Gelişmeler (2024)

ALPSALAZ FEYYAZ

IV. Tüm Yönleriyle ENERJİ 4.0 ve YAPAY ZEKA (2024)

ALPSALAZ FEYYAZ,ŞEKER MUSTAFA,MAMIŞ MEHMET SALİH

Projeler

I. Ahşap Kesiminde Enerji-Kalite Optimizasyonu: Çam İçin Kesim Parametrelerinin DOE Tabanlı Modellemesi (2026)

HAKAN YURTKURAN, FEYYAZ ALPSALAZ, AHMET SERTAN ÖZPAK, AHMET CİHAT ARI

II. Transformatör iç arkalarının geçici rejim uç gerilim ve akım sinyalleri ile yapay sinir ağları kullanılarak çevrimiçi erken tespiti (2024)

MÜSLÜM ARKAN, DÜZGÜN AKMAZ, CEMAL KELEŞ, MURAT KÖSEOĞLU, FEYYAZ ALPSALAZ, İSMAİL SARIGÜL, MEHMET SALİH MAMIŞ