Assoc. Prof. YUSUF ÖZÇEVİK

Personal Information

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International Researcher IDs
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ScopusID: 55848336100
Yoksis Researcher ID: 283490

Education

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2015 - 2019
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2013 - 2015
Undergraduate, Istanbul Technical University, Turkey 2009 - 2013

Foreign Languages

English

Dissertations

Doctorate, Energy aware endurance framework for mission critical aerial networks, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2019
Postgraduate, Spatio-temporal data plane design for software defined cellular networks (SDcN), Istanbul Technical University, Fen Bilimleri Enstitüsü, 2015

Research Areas

Avesis Research Areas: Communications and Network Protocols, Data Structures, Database Systems, Computer Learning, Software Engineering
WoS Research Areas: Computer Science Software Engineering
Scopus Research Areas: Software

Academic Positions

Associate Professor, Manisa Celal Bayar University, HASAN FERDİ TURGUTLU TEKNOLOJİ FAKÜLTESİ, YAZILIM MÜHENDİSLİĞİ, 2020 - Present
Lecturer, Ege University, 2019 - 2020
Research Assistant, Istanbul Technical University, 2018 - 2019

Academic and Administrative Experience

Vice Dean, Manisa Celal Bayar University, Hasan Ferdi Turgutlu Teknoloji Fakültesi, 2025 - Present
Applied Research Center Board Member, Manisa Celal Bayar University, REKTÖRLÜK, 2024 - Present
Deputy Head of Department, Manisa Celal Bayar University, HASAN FERDİ TURGUTLU TEKNOLOJİ FAKÜLTESİ, YAZILIM MÜHENDİSLİĞİ, 2022 - Present

Courses

Undergraduate
Veritabanı Yönetim Sistemleri, Undergraduate, 2023-2024, 2022-2023, 2021-2022
Yazılım Ölçütleri, Undergraduate, 2023-2024, 2022-2023, 2021-2022
Mobil Uygulama Geliştirme, Undergraduate, 2022-2023, 2021-2022, 2020-2021
Veri Yapıları, Undergraduate, 2022-2023, 2021-2022, 2020-2021
Gömülü Sistemler, Undergraduate, 2022-2023
Yazılım Bakımı, Undergraduate, 2021-2022
Bilgisayar Mimarisi, Undergraduate, 2020-2021
İleri Web Programlama, Undergraduate, 2020-2021
Profesyonel Yazılım Geliştirme, Undergraduate, 2020-2021
Biçimsel Diller ve Otomata Teorisi, Undergraduate, 2020-2021
Undergraduate Double Major
Yazılım Ölçütlerinde İleri Konular, Undergraduate Double Major, 2022-2023, 2021-2022
Mobil Programlama, Undergraduate Double Major, 2022-2023, 2021-2022, 2020-2021

Supervised Theses

Özçevik Y., Karmaşık Flutter Kullanıcı Arayüzlerinde setState() Performans Sorunlarının Tespiti, Açıklanması ve Azaltılması için Makine Öğrenmesi Tabanlı bir VS Code Eklentisi, Postgraduate, A.ABDERAFIK(Student), 2025
Özçevik Y., Çapraz ve Yerel Platformlarda Geliştirilen Mobil Uygulamaların Performans Kriterleri Açısından Karşılaştırılması, Postgraduate, H.YASİN(Student), 2025
Özçevik Y., Akıllı Tarım için Nesnelerin İnterneti ve Yapay ZekaDestekli Otomatik Damla Sulama Sistemi, Postgraduate, A.CAN(Student), 2025
Özçevik Y., Dijital Reklamcılıkta Tıklama Verileri için Derin Öğrenme Tabanlı Anomali Tespiti, Postgraduate, Y.KORUCU(Student), 2025
ÖZÇEVİK Y., Makine Öğrenmesi Yöntemleri ile Türkiye Basketbol Ligi Müsabakalarında Sonuç Tahmini, Postgraduate, M.DUMANLI(Student), 2024
ÖZÇEVİK Y., Endüstriyel üretim bantlarında anomali tespiti için yapay zekâ kullanımı, Postgraduate, M.AYBERK(Student), 2024
ÖZÇEVİK Y., Akıllı Sensör Sistemleri ve Uzaktan Algılama Teknolojileri ile Dijital İkiz Tabanlı Çiftlik Yönetimi, Postgraduate, O.TUĞRUL(Student), 2024
ÖZÇEVİK Y., Makine öğrenmesi ile lise öğrencilerine mesleki alan seçim rehberi, Postgraduate, E.FAZLULLAH(Student), 2022

Articles

I. **QualiGuard: An AI-driven risk-based quality gate for defect prediction and code smell detection in DevOps pipelines**
Kocakaplan B. M., BORANDAĞ E., ÖZÇEVİK Y., YÜCALAR F., ALTAY O.
SOFTWAREX, vol.36, 2026 (SCI-Expanded, Scopus)
II. **Comparative Evaluation of Machine Learning and Hyperparameter Optimization Methods for Low-**

Cost CO2 Sensor Calibration in Terms of Performance and Computational Cost
Karsu Asal E. C., Taştan M., Gökozan H., Özçevik M., Özçevik Y.
SENSORS, vol.26, no.12, pp.1-19, 2026 (SCI-Expanded, Scopus)

III. **A Deep Vision Study with YOLO-V8 and Deepsort for Occupational Safety in Industrial Sites**
Koçoğlu M., Özçevik Y.
Kahramanmaraş Sütçü İmam Üniversitesi Mühendislik Bilimleri Dergisi, vol.29, no.2, pp.931-947, 2026 (TRDizin)

IV. **On the Use of an Extreme Learning Machine for GitHub Repository Popularity Prediction Based on Static Software Metrics**
BORANDAĞ E., YÜCALAR F., ÖZÇEVİK Y., ALTAY O.
ELECTRONICS, vol.15, no.10, 2026 (SCI-Expanded, Scopus)

V. **6G-enabled digital twin-based smart warehouse for supply chain of things**
ÖZÇEVİK M., ÖZÇEVİK Y., Bozkaya-Aras E., Bilen T.
COMPUTING, vol.108, no.6, 2026 (SCI-Expanded, Scopus)

VI. **Vocational Tendency Prediction of Turkish High School Students: Comparison of Different Machine Learning Methods on a Novel Educational Data**
Çelik E. F., Ozcevik Y.
Sinop Üniversitesi fen bilimleri dergisi, vol.10, no.2, pp.562-582, 2025 (TRDizin)

VII. **An embedded TensorFlow lite model for classification of chip images with respect to chip morphology depending on varying feed**
ÖZÇEVİK Y., SÖNMEZ F.
Journal of Intelligent Manufacturing, vol.36, no.3, pp.1623-1635, 2025 (SCI-Expanded, Scopus)

VIII. **A Genetic Optimized Federated Learning Approach for Joint Consideration of End-to-End Delay and Data Privacy in Vehicular Networks**
ÖZÇEVİK M., ÖZÇİFT A., ÖZÇEVİK Y., YÜCALAR F.
Electronics (Switzerland), vol.13, no.21, 2024 (SCI-Expanded, Scopus)

IX. **Average Localization Error Prediction for 5G Networks: An Investigation of Different Machine Learning Algorithms**
ALTAY O., ÖZÇEVİK M., VAROL ALTAY E., ÖZÇEVİK Y.
Wireless Personal Communications, vol.136, no.1, pp.289-319, 2024 (SCI-Expanded, Scopus)

X. **Data-oriented QMOOD model for quality assessment of multi-client software applications**
Özçevik Y.
Engineering Science and Technology, an International Journal, vol.51, 2024 (SCI-Expanded, Scopus)

XI. **A Comparative Study of Metaheuristic Optimization Algorithms for Solving Real-World Engineering Design Problems**
Altay E., ALTAY O., ÖZÇEVİK Y.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.139, no.1, 2024 (SCI-Expanded, Scopus)

XII. **A Real-Time Nut-Type Classifier Application Using Transfer Learning**
ÖZÇEVİK Y.
Applied Sciences (Switzerland), vol.13, no.21, 2023 (SCI-Expanded, Scopus)

XIII. **Human robot interaction as a service for combatting COVID-19: an experimental case study**
ÖZÇEVİK Y.
Journal of Ambient Intelligence and Humanized Computing, vol.14, no.11, pp.14671-14680, 2023 (Scopus)

XIV. **Proof of Evaluation-based energy and delay aware computation offloading for Digital Twin Edge Network**
Bozkaya E., ÖZÇEVİK M., Bilen T., ÖZÇEVİK Y.
Ad Hoc Networks, vol.149, 2023 (SCI-Expanded, Scopus)

XV. **MetricHunter: A software metric dataset generator utilizing SourceMonitor upon public GitHub repositories**
Özçevik Y., Altay O.
SoftwareX, vol.23, 2023 (SCI-Expanded, Scopus)

XVI. **A real-time simulation environment architecture for autonomous vehicle design Otonom araç**

tasarimi için gerçek zamanli benzetim ortami mimarisi
ÖZÇEVİK Y., SOLMAZ Ö., BAYSAL E., Ökten M.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.3, pp.1867-1878, 2023 (SCI-Expanded, Scopus, TRDizin)

XVII. **A HYBRID ANDROID FRONTEND DEVELOPMENT APPROACH WITH TRADITIONAL NESTING LAYOUTS AND CONSTRAINT LAYOUT**
Ozcevik Y.
International Journal of Innovative Engineering Applications, vol.6, no.2, pp.245-254, 2022 (TRDizin)

XVIII. **Determining a Proper Text Similarity Approach for Resume Parsing Process in a Digitized HR Software**
Ozcevik Y., Yücalar F., Demircioğlu M.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.18, no.4, pp.371-378, 2022 (TRDizin)

XIX. **Energy-aware mobility for aerial networks: A reinforcement learning approach**
Bozkaya E., ÖZÇEVİK Y., Akkoç M., Erol M. R., Canberk B.
International Journal of Network Management, vol.32, no.1, 2022 (SCI-Expanded, Scopus)

XX. **GA-based Energy Aware Path Planning Framework for Aerial Network Assistance**
ÖZÇEVİK Y., Bozkaya E., Akkoç M., Erol M. R., Canberk B.
EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, vol.8, no.26, pp.1-11, 2021 (Scopus)

XXI. **Energy aware endurance framework for mission critical aerial networks**
ÖZÇEVİK Y., Canberk B.
Ad Hoc Networks, vol.96, 2020 (SCI-Expanded, Scopus)

XXII. **Grade of Service (GoS) based adaptive flow management for Software Defined Heterogeneous Networks (SDHetN)**
ÖZÇEVİK M., Arslan Z., ÖZÇEVİK Y., Canberk B.
Computer Networks, vol.76, pp.317-330, 2015 (SCI-Expanded, Scopus)

Books

I. **ELECTRICAL AND ELECTRONIC EQUIPMENT IN MEDICAL DEVICES AND IOT-BASED APPLICATIONS**
Gökozan H., Taştan M., Karsu Asal E. C., Özçevik M., Özçevik Y.
in: Handbook On Smarth Healthcare Engineering, Alexandru PASCU,Eren C. KARSU ASAL,Julia Claudia MIRZA-ROSCA,Luis Fernando TALAVERA MARTÍN, Editor, Transilvania University Press, Brasov, pp.41-76, 2026

II. **MEDICAL EQUIPMENT AND TECHNICAL DIAGNOSTICS**
Karsu Asal E. C., Taştan M., Gökozan H., Özçevik M., Özçevik Y.
in: Handbook on Smarth Healthcare Engineerin, Alexandru PASCU,Eren C. KARSU ASAL,Julia Claudia MÎRZA-ROŞCA,Luis Fernando TALAVERA MARTÍN, Editor, Transilvania University Press, Brasov, pp.283-306, 2026

III. **Ağ Katmanı: Veri Düzlemi**
ÖZÇEVİK Y., ÖZÇEVİK M., BOZKAYA ARAS E.
in: Bilgisayar Ağları Yukarıdan Aşağı Bir Yaklaşım Sekizinci Baskıdan Çeviri, SAYIT MÜGE, KARDAŞ GEYLANİ, ATILGAN CAN, TEZEL BARIŞ TEKİN, Editor, Palme Yayınevi, pp.303-376, 2024

IV. **Kodsuz Yazılım Geliştirme Yaklaşımları, No-Code Software Development Approaches**
YÜCALAR F., ÖZÇEVİK M., ÖZÇEVİK Y.
Duvar yayınları, İzmir, 2022

V. **TMMi 2. Düzey Süreç Alanlarının Scrum Pratiklerine Uyarlanması**
YÜCALAR F., ÖZÇEVİK Y.
in: Mühendislik Alanında Araştırma ve Değerlendirmeler II, Doç. Dr. Selahattin BARDAK, Dr. Öğr. Üyesi. Nesli AYDIN, Dr. Öğr. Üyesi Yalçın BOZTOPRAK, Editor, Gece Kitaplığı, Ankara, pp.227-250, 2021

VI. **Software-Defined Wireless Networking: A NewParadigm for Next Generation Network Management Framework**
ÖZÇEVİK M., ARSLAN Z., ÖZÇEVİK Y., CANBERK B.

in: Modeling and Simulationof Computer Networks and Systems Methodologies and Applications, M.S. Obaidat, F. Zarai and P. Nicopolitidis, Editor, ELSEVIER PUBLICATIONS, pp.751-766, 2015

Papers Presented at Peer-Reviewed Scientific Conferences

I. **A Performance Investigation of Android Asynchronous Tasks Implemented by Kotlin Coroutines And Threads**
Özçevik Y.
20th International Istanbul Scientific Research Congress on Life, Engineering, Architecture and Mathematical Sciences, İstanbul, Turkey, 21 - 23 February 2025, pp.296-304, (Full Text)

II. **Optimal Location Assignment for Data-Driven Warehouse Towards Digital Supply Chain Twin**
ÖZÇEVİK M., ÖZÇEVİK Y., Bozkaya E., Bilen T.
2023 IEEE 28th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks, CAMAD 2023, Edinburgh, England, 6 - 08 November 2023, pp.117-122, (Full Text)

III. **Work-in-Progress: Merkle Tree-Based Secure Routing for Digital Twin-Assisted Aircraft Network in 6G Wireless**
Bilen T., ÖZÇEVİK M., Bozkaya E., ÖZÇEVİK Y.
2023 IEEE International Black Sea Conference on Communications and Networking, BlackSeaCom 2023, İstanbul, Turkey, 4 - 07 July 2023, pp.420-425, (Full Text)

IV. **A Quantitative Performance Benchmark of Different Navigation Patterns and User Interface Design Frameworks for an Enhanced iOS Experience**
Özçevik Y.
8th International Conference on Computer Science and Engineering, UBMK 2023, Burdur, Turkey, 13 - 15 September 2023, pp.195-200, (Full Text)

V. **Energy-Aware Task Scheduling for Digital Twin Edge Networks in 6G**
Bozkaya E., Bilen T., ÖZÇEVİK M., ÖZÇEVİK Y.
2023 International Conference on Smart Applications, Communications and Networking, SmartNets 2023, İstanbul, Turkey, 25 - 27 July 2023, (Full Text)

VI. **FEASIBILITY OF MACHINE LEARNING METHODS FOR DIGITAL TRANSFORMATION ON HIGH SCHOOL EDUCATION**
ÇELİK E. F., ÖZÇEVİK Y.
14. ULUSLARARASI EJONSMATEMATİK-MÜHENDİSLİK-FEN VE SAĞLIK BİLİMLERİ KONGRESİ, 06 July 2022, (Full Text)

VII. **Identifying Redundant Attributes for Software Error Prediction with The BugHunter Data Set**
ÖZÇEVİK Y.
8th International Mardin Artuklu Scientific Researches Conference, Mardin, Turkey, 4 - 06 June 2022, pp.80-90, (Full Text)

VIII. **The Effect of Dataset Balancing for Software Bug Prediction**
KARADEMİR K. C., ÇAKAR M. A., KİZGİN İ., KÖROĞLU T., ÖZÇEVİK Y.
6th International New York Conference on Evolving Trends in Interdisciplinary Research & Practices, New York, United States Of America, 3 - 05 April 2022, pp.27-32, (Full Text)

IX. **A Game-Based Software Ecosystem for Virtual Laboratory Construction**
ÇAPAR S., TÜRKMEN S. E., ÖZÇEVİK Y.
6th International New York Conference on Evolving Trends in Interdisciplinary Research & Practices, New York, United States Of America, 3 - 05 April 2022, pp.21-26, (Full Text)

X. **Android Local Data Storage for Enhanced Quality of Experience: Performance Benchmark of Different Approaches on a Transactional Application**
ÖZÇEVİK Y.
2022 Innovations in Intelligent Systems and Applications Conference, ASYU 2022, Antalya, Turkey, 7 - 09 September 2022, (Full Text)

XI. **Trafik Levhası Tanıma için Sokak Görüntüleri Kullanarak Veri Seti Oluşturma ve Sınama**
SOLMAZ Ö., ÖZÇEVİK Y., BAYSAL E., ÖKTEN M., ÇULHA A.
2nd International Symposium on Automotive Science and Technology (ISASTECH), Ankara, Turkey, 8 - 10 September 2021, pp.344-349, (Full Text)

XII. **Gerçek Zamanlı Simülasyonda Şerit Takibi için Otonom Araç Tasarımı**
SOLMAZ Ö., ÖZÇEVİK Y., BAYSAL E., ÖKTEN M., PANPALLI A.
2nd International Symposium on Automotive Science and Technology (ISASTECH), Ankara, Turkey, 8 - 10 September 2021, pp.310-316, (Full Text)

XIII. **Simplified QMOOD model proposal based on correlation analysis in different client applications Farkli istemci uygulamalari için korelasyon analizine dayali sadeleştirilmiş QMOOD önerisi**
ÖZÇEVİK Y.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021, (Full Text)

XIV. **Scalability Analysis and Flow AdmissionControl in Mininet based SDN Environment**
ÖZÇEVİK M., TEOMAN E., ÖZÇEVİK Y., SEÇİNTİ G., CANBERK B.
IEEE Conference on Network FunctionVirtualization Software Defined Networks (IEEE NFV-SDN), 18 - 21 November 2015, (Full Text)

XV. **Spatio Temporal Multi stage OpenFlow Switch Model forSoftware Defined Cellular Networks**
ÖZÇEVİK Y., ÖZÇEVİK M., CANBERK B.
IEEE 82th Vehicular Technology Conference (IEEE VTC), 6 - 09 September 2015, (Full Text)

XVI. **NOC based Banyan OpenFlow Switch for Software Defined Networks**
ÖZÇEVİK Y., ÖZÇEVİK M., Canberk B.
23nd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1433-1436, (Full Text)

XVII. **SDoff: A software-defined offloading controller for heterogeneous networks**
ARSLAN Z., ÖZÇEVİK M., ÖZÇEVİK Y., CANBERK B.
2014 IEEE Wireless Communications and Networking Conference (WCNC), İstanbul, Turkey, 6 - 09 April 2014, pp.2827-2832, (Full Text)

XVIII. **A Topology Control Mechanism for Cognitive Smallcell NetworksUnder Heterogeneous Traffic**
ÖZÇEVİK M., ÖZÇEVİK Y., CANBERK B.
IEEE 14th International Symposium and Workshopson aWorld of Wireless, Mobile and Multimedia Networks (IEEEWoWMoM), 4 - 07 June 2013, (Full Text)

Funded Projects

ÖZÇEVİK Y., ÖZÇEVİK M., Project Supported by Higher Education Institutions, Yeni Nesil Dijital İkiz Tabanlı Enerji Verimli Bina İçi Ağ Yönetimi, 2024 - Present

ÖZÇEVİK Y., YILDIRIM A., TOMAK M. E., AVCI M. F., PEHLİVANOĞLU S., TUBITAK Project, Müziklerin Dinamik Özelliklerini Gerçek Zamanlı Olarak Analiz Ederek Oyun Motoruna Aktaracak ve Oyun Dinamiklerini Anlık Değiştirecek Sistem Geliştirilmesi, 2024 - Present

YABANOVA İ., BAŞARAN K., UYSAL A., ÖZÇEVİK Y., Project Supported by Higher Education Institutions, BAP Infrastructure, Gömülü Sistem Eğitiminde Simülasyon ve Uygulamalı Eğitimin Öğrenci Başarıları Üzerine Etkisinin Araştırılması, 2024 - 2025

ÖZÇEVİK Y., ULUSOY İ. İ., APA M. E., KAHRAMAN M. C., SARI Ö., ALKAN Ö., ÖZMEN İ., Yapay Zeka Destekli Satış Sonrası Servis Platformu, 2023 - 2024

ÖZÇEVİK Y., ÖZÇEVİK M., ALTINTAŞ V., ÖĞÜT M. N., Other International Funding Programs, STREAM It Up!-3, 2023 - 2024

BORANDAĞ E., YÜCALAR F., ÖZÇEVİK M., ÇELİKTEN T., AYGÜN İ., VAROL ALTAY E., ASLAN E., ÖZÇİFT A., AYGÜN E. N., ALTAY O., et al., Project Supported by Higher Education Institutions, Dijital Dönüşüm ve Yenilikçi Teknolojiler Çalıştayı, 2023 - 2024

BORANDAĞ E., ÖZÇEVİK M., ÇELİKTEN T., ÖZÇEVİK Y., Project Supported by Higher Education Institutions, Farklı Mobil

Uygulama Geliştirme Yaklaşımlarının Kullanıcı Deneyimine Etkisinin Araştırılması, 2022 - 2023
ÖZÇEVİK Y., ÖĞÜT M. N., Other International Funding Programs, STREAM It Up!-2, 2022 - 2023
ÖZÇEVİK Y., BAYSAL E., ÖKTEN M., SOLMAZ Ö., Project Supported by Higher Education Institutions, Trafik Levhalarını Tanıyarak Yönlendirilebilen Otonom Araç Tasarımı ve İmalatı, 2021 - 2022
ÖZÇEVİK Y., CANBERK B., Project Supported by Higher Education Institutions, Güdümlü Havasal Ağlar için Enerji Etkin Endürans Modeli, 2018 - 2020

Student Project

Other, Yapay Zekâ Destekli Talaş Morfolojisi Analizi, Manisa Celal Bayar University, Hasan Ferdi Turgutlu Teknoloji Fakültesi, Yazılım Mühendisliği, Turkey, 2024 - 2025

Metrics

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