

## **Dr. Tamer Uçar**

Bahçeşehir University

İstanbul/Turkey

[tamer.ucar@bau.edu.tr](mailto:tamer.ucar@bau.edu.tr)

<https://akademik.bahcesehir.edu.tr/web/tamerucar>

### **EDUCATION**

Ph.D., Computer Engineering, Bahçeşehir University, İstanbul, Turkey (2017)

M.S., Computer Engineering, Bahçeşehir University, İstanbul, Turkey (2009)

B.S., Computer Engineering, Bahçeşehir University, İstanbul, Turkey (2006)

### **WORK EXPERIENCE**

(2018 - ) Assist. Prof., Bahçeşehir University, Dept. of Software Engineering, İstanbul, Turkey

(2009 - 2018) Instructor, Bahçeşehir University, Dept. of Software Engineering, İstanbul, Turkey

(2007 - 2009) Res. Assist., Bahçeşehir University, Dept. of Software Engineering, İstanbul, Turkey

### **RESEARCH INTERESTS**

- Artificial Intelligence
- Machine Learning
- Data Mining
- Recommender Systems

### **SUPERVISED THESES**

- Ahmed Raad Ahmed Alzuabidi, "Machine Learning Strategies for Stock Market Predictions", BAU Graduate School, 2023.
- Alperen Kan, "Benchmarking Study for Customer Churn Prediction: A Case Study in the E-Commerce Industry", BAU Graduate School, 2023.
- Emre Vanlıoğlu, "Fraud Detection Using Big Data Tools and Machine Learning in Banking", BAU Graduate School, 2023.
- Mehmet Emre Özengen, "Binary Classification in an Imbalanced Dataset: An Application on Credit Customers of a Turkish Bank", BAU Graduate School, 2023.

- Mehmet İrfan Damgacı, “Students' Success Prediction on High School Entrance Exam by Machine Learning”, BAU Graduate School, 2023.
- Nesimi Atbaşı, “Fintek Uygulama Geliştirme Süreçlerinde Çalışanların Örgütsel Yenilikçilik Davranışlarının Örgütsel Değişime Hazır Olma ve Örgütsel Çevikliğe Etkisi”, BAU Lisansüstü Eğitim Enstitüsü, 2023.
- Yunus Cihangir, “Big Data Applications in Banking Credit Risk Audits: Sampling Through Machine Learning”, BAU Graduate School, 2023.
- Ahmed Khaleel Khudhur, “An Efficient Approach for Intrusion Detection System Based on Machine Learning”, BAU Graduate School, 2022.
- Aybüke Kara, “Prediction of Venue Entrance Intensity by Data Mining Methods”, BAU Graduate School, 2022.
- Muataz Jijawi, “Improving the Volunteer Work Process by Using Recommendation Systems”, BAU Graduate School, 2022.
- Özge Özdamar, “Pazarlama Algısı ile Satın Alma Niyeti Arasındaki İlişkide Müşteri Deneyiminin Aracılık Rolü”, BAU Lisansüstü Eğitim Enstitüsü, 2022.
- Yiğit Can Türk, “Text Summarization with the Help of AI”, BAU Graduate School, 2022.
- Ahmad Hisham Arnaout, “Discovering Users' Usage Patterns of Web Log Through Association Rules Mining Methodology”, BAU Graduate School, 2021.
- Atakan Başkor, “Application of Machine Learning Models and Statistical Approaches in Dextetoprofen Pharmaceutical Dosage Form”, BAU Graduate School, 2021.
- Barbaros Şenocak, “Data Mining and Machine Learning Applications in Bank Audit”, BAU Graduate School, 2021.
- Ilyas Chenouf, “Smart Lecture: Extensible and Scalable Learning Application Using Web Service Technology”, BAU Graduate School, 2021.
- Junior Gerald Mbu Atang, “Big Data Analytics in Real Estate Management”, BAU Graduate School, 2021.
- Mert İnandır, “Machine Learning Algorithms Implementation and Evaluation on Apache Spark Pyspark”, BAU Graduate School, 2021.

## **PUBLICATIONS**

### **Journal Publications**

- Alparslan, S., Uçar, T. 2023. Comparison of commodity prices by using machine learning models in the COVID-19 era. Turkish Journal of Engineering. 7(4):358-368.

- Ayhan T., Uçar T. 2022. Determining Customer Limits by Data Mining Methods in Credit Allocation Process. *International Journal of Electrical and Computer Engineering*. 12(2):1910-1915.
- Başkor B., Piriñci Tok Y., Mesut B., Özsoy Y., Uçar T. 2021. Estimating the Optimal Dexketoprofen Pharmaceutical Formulation with Machine Learning Methods and Statistical Approaches. *Healthcare Informatics Research*. 27(4):279-286.
- Uçar T., Karahoca A. 2021. Benchmarking Data Mining Approaches for Traveler Segmentation. *International Journal of Electrical and Computer Engineering*. 11(1):409-415.
- Uçar T., Karahoca A., Karahoca D. 2019. NTRS: a New Travel Recommendation System Framework by Hybrid Data Mining. *International Journal of Mechanical Engineering and Technology*. 10(01):935-946.
- Uçar T., Karahoca A. 2016. Developing an Intelligent Trip Recommender System by Data Mining Methods. *Global Journal of Information Technology: Emerging Technologies*. 6(1):119-127.
- Uçar T., Karahoca A. 2015. Personalizing Trip Recommendations: A Framework Proposal. *Global Journal of Computer Sciences: Theory and Research*. 5(1):30-35.
- Uçar, T., Karahoca, A., Karahoca, D. 2013. Tuberculosis disease diagnosis by using adaptive neuro fuzzy inference system and rough sets. *Neural Computing and Applications*. 23(2):471-483.

### **Conference Papers**

- Uçar E., Bağrıyanık S., Uçar T. Sigara Bırakma Terapilerinde ve Sigara Aşermesi Tedavilerinde Sanal Gerçeklik Kullanımı. X. Işık Savaşır Klinik Psikoloji Sempozyumu "Dijital Dünyada Klinik Psikoloji: Gelenekselden Çağdaş Yaklaşımlara"; 02-03 Haziran 2023.
- Başkor B., Piriñci Tok Y., Mesut B., Özsoy Y., Uçar T. Makine Öğrenmesi Modellerinin ve İstatistiksel Yaklaşımların Deksketoprofen Farmasötik Dozaj Formunda Uygulanması. 4th International Conference on Data Science & Applications (ICONDATA); 2021 June 04-06.
- Uçar, T., Karahoca, A. Predicting existence of Mycobacterium tuberculosis on patients using data mining approaches. *World Conference on Information Technology (WCIT 2010)*; 2010 October 06-10; Available from: *Procedia Computer Science*. 3:1404-1411 (2011).
- Yıldırım, E. G., Karahoca, A., Uçar, T. Dosage planning for diabetes patients using data mining methods. *World Conference on Information Technology (WCIT 2010)*; 2010 October 06-10; Available from: *Procedia Computer Science*. 3:1374-1380 (2011).
- Uçar T., Karahoca D., Karahoca A. Mycobacterium Tuberculosis Enfeksiyonunun Bayes Ağları ve Yaklaşımlı Kümeler ile Tahmini. 15. Biyomedikal Mühendisliği Ulusal Toplantısı (BIYOMUT); 21-24 Nisan 2010.
- Karahoca, D., Küpçüoğlu, E., Karahoca, A., Uçar, T., Yücel, A. Teaching information technologies via interactive ways on secondary education. *World Conference on Educational Sciences (WCES)*

2010); 2010 February 04-08; Available from: Procedia-Social and Behavioral Sciences. 2(2):5793-5797 (2010).

- Karahoca A., Karahoca D., Gngr A., Uar T. E-grenme Portalının Kullanılabilirliđinin Deđerlendirilmesinde Biliřsel Yeteneklerin ve Bireysel Farklılıkların İrdelenmesi. YKGS2008: Yazılım Kalitesi ve Yazılım Geliřtirme Araları; 09-10 Ekim 2008.

## **TEACHING EXPERIENCE**

- SEN1001 - Introduction to Programming (Java)
- SEN1002 - Object Oriented Programming (Java)
- SEN2102 - IBM Database Programming
- SEN2211 - Data Structures & Algorithms I
- SEN2212 - Data Structures & Algorithms II
- SEN2104 - Database Management Systems
- SEN3004 - Web Programming
- SEN3006 - Software Architecture
- SEN4017 - GUI Programming with Python
- SEN4013 - Software Verification and Validation
- SEN4406 - Advances in Web Programming
- SEN4991 - Capstone Project I
- SEN4992 - Capstone Project II
- YZM5507 - Veri Modelleme ve İliřkisel Veritabanları
- YZM5511 - Bilgi Sistemleri Analiz ve Tasarımı
- YZM5610 - Bilgi Teknolojilerinde Proje Ynetimi