

## Prof. DERYA BİRANT

### Personal Information

**Office Phone:** [+90 232 301 7403](tel:+902323017403)

**Email:** [derya.birant@deu.edu.tr](mailto:derya.birant@deu.edu.tr)

**Other Email:** [derya@cs.deu.edu.tr](mailto:derya@cs.deu.edu.tr)

**Web:** <https://avesis.deu.edu.tr/derya.birant>



### International Researcher IDs

ORCID: 0000-0003-3138-0432

Publons / Web Of Science ResearcherID: U-6211-2017

ScopusID: 6508164583

Yoksis Researcher ID: 202446

### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey 2002 - 2006

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2000 - 2002

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 1995 - 2000

### Biography

Derya Birant received her BSc, MSc and PhD in Computer Engineering from the Dokuz Eylul University, Turkey, in 2000, 2002 and 2006, respectively. Since 2023, she has been a Professor at the same place. She was a Visiting Lecturer at the South East European University in 2006 and Ege University between 2010 and 2012. Dr. Birant has supervised more than 30 PhD and MSc students. She has been involved in more than 20 long-term interdisciplinary R&D projects on data science. She has published over 120 research papers in journals, books, and conferences. Her research interests include machine learning and data mining.

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Occupational Health and Safety, İş Sağlığı ve İş Güvenliği Eğitimi, Dokuz Eylül Üniversitesi, 2014

### Dissertations

Doctorate, Modeling and Analyzing Marine Data Using Data Mining Techniques, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2006

Postgraduate, A Three-Dimensional Human Body Modeling System, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YL) (Tezli), 2002

## Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition

## Academic Titles / Tasks

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2023 - Continues

Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2017 - 2023

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2009 - 2017

Lecturer PhD, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2007 - 2009

Lecturer PhD, South East European University, 2006 - 2007

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2000 - 2007

## Academic and Administrative Experience

Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2023 - Continues

Bölüm MÜDEK Komisyonu Başkanı, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2020 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2017 - Continues

Assistant Manager of Research and Application Center, Dokuz Eylul University, 2010 - 2021

Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2019 - 2020

Bölüm MÜDEK Komisyonu Üyesi, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2016 - 2020

Member of ADEK Commission, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - 2016

Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2011 - 2013

## Courses

Ph.D. RESEARCH, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Ph.D. THESIS, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

ALGORITHMS AND PROGRAMMING II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

STRATEGIC INFORMATION SYSTEM DEVELOPMENT, Postgraduate, 2022 - 2023, 2020 - 2021, 2018 - 2019, 2015 - 2016

SENIOR PROJECT, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

M.Sc. RESEARCH, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

PROJECT BASED LEARNING II, Undergraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

M.Sc. THESIS, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

PERFORMANCE MEASUREMENT IN BUSINESSES, Undergraduate, 2022 - 2023  
ADVANCED INFORMATION SYSTEMS, Postgraduate, 2022 - 2023  
M.Sc. SEMINAR, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
ALGORITHMS AND PROGRAMMING I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008  
COMPUTER ENGINEERING DESIGN, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013  
NEURAL NETWORKS, Postgraduate, 2021 - 2022, 2019 - 2020  
PROJECT BASED LEARNING I, Undergraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
ADVANCED INFORMATION SYSTEMS, Postgraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018  
Ph.D. SEMINAR, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
TEMPORAL INFORMATION SYSTEMS, Postgraduate, 2020 - 2021  
PATTERN RECOGNITION, Postgraduate, 2018 - 2019  
INTRODUCTION TO DATA MINING, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008  
DATA MINING AND KNOWLEDGE DISCOVERY, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
COMPUTER PROGRAMMING, Undergraduate, 2017 - 2018, 2016 - 2017  
MACHINE LEARNING AND REASONING, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2011 - 2012, 2010 - 2011, 2009 - 2010  
ARTIFICIAL INTELLIGENCE, Postgraduate, 2012 - 2013, 2010 - 2011  
İLERİ ALGORİTMALAR, Postgraduate, 2010 - 2011  
WINDOWS PROGRAMLAMA, Undergraduate, 2011 - 2012  
M.Sc. TERM PROJECT, Postgraduate, 2010 - 2011  
WEB TABANLI WINDOWS PROGRAMLAMA, Undergraduate, 2011 - 2012, 2010 - 2011  
DESIGN AND IMPLEMENTATION OF INFORMATION SYSTEMS, Undergraduate, 2009 - 2010  
VERİ MADENCİLİĞİ , Undergraduate, 2010 - 2011  
1. SINIF MODÜLLERİ, Undergraduate, 2008 - 2009, 2007 - 2008  
COMPUTER GRAPHICS, Undergraduate, 2008 - 2009  
DOT NET PROGRAMMING, Undergraduate, 2006 - 2007  
PRACTICAL PROJECT DESIGN, Undergraduate, 2006 - 2007  
VISUAL PROGRAMMING APPLICATIONS WITH DATABASES, Postgraduate, 2006 - 2007

## Advising Theses

Birant D., Yıldırım Taşer P., Application of Machine Learning Methods in Energy Sector, Doctorate, D.KARABAŞ(Student), Continues  
Birant D., Application of Machine Learning Techniques for Predictive Maintenance, Doctorate, Ö.ECE(Student), Continues  
Birant D., Fraud Detection Using Machine Learning Techniques, Postgraduate, O.ÇINAR(Student), Continues  
Birant D., Application of Machine Learning Methods in the Automotive Industry, Postgraduate, C.İHSAN(Student), 2024  
Birant D., Domain-specific Physical Activity Classification in Intelligent Systems, Doctorate, D.BAĞCI(Student), 2023  
Birant D., Yıldırım Taşer P., Üretimdeki anomalilerin makine öğrenmesi metotları kullanılarak tespit edilmesi, Postgraduate, D.NAZ(Student), 2023  
Birant D., Yazılım mühendisliğinde veri madenciliği tekniklerinin uygulanması, Doctorate, E.ÖZTÜRK(Student), 2023  
Birant D., İnsan aktivitesi tanımda derin öğrenme yöntemlerinin uygulanması, Postgraduate, K.BAYSARI(Student), 2022  
Birant D., Eğitim alanında veri madenciliği ve bilgi keşfi, Doctorate, F.ÜNAL(Student), 2022  
Birant D., Üretim sektöründe makine öğrenmesi yöntemlerinin uygulanması, Doctorate, A.DOĞAN(Student), 2022

Birant D., Yıldırım Taşer P., Makine öğrenmesi yöntemlerini kullanarak tarım için Nesnelerin İnterneti (IoT) tabanlı sistem geliştirilmesi, Postgraduate, C.KÜÇÜK(Student), 2021

BİRANT D., Artırılmış gerçeklik ve makine öğrenmesi teknikleri kullanılarak akıllı sistemlerin geliştirilmesi, Doctorate, R.YILMAZER(Student), 2021

BİRANT D., Çevresel enformatikte veri madenciliği ve makine öğrenmesi, Doctorate, G.TÜYSÜZOĞLU(Student), 2021

BİRANT D., Tekstil sektöründe veri mühendisliği ve yönetimi, Doctorate, P.YILDIRIM(Student), 2019

BİRANT D., Anlamlı örüntülerin bulunması için süreç madenciliği algoritmalarının geliştirilmesi, Doctorate, İ.YÜREK(Student), 2018

BİRANT D., Toplu taşımada sunucu tabanlı otomatik ücret toplama ve yönetim sistemi ve veri madenciliği teknikleri ile analizi, Doctorate, U.DEMİR(Student), 2018

BİRANT D., Akıllı karar verme sistemleri oluşturmak için makine öğrenimi yaklaşımı, Doctorate, G.BAKIRLI(Student), 2016

BİRANT D., Bulut bilişimde veri madenciliği tekniklerinin geliştirilmesi, Postgraduate, P.YILDIRIM(Student), 2015

BİRANT D., Akıllı TV izleyicileri için veri madenciliği teknikleri kullanılarak sistem geliştirilmesi, Postgraduate, S.MARANGOZ(Student), 2014

BİRANT D., Makine öğrenme teknikleri kullanılarak fiyat tahminleme sisteminin yapılması ve geliştirilmesi, Postgraduate, S.EREN(Student), 2014

BİRANT D., Platform bağımsız mobil geliştirim, Postgraduate, G.KARLI(Student), 2014

BİRANT D., Veri madenciliği metot ve tekniklerinin havayolu endüstrisinde uygulaması, Postgraduate, K.KAYA(Student), 2014

BİRANT D., Kimya endüstrisinde deney tasarımı için bir yazılım çerçevesinin geliştirilmesi, Postgraduate, P.AZİMLİ(Student), 2013

BİRANT D., Yapay zeka teknikleri kullanılarak SPARQL sorgularının optimizasyonu, Postgraduate, E.GÜZEL(Student), 2012

BİRANT D., Veri madenciliği tekniklerine dayalı tavsiye sistemi, Postgraduate, N.KAYA(Student), 2011

BİRANT D., Web madenciliği: Web sayfalarında örüntü keşfi, Postgraduate, M.TURAN(Student), 2011

BİRANT D., Kullanılabilirlik testlerinde bölgesel etkiler, Postgraduate, E.BOZ(Student), 2011

BİRANT D., İş süreçlerinin model yönelimli yazılım geliştirme metodolojisi ile otomasyonu, Postgraduate, E.SEZEN(Student), 2010

Birant D., MAI instructional model, MLUAT testing methodology and TBmL methodology framework for developing mobile learning software solutions, Doctorate, M.FETAJİ(Student), 2010

## **Advising Graduates (Non-Thesis)**

Birant D., Building Data Mining Applications on SOA Platform, Masters (Non-Thesis), A.İMRE(Student), 2011

## **Jury Memberships**

Doctorate, Doctorate, İzmir Yüksek Teknoloji Enstitüsü, June, 2022

Doctorate, Doctorate, İzmir Yüksek Teknoloji Enstitüsü, October, 2021

Post Graduate, Post Graduate, İzmir Yüksek Teknoloji Enstitüsü, July, 2020

Doctorate, Doctorate, Ege Üniversitesi, August, 2019

Post Graduate, Post Graduate, İzmir Yüksek Teknoloji Enstitüsü, May, 2018

Academic Staff Examination, Academic Staff Examination, İzmir Yüksek Teknoloji Enstitüsü, January, 2018

Post Graduate, Post Graduate, İzmir Yüksek Teknoloji Enstitüsü, December, 2017

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

- I. **Potato Plant Leaf Disease Detection Using Deep Learning Method**  
Sofuoglu C. I., BİRANT D.  
Tarim Bilimleri Dergisi, vol.30, no.1, pp.153-165, 2024 (SCI-Expanded)
- II. **Machine Learning Model Development to Predict Power Outage Duration (POD): A Case Study for Electric Utilities**  
Ghasemkhani B., Kut R. A., Yilmaz R., Birant D., Arıkkök Y. A., Güzelyol T. E., Kut T.  
SENSORS, vol.24, no.13, pp.1-29, 2024 (SCI-Expanded)
- III. **Federated Multi-Label Learning (FMLL): Innovative Method for Classification Tasks in Animal Science**  
Ghasemkhani B., Varliklar O., Dogan Y., Utku S., Birant K. U., Birant D.  
ANIMALS, vol.14, no.14, pp.1-27, 2024 (SCI-Expanded)
- IV. **ERIM: An ensemble of rare itemset mining and its application in the automotive industry**  
Akdas D. N., Birant D., Yıldırım Taşer P.  
EXPERT SYSTEMS, vol.41, no.6, pp.1-14, 2024 (SCI-Expanded)
- V. **A Novel Classification Method: Neighborhood-Based Positive Unlabeled Learning Using Decision Tree (NPULUD)**  
Ghasemkhani B., Balbal K. F., Birant K. U., Birant D.  
ENTROPY, vol.26, no.5, pp.1-21, 2024 (SCI-Expanded)
- VI. **Stepwise dynamic nearest neighbor (SDNN): a new algorithm for classification**  
Karabaş D., BİRANT D., Yıldırım Taşer P.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.31, no.5, pp.751-770, 2023 (SCI-Expanded)
- VII. **High-Level K-Nearest Neighbors (HLKNN): A Supervised Machine Learning Model for Classification Analysis**  
Ozturk Kiyak E., Ghasemkhani B., BİRANT D.  
ELECTRONICS, no.18, 2023 (SCI-Expanded)
- VIII. **Human activity recognition based on multi-instance learning**  
Bagci Das D., BİRANT D.  
EXPERT SYSTEMS, vol.40, no.7, 2023 (SCI-Expanded)
- IX. **Logistic Model Tree Forest for Steel Plates Faults Prediction**  
Ghasemkhani B., YILMAZ R., BİRANT D., KUT R. A.  
MACHINES, no.7, 2023 (SCI-Expanded)
- X. **Machine learning for fault analysis in rotating machinery: A comprehensive review**  
Das O., Bagci Das D., BİRANT D.  
HELIYON, no.6, 2023 (SCI-Expanded)
- XI. **Support Vector Machine Chains with a Novel Tournament Voting**  
Atik C., KUT R. A., YILMAZ R., BİRANT D.  
ELECTRONICS, vol.12, no.11, 2023 (SCI-Expanded)
- XII. **Partial Decision Tree Forest: A Machine Learning Model for the Geosciences**  
Kiyak E. O., TÜYSÜZOĞLU G., BİRANT D.  
MINERALS, vol.13, no.6, 2023 (SCI-Expanded)
- XIII. **Rainfall Prediction Using an Ensemble Machine Learning Model Based on K-Stars**  
TÜYSÜZOĞLU G., BİRANT K. U., BİRANT D.  
SUSTAINABILITY, vol.15, no.7, 2023 (SCI-Expanded)
- XIV. **GASEL: Genetic algorithm-supported ensemble learning for fault detection in autonomous underwater vehicles**  
Bagci Das D., Birant D.  
OCEAN ENGINEERING, vol.272, 2023 (SCI-Expanded)
- XV. **Balanced K-Star: An Explainable Machine Learning Method for Internet-of-Things-Enabled Predictive Maintenance in Manufacturing**  
Ghasemkhani B., AKTAŞ Ö., BİRANT D.

- MACHINES, vol.11, no.3, 2023 (SCI-Expanded)
- XVI. **Multi-Objective Multi-Instance Learning: A New Approach to Machine Learning for eSports**  
Birant K. U., Birant D.  
ENTROPY, vol.25, no.1, 2023 (SCI-Expanded)
- XVII. **A Novel Machine Learning Approach: Soil Temperature Ordinal Classification (STOC)**  
KÜÇÜK C., BİRANT D., TAŞER P. Y.  
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, vol.28, no.4, pp.635-649, 2022 (SCI-Expanded)
- XVIII. **Improving the Performance and Explainability of Indoor Human Activity Recognition in the Internet of Things Environment**  
Cengiz A. B., Birant K. U., Cengiz M., Birant D., Baysari K.  
SYMMETRY-BASEL, vol.14, no.10, 2022 (SCI-Expanded)
- XIX. **Machine Learning Models for the Prediction of Energy Consumption Based on Cooling and Heating Loads in Internet-of-Things-Based Smart Buildings**  
Ghasemkhani B., Yılmaz R., Birant D., Kut R. A.  
SYMMETRY-BASEL, vol.14, no.8, 2022 (SCI-Expanded)
- XX. **Classifying Horse Activities with Big Data Using Machine Learning**  
Birant D., , Tepe E.,  
KUWAIT JOURNAL OF SCIENCE, vol.2022, pp.1-14, 2022 (SCI-Expanded)
- XXI. **Soil Temperature Prediction via Self-Training: Izmir Case**  
TÜYSÜZOĞLU G., BİRANT D., Kiranoglu V.  
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, vol.28, no.1, pp.47-62, 2022 (SCI-Expanded)
- XXII. **K-centroid link: a novel hierarchical clustering linkage method**  
DOĞAN A., BİRANT D.  
APPLIED INTELLIGENCE, vol.52, no.5, pp.5537-5560, 2022 (SCI-Expanded)
- XXIII. **Temporal bagging: a new method for time-based ensemble learning**  
Tüysüzoglu G., Birant D., Kiranoglu V.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.1, pp.279-294, 2022 (SCI-Expanded)
- XXIV. **Machine learning and data mining in manufacturing**  
Doğan A., Birant D.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.166, 2021 (SCI-Expanded)
- XXV. **Time-oriented interactive process miner: a new approach for time prediction**  
Yurek I., BİRANT D., Yurek O. E., BİRANT K. U.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.1, pp.122-137, 2021 (SCI-Expanded)
- XXVI. **A new approach: semisupervised ordinal classification**  
Unal F., BİRANT D., Seker Ö.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.3, pp.1797-1820, 2021 (SCI-Expanded)
- XXVII. **Deep learning for Turkish makam music composition**  
Parlak İ. H., Çebi Y., Işıkhan C., Birant D.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.7, pp.3107-3118, 2021 (SCI-Expanded)
- XXVIII. **An improved version of multi-view k-nearest neighbors (MVKNN) for multiple view learning**  
Öztürk Kiyak E., Birant D., Birant K. U.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.3, pp.1401-1428, 2021 (SCI-Expanded)
- XXIX. **Ordered physical human activity recognition based on ordinal classification**  
Das D., BİRANT D.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.5, pp.2416-2436, 2021

- (SCI-Expanded)
- XXX. **Shelf Auditing Based on Image Classification Using Semi-Supervised Deep Learning to Increase On-Shelf Availability in Grocery Stores**  
Yilmazer R., Birant D.  
SENSORS, vol.21, no.2, 2021 (SCI-Expanded)
- XXXI. **Enhanced Bagging (eBagging): A Novel Approach for Ensemble Learning**  
Tüysüzoğlu G., Birant D.  
INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY, vol.17, no.4, pp.515-528, 2020 (SCI-Expanded)
- XXXII. **Multitask-based association rule mining**  
Taser P. Y., Birant K. U., Birant D.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.2, pp.933-955, 2020 (SCI-Expanded)
- XXXIII. **Passenger scoring for free-pass promotion in public transportation**  
Alan U. D., BİRANT D.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.4, pp.2110-2127, 2020 (SCI-Expanded)
- XXXIV. **Majority Voting Based Multi-Task Clustering of Air Quality Monitoring Network in Turkey**  
Tüysüzoğlu G., Birant D., Pala A.  
APPLIED SCIENCES-BASEL, vol.9, no.8, 2019 (SCI-Expanded)
- XXXV. **EBOC: Ensemble-Based Ordinal Classification in Transportation**  
Yıldırım P., Birant U. K., Birant D.  
JOURNAL OF ADVANCED TRANSPORTATION, 2019 (SCI-Expanded)
- XXXVI. **Server-Based Intelligent Public Transportation System with NFC**  
Alan U. D., Birant D.  
IEEE INTELLIGENT TRANSPORTATION SYSTEMS MAGAZINE, vol.10, no.1, pp.30-46, 2018 (SCI-Expanded)
- XXXVII. **Interactive process miner: a new approach for process mining**  
Yurek I., Birant D., Birant K. U.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.3, pp.1314-1328, 2018 (SCI-Expanded)
- XXXVIII. **Data mining and machine learning in textile industry**  
Yildirim P., Birant D., Alpyıldız T.  
WILEY INTERDISCIPLINARY REVIEWS-DATA MINING AND KNOWLEDGE DISCOVERY, vol.8, no.1, 2018 (SCI-Expanded)
- XXXIX. **Novel Two-Dimensional Visualization Approaches for Multivariate Centroids of Clustering Algorithms**  
Doğan Y., Dalkılıç F., Birant D., Kut R. A., Yılmaz R.  
SCIENTIFIC PROGRAMMING, vol.2018, 2018 (SCI-Expanded)
- XL. **Discovering the relationships between yarn and fabric properties using association rule mining**  
Yildirim P., Birant D., Alpyıldız T.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.6, pp.4788-4804, 2017 (SCI-Expanded)
- XLI. **K-Linkage: A New Agglomerative Approach for Hierarchical Clustering**  
Yildirim P., Birant D.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.17, no.4, pp.77-88, 2017 (SCI-Expanded)
- XLII. **Development of an Interactive Game-Based Learning Environment to Teach Data Mining**  
Cengiz M., Birant K. U., Yıldırım P., Birant D.  
INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.33, no.5, pp.1598-1617, 2017 (SCI-Expanded)
- XLIII. **DTreeSim: A new approach to compute decision tree similarity using re-mining**  
Bakirli G., Birant D.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.1, pp.108-125, 2017 (SCI-Expanded)

- XLIV. **A Gradual Approach for Multimodel Journey Planning: A Case Study in Izmir, Turkey**  
Dalkılıç F., Doğan Y., Birant D., Kut R. A., Yılmaz R.  
JOURNAL OF ADVANCED TRANSPORTATION, 2017 (SCI-Expanded)
- XLV. **An ant colony optimisation approach for optimising SPARQL queries by reordering triple patterns**  
Kalayci E. G., Kalayci T. E., Birant D.  
Information Systems, vol.50, pp.51-68, 2015 (SCI-Expanded)
- XLVI. **Comparison of Decision Tree Algorithms for Predicting Potential Air Pollutant Emissions with Data Mining Models**  
Birant D.  
JOURNAL OF ENVIRONMENTAL INFORMATICS, vol.17, no.1, pp.46-53, 2011 (SCI-Expanded)
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Birant D., Duran İ., TUBITAK Project, LOGO.US: Alana Özel Bir Makina Öğrenmesi Platformu Gerçekleştirilmesi, 2018 - 2019

Birant D., Amasya M., TUBITAK Project, Gerçek Zamanlı Veri Toplama ve Makine Öğrenmesi Sistemi, 2018 - 2019

BİRANT D., Project Supported by Other Private Institutions, ARMA - Yeni armatör platformu için bulut temelli yazılım çerçevesi ve güvenli uygulama yaşam döngüsü yönetimi altyapı geliştirimi, 2018 - 2019

Birant D., Özen A., TUBITAK Project, Kurumsal Bulut Sistemi (KUBULUS), 2016 - 2017  
BİRANT D., Project Supported by Other Private Institutions, Veri Toplama, İzleme ve Verimlilik Yönetimi Sistemi Projesi, 2015 - 2017  
Birant D., Aran S., TUBITAK Project, Toplu Ulaşımında Sunucu Temelli Ücret Hesaplama ve Hesap Yönetimi Sistemi, 2015 - 2016  
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Birant D., Kut R. A., Mutlu E., TUBITAK Project, OLGU Veri Madenciliği Çözümleri ile Yerel Yönetimlerde Bilgi Keşfi, 2009 - 2011  
Birant D., Kut R. A., Ventura M., TUBITAK Project, NETSİS Kurumsal Yazılımları İş Zekası Geliştirmeleri, 2008 - 2009  
KUT R. A., BİRANT D., Project Supported by Higher Education Institutions, Büyük Konumsal Zamansal Veritabanları için Veri Madenciliği Uygulamasının Geliştirilmesi, 2007 - 2009  
KUT R. A., BİRANT D., Other International Funding Programs, Web based Tools for Quality Assurance Processes at SEE University (SEEU QAT), 2006 - 2007  
BİRANT D., Project Supported by Higher Education Institutions, Dağıtık Sistemlerde Paralel İşlemler İçin Bir Kullanıcı Arayüzü Uygulamasının Geliştirilmesi, 2004 - 2005

## Activities in Scientific Journals

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, Committee Member, 2022 - Continues

## Scientific Refereeing

IEEE LATIN AMERICA TRANSACTIONS, Journal Indexed in SCI-E, May 2023  
INTERDISCIPLINARY SCIENCES, COMPUTATIONAL LIFE SCIENCES, Journal Indexed in SCI-E, January 2023  
IEEE TRANSACTIONS ON AUTOMATION SCIENCE & ENGINEERING, Journal Indexed in SCI-E, January 2023  
JOURNAL OF PROBABILITY AND STATISTICS, Journal Indexed in ESCI, January 2023  
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, SCI Journal, December 2022  
CONNECTION SCIENCE, Journal Indexed in SCI-E, November 2022  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, Journal Indexed in SCI-E, November 2022  
Smart Science, Journal Indexed in ESCI, November 2022  
NATIONAL INSTITUTE ECONOMIC REVIEW, Journal Indexed in ESCI, October 2022  
IEEE TRANSACTIONS ON ARTIFICIAL INTELLIGENCE, Other Indexed Journal, October 2022  
ACM TRANSACTIONS ON COMPUTING FOR HEALTHCARE, Other Indexed Journal, October 2022  
AIN SHAMS ENGINEERING JOURNAL, Journal Indexed in SCI-E, October 2022  
IEEE PHOTONICS JOURNAL, Journal Indexed in SCI-E, October 2022  
INDUSTRIAL RELATIONS, Journal Indexed in SSCI, October 2022  
Intelligent Systems in Accounting, Finance and Management, Journal Indexed in ESCI, September 2022

ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, Journal Indexed in SCI-E, September 2022  
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, Journal Indexed in SCI-E,  
September 2022  
SIGNAL, IMAGE AND VIDEO PROCESSING, Journal Indexed in SCI-E, September 2022  
FRONTIERS IN PUBLIC HEALTH, Journal Indexed in SCI-E, September 2022  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, Journal Indexed in SCI-E, September 2022  
Open Medicine (Poland), Journal Indexed in SCI-E, September 2022  
BMC BIOINFORMATICS, Journal Indexed in SCI-E, August 2022  
INTELLIGENT SYSTEMS WITH APPLICATIONS, Other Indexed Journal, August 2022  
CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, Journal Indexed in SCI-E, August 2022  
COMPUTERS & INDUSTRIAL ENGINEERING, Journal Indexed in SCI-E, August 2022  
PLANT METHODS, Journal Indexed in SCI-E, August 2022  
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, August 2022  
APPLIED SCIENCE AND ENGINEERING PROGRESS, Other Indexed Journal, August 2022  
JORDAN JOURNAL OF MECHANICAL AND INDUSTRIAL ENGINEERING, Journal Indexed in ESCI, August 2022  
SN OPERATIONS RESEARCH FORUM, Other Indexed Journal, August 2022  
MOBILE INFORMATION SYSTEMS, Journal Indexed in SCI-E, July 2022  
RISKS, Journal Indexed in ESCI, July 2022  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, Journal Indexed in SCI-E, July 2022  
DIGITAL HEALTH, Journal Indexed in SCI-E, July 2022  
INFORMATION FUSION, Journal Indexed in SCI-E, July 2022  
SECURITY AND COMMUNICATION NETWORKS, Journal Indexed in SCI-E, July 2022  
CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS, Journal Indexed in SCI-E,  
July 2022  
Journal of Consumer Behaviour, Journal Indexed in SSCI, July 2022  
JOURNAL OF ENVIRONMENTAL AND PUBLIC HEALTH, Other Indexed Journal, July 2022  
PLOS ONE, Journal Indexed in SCI-E, June 2022  
ARABIAN JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, June 2022  
INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, Journal Indexed in SCI-E, June 2022  
APPLIED SCIENCES-BASEL, Journal Indexed in SCI-E, June 2022  
SENSORS, Journal Indexed in SCI-E, June 2022  
COMPUTERS & ELECTRICAL ENGINEERING, Journal Indexed in SCI-E, June 2022  
ACM Transactions on Knowledge Discovery from Data, Journal Indexed in SCI-E, June 2022  
ELECTRONICS, Journal Indexed in SCI-E, June 2022  
Bmc Medical Informatics And Decision Making, Journal Indexed in SCI-E, June 2022  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, June 2022  
STATISTICAL ANALYSIS AND DATA MINING, Journal Indexed in SCI-E, June 2022  
COMPUTERS IN BIOLOGY AND MEDICINE, Journal Indexed in SCI-E, June 2022  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, E-Kalite, Turkey, June 2022  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, Journal Indexed in SCI-E, May 2022  
SCIENTIFIC PROGRAMMING, Journal Indexed in SCI-E, May 2022  
JOURNAL OF ADVANCED TRANSPORTATION, Journal Indexed in SCI-E, May 2022  
MACHINE LEARNING WITH APPLICATIONS, Other Indexed Journal, May 2022  
SYMMETRY-BASEL, Journal Indexed in SCI-E, May 2022  
HELIYON, Journal Indexed in SCI-E, May 2022  
JOURNAL OF HEALTH SCIENCE AND MEDICAL RESEARCH, Other Indexed Journal, May 2022  
APPLIED COMPUTATIONAL INTELLIGENCE AND SOFT COMPUTING, Journal Indexed in ESCI, May 2022  
EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE, Journal Indexed in SCI-E, May 2022  
INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS, Journal Indexed in SCI-E, April 2022  
PETROLEUM SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, April 2022  
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, April 2022



ARTIFICIAL INTELLIGENCE IN MEDICINE, Journal Indexed in SCI-E, April 2022

IEEE SENSORS JOURNAL, Journal Indexed in SCI-E, April 2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, OBSS YAZILIM ANONİM ŞİRKETİ, Turkey, April 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, CLİCKMELİVE TEKNOLOJİ ANONİM ŞİRKETİ , Turkey, April 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, NART BİLİŞİM HİZMETLERİ LTD. ŞTİ., Turkey, April 2022

INFORMATION SCIENCES, Journal Indexed in SCI-E, March 2022

IEEE TRANSACTIONS ON BIG DATA, Journal Indexed in SCI-E, March 2022

WILEY INTERDISCIPLINARY REVIEWS-DATA MINING AND KNOWLEDGE DISCOVERY, Journal Indexed in SCI-E, March 2022

IEEE INTELLIGENT SYSTEMS, Journal Indexed in SCI-E, March 2022

ELECTRONICS LETTERS, Journal Indexed in SCI-E, March 2022

Expert Systems, Journal Indexed in SCI-E, March 2022

INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, Journal Indexed in SCI-E, March 2022

Computer Methods In Biomechanics And Biomedical Engineering, Journal Indexed in SCI-E, March 2022

DIAGNOSTICS, Journal Indexed in SCI-E, March 2022

CYBER-PHYSICAL SYSTEMS, Other Indexed Journal, February 2022

COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, Journal Indexed in SCI-E, January 2022

SAFETY SCIENCE, Journal Indexed in SCI-E, January 2022

PATTERN RECOGNITION LETTERS, Journal Indexed in SCI-E, January 2022

IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, Journal Indexed in SCI-E, January 2022

SN COMPUTER SCIENCE, Other Indexed Journal, January 2022

JOURNAL OF SKIN CANCER, Journal Indexed in ESCI, January 2022

DATA TECHNOLOGIES AND APPLICATIONS, Journal Indexed in SCI-E, January 2022

JOURNAL OF KING SAUD UNIVERSITY-COMPUTER AND INFORMATION SCIENCES, Journal Indexed in SCI-E, January 2022

ARTIFICIAL INTELLIGENCE REVIEW, Journal Indexed in SCI-E, January 2022

KNOWLEDGE-BASED SYSTEMS, Journal Indexed in SCI-E, January 2022

IEEE INTELLIGENT TRANSPORTATION SYSTEMS MAGAZINE, Journal Indexed in SCI-E, January 2022

MEASUREMENT, Journal Indexed in SCI-E, January 2022

EXPERT SYSTEMS WITH APPLICATIONS, Journal Indexed in SCI-E, January 2022

INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, Journal Indexed in SCI-E, January 2022

IEEE ACCESS, Journal Indexed in SCI-E, January 2022

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES, Journal Indexed in ESCI, January 2022

APPLIED SOFT COMPUTING, Journal Indexed in SCI-E, January 2022

IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, Journal Indexed in SCI-E, January 2022

COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, Journal Indexed in SCI-E, January 2022

SOFT COMPUTING, Journal Indexed in SCI-E, January 2022

JOURNAL OF COMPUTATIONAL DESIGN AND ENGINEERING, Journal Indexed in SCI-E, January 2022

PRODUCTION AND MANUFACTURING RESEARCH, Journal Indexed in ESCI, December 2021

IET IMAGE PROCESSING, Journal Indexed in SCI-E, December 2021

INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, Journal Indexed in SCI-E, December 2021

BIG DATA MINING AND ANALYTICS, Other Indexed Journal, November 2021

INTERNATIONAL JOURNAL OF LOGISTICS SYSTEMS AND MANAGEMENT, Other Indexed Journal, October 2021

POWER ENGINEERING LETTERS, Other Indexed Journal, October 2021

BMJ HEALTH & CARE INFORMATICS, Journal Indexed in ESCI, August 2021

IEEE REVIEWS IN BIOMEDICAL ENGINEERING, Journal Indexed in ESCI, August 2021

JOURNAL OF IMAGING, Journal Indexed in ESCI, August 2021  
GEOMATICA, Other Indexed Journal, July 2021  
PEERJ COMPUTER SCIENCE, Journal Indexed in SCI-E, June 2021  
APPLIED COMPUTING AND INFORMATICS, Other Indexed Journal, June 2021  
ADVANCES IN COMPUTATIONAL DESIGN, Journal Indexed in ESCI, May 2021  
COMPLEXITY, Journal Indexed in SCI-E, March 2021  
SOFTWAREX, Journal Indexed in SCI-E, February 2021  
JOURNAL OF SENSORS, Journal Indexed in SCI-E, February 2021  
INTERNATIONAL JOURNAL OF INTELLIGENT COMPUTING AND CYBERNETICS, Journal Indexed in ESCI, January 2021  
SCIENCE CHINA-TECHNOLOGICAL SCIENCES, Journal Indexed in SCI-E, January 2021  
WIRELESS COMMUNICATIONS & MOBILE COMPUTING, Journal Indexed in SCI-E, January 2021  
JOURNAL OF HEALTHCARE ENGINEERING, Journal Indexed in SCI-E, January 2021  
BIOMED RESEARCH INTERNATIONAL, Journal Indexed in SCI-E, January 2021  
ACS OMEGA, Journal Indexed in SCI-E, January 2021  
COMPUTATIONAL AND MATHEMATICAL METHODS IN MEDICINE, Journal Indexed in SCI-E, January 2021  
TEXTILE RESEARCH JOURNAL, Journal Indexed in SCI-E, January 2021  
MATHEMATICAL PROBLEMS IN ENGINEERING, Journal Indexed in SCI-E, January 2021  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, January 2021  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, Journal Indexed in ESCI, January 2021  
ENERGY REPORTS, Journal Indexed in SCI-E, January 2021  
IEEE TRANSACTIONS ON SYSTEMS MAN CYBERNETICS-SYSTEMS, Journal Indexed in SCI-E, January 2021  
IET INTELLIGENT TRANSPORT SYSTEMS, Journal Indexed in SCI-E, July 2020  
INFORMATION AND SOFTWARE TECHNOLOGY, Journal Indexed in SCI-E, June 2020  
SUSTAINABLE PRODUCTION AND CONSUMPTION, Journal Indexed in SCI-E, September 2019  
BALKAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, National Scientific Refreed Journal, January 2019  
ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, National Scientific Refreed Journal, January 2019  
JOURNAL OF COMPUTER SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, January 2019  
CYBERNETICS AND SYSTEMS, Journal Indexed in SCI-E, March 2018  
IET INFORMATION SECURITY, Journal Indexed in SCI-E, March 2018  
ADVANCES IN MECHANICAL ENGINEERING, Journal Indexed in SCI-E, January 2018  
ANNALS OF THE AMERICAN ASSOCIATION OF GEOGRAPHERS, Journal Indexed in SCI-E, January 2018  
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, Journal Indexed in SCI-E, January 2018  
BİLİŞİM TEKNOLOJİLERİ DERGİSİ, National Scientific Refreed Journal, January 2017  
INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, Journal Indexed in SCI-E, January 2017  
INTERNATIONAL JOURNAL OF DIGITAL EARTH, Journal Indexed in SCI-E, January 2016  
DATA MINING AND KNOWLEDGE DISCOVERY, Journal Indexed in SCI-E, January 2015  
MULTIDISCIPLINARY MODELING IN MATERIALS AND STRUCTURES, Journal Indexed in ESCI, January 2015  
COMPUTERS AND GEOTECHNICS, Journal Indexed in SCI-E, January 2011  
COMPUTATIONAL GEOSCIENCES, Journal Indexed in SCI-E, January 2009

## **Scientific Consultations**

Nucleo Araştırma Geliştirme Yaz. Don. San. ve Tic. Ltd. Şti., Project Consultancy, Dokuz Eylül University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2021 - 2022

BİMAR Bilgi İşlem Hizmetleri A.Ş., Project Consultancy, Dokuz Eylül University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2020 - 2021

Logo Yazılım San. Tic. A.Ş., Project Consultancy, Dokuz Eylül University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2018 - 2019

BİMAR Bilgi İşlem Hizmetleri A.Ş., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2018 - 2019

Siskon Endüstriyel Otomasyon Sistemleri Sanayi ve Ticaret A.Ş., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2018 - 2019

Siskon Endüstriyel Otomasyon Sistemleri Sanayi ve Ticaret A.Ş., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2017 - 2018

Cemametriks Yazılım Don. Danş. ve Tic. A.Ş., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2016 - 2017

Kentkart San.Tic.A.Ş., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2015 - 2016

MRD Bilişim Yazılım Ar-Ge Eğt. Danş. Yay. San. A.Ş., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2015 - 2015

Semafor Tekn. Yazl. Danş. Prj. San. Tic. Ltd. Şti., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2014 - 2015

OLGU Bilgisayar Sistemleri San. Tic. Ltd. Şti., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2013 - 2014

ÜNİBEL Özel Eğitim ve Bilgi Teknolojileri San. ve Tic. A.Ş., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2011 - 2013

OLGU Bilgisayar Sistemleri San. Tic. Ltd. Şti., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2011 - 2012

OLGU Bilgisayar Sistemleri San. Tic. Ltd. Şti., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2009 - 2011

NETSİS Yazılım San. Tic. A.Ş., Project Consultancy, Dokuz Eylul University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2008 - 2009

## Tasks In Event Organizations

Dalkılıç G., BİRANT D., Advances in Information Systems (ADVİS 2006), Scientific Congress, İzmir, Turkey, Ekim 2006

Birant D., New Information Technologies in Education (NİTE 2004), Scientific Congress, Turkey, Ekim 2004

Birant D., Advances in Information Systems (ADVİS 2002), Scientific Congress, Turkey, Ekim 2002

## Metrics

Publication: 136

Citation (WoS): 1205

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H-Index (WoS): 14

H-Index (Scopus): 16

## Congress and Symposium Activities

Bilgisayar Mühendisliği Bölüm Başkanları (BMBB) Toplantısı, Attendee, Burdur, Turkey, 2023

VII. International Battalgazi Scientific Studies Congress, Audience, Malatya, Turkey, 2022

Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation (INFUS 2021), Audience, İzmir, Turkey, 2021

3rd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA 2021), Audience, Ankara, Turkey, 2021

4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT 2020), Audience,

Ankara, Turkey, 2020  
2nd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA 2020), Audience, Ankara, Turkey, 2020  
Ulusal Yapay Zeka Stratejisi ve Yapay Zeka Enstitüsü Çalıştayı, Attendee, Ankara, Turkey, 2020  
Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı (ASYU 2019), Attendee, İzmir, Turkey, 2019  
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT 2019), Audience, Ankara, Turkey, 2019  
IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA 2019), Attendee, Sofija, Bulgaria, 2019  
3rd International Conference on Engineering Technology and Innovation (ICETI 2019), Audience, Belgrade, Serbia, 2019  
19. Türkiyede İnternet Konferansı (Inet-TR 2014), Attendee, İzmir, Turkey, 2014  
Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı (ASYU 2014), Attendee, İzmir, Turkey, 2014  
12th European Conference on e-Government (ECEG 2012), Attendee, Barcelona, Spain, 2012  
Bulut Bilişim ve İnovasyon, Audience, İstanbul, Turkey, 2011  
Recent Trends in Wireless and Mobile Networks (WIMO 2010), Attendee, Ankara, Turkey, 2010  
IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA 2010), Audience, Kayseri, Turkey, 2010  
Akademik Bilişim 2010, Attendee, Muğla, Turkey, 2010  
Yerel Yönetim Kamu Tedarik 2010 İkili Görüşmeleri, Attendee, Antalya, Turkey, 2010  
Innov8 V2.0 BPM Workshop, Audience, İstanbul, Turkey, 2010  
TBD 26. Ulusal Bilişim Kurultayı, Attendee, Ankara, Turkey, 2009  
IBM Yazılım Zirvesi 2009, Audience, İstanbul, Turkey, 2009  
28th International Conference on Information Technology Interfaces (ITI 2006), Attendee, Dubrovnik, Croatia, 2006  
Akademik Bilisim 2006 - Bilgi Teknolojileri Kongresi IV, Attendee, Denizli, Turkey, 2006  
Balkan Conference In Informatics, Audience, Ohrid, Macedonia, 2005  
CEBIT Bilisim Eurasia 2005, Audience, İstanbul, Turkey, 2005  
International Informatics Congress (Biltek 2005), Attendee, Eskişehir, Turkey, 2005  
Microsoft Academic Days 2005, Audience, İstanbul, Turkey, 2005  
Akademik Bilişim 2005, Attendee, Gaziantep, Turkey, 2005  
Yapı ve Kentte Bilişim'04 Kongresi, Attendee, Ankara, Turkey, 2004  
III. Bilgi Teknolojileri Kongresi, Attendee, Denizli, Turkey, 2004  
Turkish Symposium on Artificial Intelligent and Neural Network (TAINN 2004), Audience, İzmir, Turkey, 2004  
1. Ulusal Mühendislik Kongresi, Audience, İzmir, Turkey, 2004  
Microsoft Academic Days 2004, Audience, İstanbul, Turkey, 2004  
3rd Asian Pacific International Symposium on Information Technology (APIS 2004), Attendee, İstanbul, Turkey, 2004  
IX. Türkiye'de İnternet Konferansı (Inet-Tr 2003), Attendee, İstanbul, Turkey, 2003  
TBD 20. Bilişim Kurultayı Konferansı (Bilişim Zirvesi'03), Attendee, İstanbul, Turkey, 2003  
CEBIT Bilisim Eurasia 2003, Audience, İstanbul, Turkey, 2003  
Turkish Symposium on Artificial Intelligent and Neural Network (TAINN 2003), Attendee, Çanakkale, Turkey, 2003  
Microsoft,Net Yazılım Geliştiriciler Zirvesi, Audience, İstanbul, Turkey, 2003  
VIII. Türkiye'de İnternet Konferansı (Inet-Tr 2002), Attendee, İstanbul, Turkey, 2002  
CEBIT Bilisim Eurasia 2002, Audience, İstanbul, Turkey, 2002  
TBD 19. Bilişim Kurultayı Konferansı (Bilişim Zirvesi'02), Attendee, İstanbul, Turkey, 2002

## Awards

Birant D., Most Downloaded Article, Elsevier - Data & Knowledge Engineering, December 2013  
Birant D., Üstün Başarı Ödülü (Doktora), Dokuz Eylül Üniversitesi, October 2010  
Birant D., Bilgisayar Mühendisliği Bölüm İkincisi, Dokuz Eylül Üniversitesi, June 2000  
Birant D., Mühendislik Fakültesi İkincisi, Dokuz Eylül Üniversitesi, June 2000

## **Non Academic Experience**

Bimar A.Ş.

Siskon A.Ş.

Kentkart San.Tic.A.Ş.,

Cemametriks Yazılım Tic.A.Ş.

MRD Bilişim San.Tic.A.Ş.

Semafor San.Tic.Ltd.Şti.

Artı Seyahat San.Tic.A.Ş. (Sixt Rent a Car)

Vestel Ticaret A.Ş.

OLGU Bilgisayar Sistemleri San.Tic.Ltd.Şti.

ÜNİBEL San.Tic.A.Ş.

Akdeniz Kimya A.Ş.

Ege Üniversitesi Bilgisayar Mühendisliği Bölümü

NETSİS Yazılım San.Tic.A.Ş.

South Eastern European University