

## Assoc. Prof. METİN BİLGİN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-2049-2021

ScopusID: 57198185260

Yoksis Researcher ID: 256330

### Education Information

Post Doctorate, Uppsala Universitet (Uppsala University), Department of Linguistics and Philology, Computational Linguistics, Sweden 2019 - 2020

Undergraduate, Yalova University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2014 - 2015

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Bilgisayar Mühendisliği (Dr), Turkey 2011 - 2015

Postgraduate, Selcuk University, Institute Of Science, Elektronik Ve Bilgisayar Sistemleri Eğitimi (YI) (Tezli), Turkey 2005 - 2008

### Research Areas

Natural Language Processing, Text/Document Processing, Software Engineering

### Academic Titles / Tasks

Associate Professor, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2022 - Continues

Assistant Professor, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2018 - 2022

Assistant Professor, Bursa Technical University, Faculty Of Natural Sciences, Architecture And Engineering, Department Of Mechatronics Engineering, 2016 - 2018

### Courses

Doğal Dil İşleme, Postgraduate, 2021 - 2022

Veri Sıkıştırma ve Uygulamaları, Postgraduate, 2017 - 2018

Makine Öğrenmesi Teorisi ve Algoritmaları, Postgraduate, 2017 - 2018

Makine Öğrenmesine Giriş, Postgraduate, 2017 - 2018

Bilgi Sistemlerinin Analizi ve Tasarımı, Undergraduate, 2017 - 2018

Algoritma Analizi, Undergraduate, 2017 - 2018

Bilgisayar İşletim Sistemleri, Undergraduate, 2017 - 2018  
Anlamsal Web, Postgraduate, 2017 - 2018  
İşletim Sistemlerine Giriş, Undergraduate, 2017 - 2018  
Doğal Dil İşleme, Postgraduate, 2017 - 2018  
Yazılım Mühendisliği, Undergraduate, 2017 - 2018  
Programlama Dilleri, Undergraduate, 2016 - 2017  
Mekatronik Mühendisliği Uygulamalarında Yapay Zeka, Postgraduate, 2016 - 2017  
Software Engineering, Undergraduate, 2016 - 2017

## Advising Theses

Bilgin M., KÜMELEME ALGORİTMALARININ CPU VE GPU PERFORMANSLARININ ANALİZİ, Postgraduate, M.GÜLER(Student), 2022  
Bilgin M., MAKİNE ÇEVİRİSİ İLE TÜRKÇE SÖZEL İFADELERİN PYTHON SÖZDİZİMİNİN OLUŞTURULMASI, Postgraduate, M.BOZDEMİR(Student), 2022  
Bilgin M., GÖRSEL SORU CEVAPLAMA PROBLEMİNDE BAĞLAMSAL VEKTÖRLERİN PERFORMANS ANALİZİ, Postgraduate, Ö.HAKDAĞLI(Student), 2022  
Bilgin M., Derin öğrenme algoritmalarında eğitim örneklerini derecelendirmenin etkisinin araştırılması, Postgraduate, K.KARAKÖSE(Student), 2022  
BİLGİN M., Compatibility themed solution of the vehicle routing problem on the heterogeneous fleet, Postgraduate, N.Bulut(Student), 2020  
Bilgin M., Deep learning based transparent object detection, Postgraduate, K.MUTLUDOĞAN(Student), 2020

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

- I. **Compatibility Themed Solution of the Vehicle Routing Problem on the Heterogeneous Fleet**  
BİLGİN M., Bulut N.  
International Arab Journal of Information Technology, vol.19, no.5, pp.774-784, 2022 (SCI-Expanded)
- II. **Research on Behavior of Two New Random Entity Mobility Models in 3-D Space**  
BİLGİN M., ESER M.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.47, no.2, pp.1159-1171, 2022 (SCI-Expanded)
- III. **A New Approach to Automatically Find and Fix Erroneous Labels in Dependency Parsing Treebanks**  
BİLGİN M.  
INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY, vol.18, no.3, pp.356-364, 2021 (SCI-Expanded)
- IV. **Novel random models of entity mobility models and performance analysis of random entity mobility models**  
BİLGİN M.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.2, pp.708-726, 2020 (SCI-Expanded)
- V. **Sentiment Analysis with Term Weighting and Word Vectors**  
BİLGİN M., Koktas H.  
INTERNATIONAL ARAB JOURNAL OF INFORMATION TECHNOLOGY, vol.16, no.5, pp.953-959, 2019 (SCI-Expanded)
- VI. **Dependency parsing with stacked conditional random fields for Turkish Türkçe için ardışık şartlı rastgele alanlarla bağlılık ayırıştırma**  
Bilgin M., AMASYALI M. F.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.32, no.2, pp.385-392, 2017 (SCI-Expanded)
- VII. **Web based secure e-voting system with fingerprint authentication**  
Altun A. A., Bilgin M.

## Articles Published in Other Journals

- I. **Generation of Python syntax of Turkish verbal expressions with Deep Learning Approaches**  
Bilgin M., Bozdemir M.  
Selcuk University Journal of Engineering Sciences, vol.21, no.3, pp.105-110, 2022 (Peer-Reviewed Journal)
- II. **A new statistics-based approach to improve Word2Vec's sentiment classification success**  
Bilgin M.  
Selcuk University Journal of Engineering Sciences, vol.20, no.3, pp.63-72, 2021 (Peer-Reviewed Journal)
- III. **CLASSIFICATION OF TURKISH TWEETS BY DOCUMENT VECTORS AND INVESTIGATION OF THE EFFECTS OF PARAMETER CHANGES ON CLASSIFICATION SUCCESS**  
BİLGİN M.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.3, pp.1581-1592, 2020 (ESCI)
- IV. **Mobil Kitle Algılamada Mesaj Gecikme Zamanı Üzerine Bir Araştırma**  
BİLGİN M.  
Dokuz Eylül Üniversitesi Muhendislik Fakultesi Fen ve Muhendislik, vol.22, no.65, pp.393-400, 2020 (Peer-Reviewed Journal)
- V. **Danışmanlı ve yarı danışmanlı öğrenme kullanarak doküman vektörleri tabanlı tweetlerin duygu analizi**  
BİLGİN M., ŞENTÜRK İ. F.  
Journal of Balikesir University Institute of Science and Technology, vol.21, no.2, pp.822-839, 2019 (Peer-Reviewed Journal)
- VI. **Autonomous Photovoltaic Solar Cell Using Tracking System and Implementation**  
BİLGİN M., Çelebi K.  
International Journal of Electronics Mechanical and Mechatronics Engineering, vol.9, no.2, pp.1669-1676, 2019 (Peer-Reviewed Journal)
- VII. **Kelime Vektörü Yöntemlerinin Model Oluşturma Sürelerinin Karşılaştırılması**  
BİLGİN M.  
Bilişim Teknolojileri Dergisi, vol.12, no.2, pp.141-146, 2019 (Peer-Reviewed Journal)
- VIII. **Türkçe Metinlerin Sınıflandırma Başarısını Artırmak için Yeni Bir Yöntem Önerisi**  
BİLGİN M.  
Uludağ University Journal of The Faculty of Engineering, vol.24, no.1, pp.125-136, 2019 (Peer-Reviewed Journal)
- IX. **A Study on Named Entity Recognition with OpenNLP at English Texts**  
BİLGİN M.  
Journal of Applied Intelligent System, vol.4, no.1, pp.1-8, 2019 (Peer-Reviewed Journal)
- X. **Identification Vehicle Design and Transition of Traffic Signs with Image Processing Method**  
BİLGİN M., ZEYBEK Z.  
International Journal of Electronics, Mechanical and Mechatronics Engineering, vol.8, no.2, pp.1555-1569, 2018 (Peer-Reviewed Journal)
- XI. **Semantic Role Labeling with Relative Clauses**  
BİLGİN M., AMASYALI M. F.  
International Journal of Electronics, Mechanical and Mechatronics Engineering, vol.6, no.2, pp.1165-1175, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **KARAR AĞAÇLARI**

- Bilgin M., Eser M.  
in: DENETİMLİ MAKİNE ÖĞRENMESİ ALGORİTMALARI R VE PYTHON UYGULAMALARI, Melih Engin,Nuran Bayram Arlı,Sevda Gürsakal, Editor, Nobel Yayınevi, Ankara, pp.101-117, 2022
- II. **K - EN YAKIN KOMŞU (KNN)**  
Bilgin M., Eser M.  
in: DENETİMLİ MAKİNE ÖĞRENMESİ ALGORİTMALARI R VE PYTHON UYGULAMALARI, Melih Engin,Nuran Bayram Arlı,Sevda Gürsakal, Editor, Nobel Yayınevi, Ankara, pp.263-279, 2022
- III. **Makine Öğrenmesi: Teorisi ve Algoritmaları**  
BİLGİN M.  
Papatya, İstanbul, 2018
- IV. **C# ile Nesne Tabanlı Programlama**  
Bilgin M., Eser M.  
Kodlab, İstanbul, 2018
- V. **Network Connectivity and Data Quality in Crowd-Assisted Networks**  
Bilgin M., Şentürk İ. F.  
in: Crowd Assisted Networking and Computing, Al-Sakib Khan Pathan, Editor, CRC, New York , Florida, pp.137-159, 2018

## Refereed Congress / Symposium Publications in Proceedings

- I. **Türkçe Sözel İfadelerden Python Dilindeki Söz Dizimsel İfadenin Otomatik Üretilmesi**  
BİLGİN M., Bozdemir M.  
International Conference on Artificial Intelligence and Applied Mathematics in Engineering, Azerbaijan, 20 May 2022, pp.57
- II. **Detecting Transparency of Glasses with Capsule Networks Based on Deep Learning**  
Mutludoğan K., BİLGİN M.  
6 th International Conference on Computer Science and Engineering, Ankara, Turkey, 17 - 19 September 2021
- III. **A New Approach Based on Simulation of Annealing to Solution of Heterogeneous Fleet Vehicle Routing Problem**  
BİLGİN M., Bulut N.  
International Conference on Artificial Intelligence and Applied Mathematics in Engineering, Antalya, Turkey, 9 - 11 October 2020, pp.409-417
- IV. **American Sign Language Character Recognition with Capsule Networks**  
BİLGİN M., Mutludoğan K.  
2019 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, Turkey, 11 - 13 October 2019
- V. **Kanserli Hücrelerin Makine Öğrenmesi Yöntemleriyle Sınıflandırılması**  
BİLGİN M., ESER M., UTKU M.  
International Conference on Multidisciplinary Sciences, 15 - 16 December 2018, vol.1, pp.86-92
- VI. **Design And Implementation Of A Four AxisPrinter Robotic Arm**  
BİLGİN M., KARAAĞAÇ G., UTKU M.  
International Conference on Multidisciplinary Sciences, 15 - 16 December 2018, vol.3, pp.784-802
- VII. **Word2Vec Based Sentiment Analysis for Turkish Texts**  
BİLGİN M., KÖKTAŞ H.  
International Conference on Engineering Technologies, Turkey, 7 - 09 December 2017, pp.106-109
- VIII. **Sentiment analysis on Twitter data with semi-supervised Doc2Vec**  
BİLGİN M., ŞENTÜRK İ. F.  
2017 International Conference on Computer Science and Engineering (UBMK), Turkey, 5 - 08 October 2017, pp.661-666
- IX. **Gerçek Veri Setlerinde Klasik Makine Öğrenmesi Yöntemlerinin Performans Analizi**

BİLGİN M.

Akademik Bilişim, Aksaray, Turkey, 8 - 10 February 2017

X. **Bileşik Cümlelerde Yan Cümleciklerin Otomatik Etiketlenmesi**

BİLGİN M.

Bileşik Cümlelerde Yan Cümleciklerin Otomatik Etiketlenmesi, Aksaray, Turkey, 8 - 10 February 2016

XI. **Comparison of machine learning methods for the sequence labelling applications**

BİLGİN M., AMASYALI M. F.

Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Malatya, Turkey, 16 - 19 May 2015

XII. **Steganografi**

BİLGİN M.

XV. Akademik Bilişim Konferansı, Antalya, Turkey, 23 January 2013, vol.1, pp.125-128

XIII. **Biyometrik Tabanlı E-Seçim Sistemi**

BİLGİN M.

XV. Akademik Bilişim Konferansı, Antalya, Turkey, 23 January 2013, vol.1, pp.73-78

XIV. **Packet Tracer ile Ağ Simülasyonu Oluşturma**

BİLGİN M.

7. Uluslararası Bilgisayar ve Öğretim Teknolojileri Sempozyumu, Erzurum, Turkey, 06 June 2013, pp.35-36

XV. **Akış Diyagramları Oluşturmak için Flowchart Kullanımı**

BİLGİN M.

7. Uluslararası Bilgisayar ve Öğretim Teknolojileri Sempozyumu, Erzurum, Turkey, 06 June 2013, pp.37-38

XVI. **VMware ile Sunucu Sanallaştırma**

BİLGİN M.

7. Uluslararası Bilgisayar ve Öğretim Teknolojileri Sempozyumu, Erzurum, Turkey, 06 June 2013, pp.41-42

## Supported Projects

BİLGİN M., BOZDEMİR M., Project Supported by Higher Education Institutions, Türkçe sözel ifadelerden python dilindeki söz dizimsel ifadenin otomatik üretilmesi, 2022 - 2022

Bilgin M., TÜBİTAK - AB COST Project, Wearable Robots for Augmentation, Assistance or Substitution of Human Motor Functions, 2017 - 2021

Bilgin M., Şentürk İ. F., TUBİTAK Project, Hareketli Veri Taşıyıcıları İçin Hareket Yönetimi Ve Kontrolü, 2018 - 2020

## Patent

Bilgin M., GÜZERGAH BELİRLEME YÖNTEMİ, Patent, CHAPTER G Physics, The Invention Registration Number: 2019/14532 , Standard Registration, 2021

## Metrics

Publication: 39

Citation (WoS): 26

Citation (Scopus): 75

H-Index (WoS): 2

H-Index (Scopus): 5