

## Asst. Prof. ENGİN DEMİR

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: D-1116-2013

Yoksis Researcher ID: 20734

### Education Information

Doctorate, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2001 - 2009

Postgraduate, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 1999 - 2001

Undergraduate, Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Ve Enformatik Mühendisliği, Turkey 1995 - 1999

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Storage and Access Schemes for Aggregate Query Processing on Road Networks, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2009

Postgraduate, A Constraint-Based Incremental Approach for Update of Large Itemsets, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, 2001

### Research Areas

Geotechnical Engineering, Geographic Information Systems, Computer Sciences, algorithms, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2018 - Continues

Assistant Professor, Cankaya University, Faculty Of Engineering, Bilgisayar Mühendisliği, 2016 - 2018

Assistant Professor, University Of Turkish Aeronautical Association, Faculty Of Engineering, Bilgisayar Mühendisliği, 2013 - 2016

Assistant Professor, University Of Turkish Aeronautical Association, Faculty Of Engineering, Department Of Mechatronics

## Academic and Administrative Experience

Türk Hava Kurumu Üniversitesi, Bilgisayar Mühendisliği Bölümü, 2013 - 2016

## Advising Theses

Demir E., Spatio-temporal earthquake prediction with structural recurrent neural networks, Postgraduate, A.DOĞAN(Student), 2021

Demir E., Navigasyon sistemlerinde zamana bağlı engel modeli ile en iyi rota planlaması, Postgraduate, S.CANBOLAT(Student), 2019

Demir E., Placement of indicators and controls in the cockpit design based on checklist flow, Postgraduate, K.KÜRTEEN(Student), 2017

Demir E., Developing decision support system for merging supreme court decisions: Developing decision support system for merging supreme court decisions using expert systems, Postgraduate, A.GÜNEŞ(Student), 2016

Demir E., Küçükylmaz T., Time based electrical energy consumption model in Turkey using machine learning on news data, Postgraduate, H.KEÇELİ(Student), 2016

Demir E., Predicting flight delays with artificial neural networks : A case study in Esenboğa airport, Postgraduate, V.BURHAN(Student), 2016

Demir E., Determining pixel-based level of detail on hardware tessellated terrain rendering, Postgraduate, M.ÖMER(Student), 2016

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

- I. **Structural recurrent neural network models for earthquake prediction**  
Dogan A., DEMİR E.  
NEURAL COMPUTING & APPLICATIONS, vol.34, no.13, pp.11049-11062, 2022 (SCI-Expanded)
- II. **Efficient successor retrieval operations for aggregate query processing on clustered road networks**  
Demir E., Aykanat C.  
INFORMATION SCIENCES, vol.180, no.14, pp.2743-2762, 2010 (SCI-Expanded)
- III. **A link-based storage scheme for efficient aggregate query processing on clustered road networks**  
Demir E., Aykanat C., CAMBAZOGLU B. B.  
INFORMATION SYSTEMS, vol.35, no.1, pp.75-93, 2010 (SCI-Expanded)
- IV. **Clustering spatial networks for aggregate query processing: A hypergraph approach**  
Demir E., Aykanat C., Cambazoglu B. B.  
INFORMATION SYSTEMS, vol.33, no.1, pp.1-17, 2008 (SCI-Expanded)
- V. **Incremental cluster-based retrieval using compressed cluster-skipping inverted files**  
Altingovde I. S. , Demir E., Can F., Ulusoy O.  
ACM TRANSACTIONS ON INFORMATION SYSTEMS, vol.26, no.3, 2008 (SCI-Expanded)
- VI. **Efficiency and effectiveness of query processing in cluster-based retrieval**  
CAN F., ALTINGOVDE I. S. , Demir E.  
INFORMATION SYSTEMS, vol.29, no.8, pp.697-717, 2004 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Anomaly detection in location and trajectory datasets Konum ve rota veri kümelerinde tutarsizlik tespiti**

Datlica M. T. , DEMİR E.

29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021

**II. Detection of Duplicate Bug Reports in Jira and Bugzilla Tools**

Aldan C., DEMİR E.

14th Turkish National Software Engineering Symposium (UYMS), ELECTR NETWORK, 7 - 09 October 2020, pp.126-129

**III. Kokpit Tasarımında Gösterge ve Kontrollerin Akış Kontrolü Bazlı Yerleşimi**

Kürten K., Demir E.

7. Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı (USMOS), Ankara, Turkey, 21 November 2017, pp.496-507

**IV. Pixel-based level of detail on hardware tessellated terrain rendering**

ÖZEK M. Ö. , Demir E.

44th International Conference on Computer Graphics and Interactive Techniques, ACM SIGGRAPH 2017, California, United States Of America, 30 July - 03 August 2017

**V. Predicting Flight Delays with Artificial Neural Networks: Case Study of an Airport**

DEMİR E., Demir V. B.

25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

**VI. İctihat Birleştirme için Karar Destek Sistemi**

Demir E., Güneş A.

Proc. of International Conference on Computer Science and Engineering, Tekirdağ, Turkey, 20 October 2016, pp.481-487

**VII. Short text classification in twitter to improve information filtering**

SRIRAM B., FUHRY D., Demir E., FERHATOSMANOGLU H., DEMIRBAS M.

33rd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, SIGIR 2010, Geneva, Switzerland, 19 - 23 July 2010, pp.841-842

**VIII. Site-based dynamic pruning for query processing in search engines**

Altingovde I. S. , Demir E., Can F., Ulusoy Ö.

31st Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, ACM SIGIR 2008, Singapore, Singapore, 20 - 24 July 2008, pp.861-862

**IX. Constraint Based Update of Large Itemsets**

DEMİR E., ARKUN E.

Proc. of 16th International Symposium on Computer and Information Sciences (ISCIS), Antalya, Turkey, 14 November 2001, pp.105-112

## Metrics

Publication: 15

Citation (WoS): 316

Citation (Scopus): 496

H-Index (WoS): 5

H-Index (Scopus): 6