

## **Asst. Prof. Mustafa Utku KALAY**

### **Personal Information**

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### **International Researcher IDs**

ORCID: 0000-0002-8002-0268

Publons / Web Of Science ResearcherID: AAQ-4833-2020

Yoksis Researcher ID: 173882

### **Education**

Doctorate, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, Turkey Continues

University Of Southern California, Computer Science, Computer Science, Turkey Continues

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektronik-Haberleşme Bölümü, Turkey Continues

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, hareketli nesne veri tabanlarında modelleme ve erişim yapılarının tasarımı ve gerçekleştirilmesi, Yıldız Teknik Üniversitesi, Eef, Bilgisayar Muh, 2007

### **Research Areas**

Mathematics, Computer Science, Natural Sciences

### **Academic Positions**

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2001 - Continues

### **Academic and Administrative Experience**

Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2019 - Continues

Farabi Coordinator, Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, 2015 - Continues

## Courses

### Undergraduate

dosya duzenleme, Undergraduate, 2017 - 2018

veri tabani sistemleri, Undergraduate, 2017 - 2018

## Supervised Theses

KALAY M. U., Eğitimsel amaçlı VT sisteminin gerçekleştirimi, Postgraduate, A.YANATMA(Student), 2016

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **Novel approaches on bulk-loading of large scale spatial datasets**  
KALAY M. U.  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.9, 2022 (SCI-Expanded)
- II. **A Comparison Study of Moving Object Index Structures**  
Kalay M. U., KALIPSIZ O.  
JOURNAL OF COMPUTER SCIENCE AND TECHNOLOGY, vol.24, no.6, pp.1098-1108, 2009 (SCI-Expanded)
- III. **Probabilistic point queries over network-based movements**  
KALAY M. U., KALIPSIZ O.  
COMPUTER AND INFORMATION SCIENCES - ISCIS 2005, PROCEEDINGS, vol.3733, pp.823-832, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Uzamsal Verilerde İndeks Kullanımının Sorgu Verimliliği Üzerinde Etkileri**  
Özdeniz E., Kalay M. U.  
Academic Perspective Procedia, vol.5, no.3, pp.210-221, 2022 (Conference Book)
- II. **DATABASE SYSTEM SUGGESTIONS FOR THE INTERNET OF THINGS (IOT) SYSTEMS**  
KALAY M. U.  
Mugla Journal of Science and Technology, vol.4, no.1, pp.46-52, 2018 (Peer-Reviewed Journal)
- III. **MONPAR - A Page Replacement Algorithm for a Spatiotemporal Database**  
KALAY M. U., KALIPSIZ O.  
PROCEEDINGS OF WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY, VOL16, vol.16, pp.269-273, 1900 (Non Peer-Reviewed Journal)

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Extension for Workload Performance Measurement in an Educational Database System**  
KALAY M. U.  
Third International Conference on Trends in Computing and Information Technology (ICTCIT 2018), İstanbul, Turkey, 04 July 2018, vol.7, no.2, pp.12-21
- II. **Probabilistic point queries over network-based movements**  
Kalay U., kalipsiz O.  
20th International Symposium on Computer and Information Sciences, ISCIS 2005, İstanbul, Turkey, 26 - 28 October 2005, pp.823-832

## Metrics

Publication: 8

Citation (WoS): 1

Citation (Scopus): 3

H-Index (WoS): 1

H-Index (Scopus): 1

## Non Academic Experience

istanbul teknik universitesi EEF, arař.gör