

Assoc. Prof. ÖZLEM DURMAZ İNCEL

Personal Information

Email: odincel@gsu.edu.tr

Web: <https://avesis.gsu.edu.tr/odincel>

Education Information

Doctorate, Universiteit Twente, Bilgisayar Bilimleri, Netherlands 2005 - 2009

Postgraduate, Yeditepe University, Institute Of Science, Bilgisayar Mühendisliği (YI) (Tezli) (İngilizce), Turkey 2002 - 2005

Undergraduate, Yeditepe University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 1998 - 2002

Dissertations

Doctorate, Multi-Channel Wireless Sensor Networks: Protocols, Design and Evaluation , Universiteit Twente, Bilgisayar Bilimleri, 2009

Postgraduate, Reliable data delivery in wireless sensor networks (rewrite), Yeditepe Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli) (İngilizce), 2005

Research Areas

algorithms, Computer Networks, Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Associate Professor, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, 2017 - Continues

Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Computer Engineering, 2009 - 2012

Research Assistant, Universiteit Twente, Faculty Of Electrical Engineering, Mathematics And Computer Science, Computer Science, 2005 - 2009

Research Assistant, Yeditepe University, Faculty Of Engineering, Department Of Computer Engineering, 2002 - 2005

Academic and Administrative Experience

Galatasaray Üniversitesi, Mühendislik ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, 2017 - Continues

Advising Theses

DURMAZ İNCEL Ö., SMOKING RECOGNITION USING SMARTWATCH SENSORS, Postgraduate, S.AĞAÇ(Student), 2019

DURMAZ İNCEL Ö., Continuous authentication with behavioral biometrics on mobile devices, Postgraduate,

T.ÇATAKLI(Student), 2018

DURMAZ İNCEL Ö., Time series forecasting on solar radiation using deep learning, Postgraduate, M.CİHAN(Student), 2018

DURMAZ İNCEL Ö., A detailed analysis of human activity recognition using smartphone motion sensors, Postgraduate, B.SAYLAM(Student), 2017

DURMAZ İNCEL Ö., Semantic place prediction from mobile phone data, Postgraduate, S.CEREN(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Building Lightweight Deep learning Models with TensorFlow Lite for Human Activity Recognition on Mobile Devices**
Bursa S. Ö., Durmaz İncel Ö., Işıklar Alptekin G.
Annales des Telecommunications/Annals of Telecommunications, vol.78, no.11-12, pp.687-702, 2023 (SCI-Expanded)
- II. **Context-aware and dynamically adaptable activity recognition with smart watches: A case on**
Agac S., Shoaib M., DURMAZ İNCEL Ö.
COMPUTERS & ELECTRICAL ENGINEERING, vol.90, 2021 (SCI-Expanded)
- III. **DAKOTA: Sensor and Touch Screen-Based Continuous Authentication on a Mobile Banking Application**
Durmaz İncel Ö., Gunay S., Akan Y., Barlas Y., Basar O. E., Alptekin G., Isbilen M.
IEEE ACCESS, vol.9, pp.38943-38960, 2021 (SCI-Expanded)
- IV. **Smoking recognition with smartwatch sensors in different postures and impact of user's height**
Agac S., Shoaib M., DURMAZ İNCEL Ö.
JOURNAL OF AMBIENT INTELLIGENCE AND SMART ENVIRONMENTS, vol.12, no.3, pp.239-261, 2020 (SCI-Expanded)
- V. **Time series forecasting on multivariate solar radiation data using deep learning (LSTM)**
Sorkun M. C., DURMAZ İNCEL Ö., Paoli C.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.1, pp.211-223, 2020 (SCI-Expanded)
- VI. **Semantic place prediction from crowd-sensed mobile phone data**
Celik S. C., DURMAZ İNCEL Ö.
JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, vol.9, no.6, pp.2109-2124, 2018 (SCI-Expanded)
- VII. **QoS-Aware MAC protocols utilizing sectored antenna for wireless sensor networks-based smart grid applications**
Yigit M., DURMAZ İNCEL Ö., BAKTIR S., Gungor V. C.
INTERNATIONAL JOURNAL OF COMMUNICATION SYSTEMS, vol.30, no.7, 2017 (SCI-Expanded)
- VIII. **Dynamic BS Topology Management for Green Next Generation HetNets: An Urban Case Study**
Yigitel M. A., DURMAZ İNCEL Ö., ERSOY C.
IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, vol.34, no.12, pp.3482-3498, 2016 (SCI-Expanded)
- IX. **Countrywide arrhythmia: emergency event detection using mobile phone data**
Gundogdu D., DURMAZ İNCEL Ö., SALAH A. A., Lepri B.
EPJ DATA SCIENCE, vol.5, 2016 (SCI-Expanded)
- X. **Complex Human Activity Recognition Using Smartphone and Wrist-Worn Motion Sensors**
Shoaib M., Bosch S., DURMAZ İNCEL Ö., Scholten H., Havinga P. J. M.
SENSORS, vol.16, no.4, 2016 (SCI-Expanded)
- XI. **QoS vs. energy: A traffic-aware topology management scheme for green heterogeneous networks**
Yigitel M. A., DURMAZ İNCEL Ö., ERSOY C.
COMPUTER NETWORKS, vol.78, pp.130-139, 2015 (SCI-Expanded)
- XII. **A Survey of Online Activity Recognition Using Mobile Phones**
Shoaib M., Bosch S., DURMAZ İNCEL Ö., Scholten H., Havinga P. J. M.

- SENSORS, vol.15, no.1, pp.2059-2085, 2015 (SCI-Expanded)
- XIII. **On the interdependency between multi-channel scheduling and tree-based routing for WSNs in smart grid environments**
Yigit M., DURMAZ İNCEL Ö., Gungor V. C.
COMPUTER NETWORKS, vol.65, pp.1-20, 2014 (SCI-Expanded)
- XIV. **Multimodal Wireless Sensor Network-Based Ambient Assisted Living in Real Homes with Multiple Residents**
Tunca C., Alemdar H., Ertan H., DURMAZ İNCEL Ö., ERSOY C.
SENSORS, vol.14, no.6, pp.9692-9719, 2014 (SCI-Expanded)
- XV. **Fusion of Smartphone Motion Sensors for Physical Activity Recognition**
Shoaib M., Bosch S., DURMAZ İNCEL Ö., Scholten H., Havinga P. J. M.
SENSORS, vol.14, no.6, pp.10146-10176, 2014 (SCI-Expanded)
- XVI. **Dynamic base station planning with power adaptation for green wireless cellular networks**
Yigitel M. A., DURMAZ İNCEL Ö., ERSOY C.
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING, 2014 (SCI-Expanded)
- XVII. **Fuzzy-based congestion control for wireless multimedia sensor networks**
Sonmez C., DURMAZ İNCEL Ö., Isik S., Donmez M. Y., ERSOY C.
EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING, 2014 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Mobile Device Identification via User Behavior Analysis**
Durmaz İncel Ö., Doğan K.
International Conference on Big Data Innovations and Applications, İstanbul, Turkey, 26 - 28 August 2019, pp.32-46
- II. **Smokesense: Online activity recognition framework on smartwatches**
Shoaib M., Incel Ö., Scholten H., Havinga P.
9th EAI International Conference on Mobile Computing, Applications, and Services, MobiCASE 2018, Osaka, Japan, 28 February - 02 March 2018, vol.240, pp.106-124
- III. **Resource Consumption Analysis of Online Activity Recognition on Mobile Phones and Smartwatches**
Shoaib M., DURMAZ İNCEL Ö., Scolten H., Havinga P.
36th IEEE International Performance, Computing, and Communications Conference (IPCCC), California, United States Of America, 10 - 12 December 2017
- IV. **Time Series Forecasting on Solar Irradiation using Deep Learning**
Sorkun M. C., Paoli C., DURMAZ İNCEL Ö.
10th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 30 November - 02 December 2017, pp.151-155
- V. **A Hierarchical Lazy Smoking Detection Algorithm Using Smartwatch Sensors**
Shoaib M., Scholten H., Havinga P. J. M., DURMAZ İNCEL Ö.
18th IEEE International Conference on e-Health Networking, Applications and Services (Healthcom), Munich, Germany, 14 - 16 September 2016, pp.111-116
- VI. **Feature Engineering for Activity lRecognition from Wrist-worn Motion Sensors**
Konak S., Turan F., Shoaib M., DURMAZ İNCEL Ö.
6th International Joint Conference on Pervasive and Embedded Computing and Communication Systems (PECCS), Lisbon, Portugal, 25 - 27 July 2016, pp.76-84
- VII. **Resource Usage Analysis of a Sensor-Based Mobile Augmented Reality Application**
Karaman A., Erisik D., DURMAZ İNCEL Ö., Alptekin G. I.
7th International Conference on Ambient Systems, Networks and Technologies (ANT) / 6th International Conference on Sustainable Energy Information Technology (SEIT), Madrid, Spain, 23 - 26 May 2016, vol.83, pp.300-304

VIII. DESIGN OF SENSOR-BASED AUGMENTED REALITY SOFTWARE (SARAS)

Erisik D., Karaman A., Alptekin G. I., DURMAZ İNCEL Ö., Burcak O., Isbilen M.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2218-2221

IX. Phone Position/Placement Detection using Accelerometer: Impact on Activity Recognition

Coskun D., DURMAZ İNCEL Ö., Ozgovde A.

2015 IEEE Tenth Int Conference on Intelligent Sensors Sensor Networks & Information Proc (IISNIP), Singapore, Singapore, 7 - 09 April 2015

X. Towards Detection of Bad Habits by Fusing Smartphone and Smartwatch Sensors

Shoaib M., Bosch S., Scholten H., Havinga P. J. M., DURMAZ İNCEL Ö.

IEEE International Conference on Pervasive Computing and Communication Workshops PerCom Workshops, Missouri, United States Of America, 23 - 27 March 2015, pp.591-596

XI. Mobil İletişim Verisi Kullanarak Topluluk Bulma Konusuna Genel Bakış ve Yöntemler

ARINIK N., DURMAZ İNCEL Ö., ORMAN K.

17. Akademik Bilişim 2015 (AB2015), Turkey, 06 February 2015

XII. POSITION-AWARE ACTIVITY RECOGNITION ON MOBILE PHONES

Coskun D., DURMAZ İNCEL Ö., Ozgovde A.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1930-1933

Supported Projects

DURMAZ İNCEL Ö., ALPTEKİN G., Project Supported by Higher Education Institutions, MOBİL VE GİYİLEBİLİR CİHAZLARDA VERİMLİ KAYNAK YÖNETİMİ, 2017 - 2021

DURMAZ İNCEL Ö., Project Supported by Higher Education Institutions, MOBİL ALGILAYICI VERİSİ İLE BAĞLAM TANIMA, 2015 - 2017

DURMAZ İNCEL Ö., Project Supported by Higher Education Institutions, AKILLI TELEFONLAR ÜZERİNDE EYLEM TANIMA İÇİN SINIFLANDIRMA YÖNTEMLERİNİN BAŞARIM DEĞERLENDİRMESİ, 2013 - 2015

Metrics

Publication: 30

Citation (WoS): 732

Citation (Scopus): 976

H-Index (WoS): 9

H-Index (Scopus): 12