



## Asst. Prof. ÖZGÜN PINARER

### Personal Information

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### International Researcher IDs

ScholarID: s0jOxwMAAAAJ

ORCID: 0000-0002-0280-3689

Publons / Web Of Science ResearcherID: V-6254-2018

ScopusID: 55308248900

Yoksis Researcher ID: 207306

### Education Information

2015 - 2017	Doctorate, Institut National des Sciences Appliquées (I.N.S.A.) de Lyon, Informatique, France
2010 - 2012	Postgraduate, Galatasaray University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Y) (Tezli), Turkey
2006 - 2010	Undergraduate, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey

### Foreign Languages

French, B2 Upper Intermediate Italian, A1 Beginner English, B2 Upper Intermediate

### Dissertations

2017	Sustainable Declarative Monitoring Architecture: Energy optimisation of interactions between application service oriented queries and wireless sensor devices: Smart Building Applications, Institut National Des Sciences Appliquées (I.N.S.A.) De Lyon, Informatique, Doctorate
2012	Application specific energy performance enhancement in wireless body area networks, Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Y) (Tezli), Postgraduate

### Research Areas

Computer Sciences, Computer Networks, Communications and Network Protocols, bioinformatics

### Academic Titles / Tasks

2020 - Continues	Assistant Professor, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi
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2010 - 2020

Research Assistant, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi

## Academic and Administrative Experience

2024 - Continues

Deputy Head of Department, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi

2020 - Continues

Director of the Center, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi

2022 - 2023

Assistant Director of the Institute, Galatasaray University, Fen Bilimleri Enstitüsü

## Courses

2022 - 2023

Automates et théorié des langages, Undergraduate

2023 - 2024

Internet of Things, Postgraduate

2022 - 2023

Entrepreneuriat, Undergraduate

2023 - 2024

Mathématiques discrètes, Undergraduate

2023 - 2024

Introduction to Internet of Things, Undergraduate

2021 - 2022

Internet of Things, Postgraduate

2021 - 2022

IoT, Postgraduate

2021 - 2022

IoT and Industry 4.0, Postgraduate

2020 - 2021

Discrete mathematiques, Undergraduate

2019 - 2020

Introduction to Web Programming, Undergraduate

2019 - 2020

Algorithms and Data Structures, Undergraduate

2018 - 2019

Algorithmique et structures de données, Undergraduate

2018 - 2019

Introduction à la Programmation Web, Undergraduate

## Advising Theses

2025

Pinarer Ö., Postgraduate, M.BERKAY(Student), Container migration approach for IoT based edge-cloud systems

2025

Pinarer Ö., Postgraduate, Ö.ZÜNGÖR(Student), User Request Driven Smart Data Aggregation in IoT

2024

Pinarer Ö., Postgraduate, H.ALİ(Student), Emotion recognition using wireless signals

2022

Pinarer Ö., Postgraduate, M.SİROPYAN(Student), Smart Farming Applications

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

### I. Application-Aware Dynamic Energy Management for Portable Devices

PINARER Ö., Ozgovde A.

COMPUTER, vol.52, no.11, pp.62-72, 2019 (SCI-Expanded)

### II. Dynamic energy-aware sensor configuration in multi-application monitoring systems

Pinarer O., Gripay Y., Servigne S., Ozgovde A., Baskurt A.

PERVASIVE AND MOBILE COMPUTING, vol.41, pp.192-204, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Framework for Heterogeneous Sensor Data Stream Management with BIM and WSN**  
PINARER Ö.  
Gazi University Journal of Science, vol.36, no.3, pp.1082-1094, 2023 (ESCI)
- II. **Analyzing the Relationship Between Air Pollution, Tobacco Use with Lung Diseases via Data Engineering Approach**  
PINARER Ö.  
TURKISH THORACIC JOURNAL, vol.22, no.4, pp.289-296, 2021 (ESCI)
- III. **Real-Time Smart Building Management System Prototype with Wireless Sensor Network Integration with Building Information Modeling**  
Pınarer Ö.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.10, no.1, pp.207-2016, 2021 (Peer-Reviewed Journal)
- IV. **COVID-19 Pandemic and the Global Perspective of Turkish Thoracic Society**  
KÖKTÜRK N., İtil B. O., Altınisik G., Adıgüzel N., AKGÜN M., Akyıldız L., Altın S., Arıkan H., Ates G., Ay P., et al.  
TURKISH THORACIC JOURNAL, vol.21, no.6, pp.419-432, 2020 (ESCI)
- V. **Improving the Energy Efficiency of Wearable Computing Units Using on Sensor Fifo Memory**  
PINARER Ö., ÖZGÖVDE B. A.  
International Journal of e-Education, e-Business, e-Management and e-Learning, vol.5, no.2, pp.105-113, 2015 (Peer-Reviewed Journal)
- VI. **Wireless health monitoring for multiple patients on android phone with embedded computation**  
PINARER Ö., Parmaksız A., İbrahim A., ARSLAN R. B., ÖZGÖVDE B. A.  
Biomedical Engineering, vol.9, no.1, pp.569, 2012 (Scopus)

## **Books & Book Chapters**

- I. **Vertical Farming: Under Climate Change Effect**  
NASKALI A. T., PINARER Ö., TOLGA A. Ç.  
in: Environment and Climate-smart Food Production, Charis M. Galanakis, Editor, Springer, pp.259-284, 2022
- II. **Blokszincir Teknolojisi: Araştırma Alanlarının İncelenmesi**  
PINARER Ö.  
in: Mühendislikte Güncel Konular, Hameş Yakup, Editor, NOBEL Akademik Yayıncılık, pp.31-50, 2018

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Real-Time Heart Rate Monitoring via Wi-Fi Signal**  
Solgun H. A., Özcan A., PINARER Ö.  
2023 IEEE International Conference on Big Data, BigData 2023, Sorrento, Italy, 15 - 18 December 2023, pp.4973-4978
- II. **Artificial Intelligence driven Vertical Farming Management System**  
Siropyan M., Celikel O., Pınarer Ö.  
29th World Congress on Engineering (WCE 2022) , 6 - 08 July 2022, pp.108-113
- III. **3D Mesh Model Generation from CT and MRI data**  
Koc C., PINARER Ö., TURHAN S. N.  
2021 IEEE International Conference on Big Data, Atalanta, United States Of America, 15 - 18 December 2021, vol.1, pp.4725-4730
- IV. **Pandemic Effect: Degradation of Speech Reception Due to Medical Masks**  
Pınarer Ö., Turhan S. N.  
2020 IEEE International Conference on Big Data (Big Data), Georgia, United States Of America, 10 - 13 December 2020, pp.1-7
- V. **Detecting Transistor Defects in Medical Systems Using a Multi Model Ensemble of Convolutional**

## **Neural Networks**

Kocak H. M., NASKALI A. T., PINARER Ö., Mitard J.

2021 IEEE International Conference on Big Data, Big Data 2021, Virtual, Online, United States Of America, 15 - 18 December 2021, pp.4731-4737

- VI. **Respiratory Rate Prediction Algorithm based on Pulse Oximeter**  
Cetinkaya N., Turhan S. N., PINARER Ö.  
2021 IEEE International Conference on Big Data, Big Data 2021, Virtual, Online, United States Of America, 15 - 18 December 2021, pp.4652-4658
- VII. **Regional Analysis of Death Rate due to Air Pollution in Turkey and its Neighbors**  
Karazag Y. E., Turhan S. N., PINARER Ö., NASKALI A. T.  
2019 IEEE International Conference on Big Data, Big Data 2019, California, United States Of America, 9 - 12 December 2019, pp.2746-2755
- VIII. **Data Similarity Analysis on Air Pollution Data Hava Kirliliği Verisi Üzerinde Veri Benzerliği İncelemesi**  
Karazag Y. E., Akturk I., Turhan S. N., PINARER Ö.  
2019 Innovations in Intelligent Systems and Applications Conference, ASYU 2019, İzmir, Turkey, 31 October - 02 November 2019
- IX. **Query Performance Evaluation over Health Data**  
Turhan S. N., Pinarer Ö.  
11th International Conference e-Health 2019, Porto, Portugal, 17 - 19 July 2019, pp.1
- X. **Web Service Solution for Adverse Drug Events and Medication Errors**  
Pinarer Ö., Turhan S. N.  
2018 IEEE International Conference on Big Data, Big Data 2018, Washington, United States Of America, 10 - 13 December 2018, pp.2449-2452
- XI. **Designing a novel smart home monitoring system with the integration of BIM and WSN**  
Corekci M., PINARER Ö., Servigne S.  
12th International Conference on ICT, Society and Human Beings, ICT 2019, 5th International Conference on Connected Smart Cities, CSC 2019 and the 16th International Conference on Web Based Communities and Social Media, WBC 2019, Porto, Portugal, 17 - 19 July 2019, pp.184-190
- XII. **Query performance evaluation over health data**  
Turhan S., PINARER Ö.  
11th International Conference on e-Health 2019, EH 2019, Porto, Portugal, 17 - 19 July 2019, pp.101-108
- XIII. **Merkezi Sterilizasyon Üniteleri<sup>3</sup> letimi için Akll SistemModellemesi**  
TURHAN S. N., PINARER Ö., FINDIK A.  
Akıllı Sistemlerde Yenilik ve Uygulamaları Konferansı ASYU 2017, Turkey, 5 - 07 October 2017
- XIV. **Laser Barcode-based Surgical Instrument Tracking System**  
Findik A., PINARER Ö., Turhan S.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XV. **HETEROGENEOUS SENSOR DATA EXPLORATION AND SUSTAINABLE DECLARATIVE MONITORING ARCHITECTURE: APPLICATION TO SMART BUILDING**  
Servigne S., Gripay Y., Pinarer O., Samuel J., Ozgovde A., Jay J.  
1st International Conference on Smart Data and Smart Cities, Split, Croatia, 7 - 09 September 2016, pp.97-104
- XVI. **Energy Enhancement of Multi-application Monitoring Systems for Smart Buildings**  
Pinarer O., Gripay Y., Servigne S., Ozgovde A.  
28th International Conference on Advanced Information Systems Engineering (CAiSE), Ljubljana, Slovenia, 13 - 17 June 2016, vol.249, pp.131-142
- XVII. **Real-Time Multi-Application based Sensor Flux Management**  
Pinarer O., Gripay Y., Servigne S., Ozgovde A.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.765-768
- XVIII. **APPLICATION SPECIFIC DYNAMIC SLEEP SCHEDULING**

PINARER Ö., Ozgovde A.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1765-1768

**XIX. CHARACTERIZATION OF MOBILE APPLICATIONS ACCORDING TO THEIR ENERGY CONSUMPTIONS**

PINARER Ö., Ozgovde A.

22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1995-1998

**XX. Energy aware activity level monitoring with accelerometers**

PINARER Ö., ARSLAN R. B., ÖZGÖVDE B. A.

16th National Biomedical Engineering Meeting (BIYOMUT2012), Turkey, 3 - 05 October 2012

**XXI. Wireless health monitoring of multiple patients on android phone with embedded computation**

PINARER Ö., Parmaksiz A., Avci I., Arslan B., Ozgovde A.

9th IASTED International Conference on Biomedical Engineering, BioMed 2012, Innsbruck, Austria, 15 - 17 February 2012, pp.569-573

**XXII. Wireless monitoring of health data via an open platform**

PINARER Ö., ARSLAN R. B., ÖZGÖVDE B. A.

15th National Biomedical Engineering Meeting (BIYOMUT2011), Turkey, 13 - 16 October 2011

**XXIII. Extending the wireless monitoring period for e health applications**

PINARER Ö., ARSLAN R. B., ÖZGÖVDE B. A.

Akademik Bilisim AB'11, Turkey, 2 - 04 February 2011

## Activities in Scientific Journals

2017 - Continues	Pervasive and Mobile Computing, Evaluation Committee Member
2017 - Continues	International Journal of Agricultural and Environmental Information Systems (JAEIS), Evaluation Committee Member

## Scientific Refereeing

May 2020	TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Galatasaray University, Turkey
January 2020	International Journal of Digital Innovation in the Built Environment (JDIBE), Other Indexed Journal
December 2017	PERVASIVE AND MOBILE COMPUTING, SCI Journal
December 2017	International Journal of Agricultural and Environmental Information Systems (JAEIS) Editors-in-Chief: Petraq Papajorgji (Canadian Institute of T, Journal Indexed in ESCI

## Metrics

Publication: 33  
Citation (WoS): 16  
Citation (Scopus): 29  
H-Index (WoS): 2  
H-Index (Scopus): 3

## Non Academic Experience

2012 - 2014	Grenoble 1 Université joseph fourier
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