

## Asst. Prof. FAHRİ SERHAN DANIŞ

### Personal Information

**Email:** [sdanis@gsu.edu.tr](mailto:sdanis@gsu.edu.tr)

**Web:** <https://avesis.gsu.edu.tr/sdanis>

### International Researcher IDs

ScholarID: 30FWVmMAAAAJ

ORCID: 0000-0002-8813-9220

Publons / Web Of Science ResearcherID: AAA-4477-2020

ScopusID: 57212668509

Yoksis Researcher ID: 133022

### Education Information

Doctorate, Bogazici University, Institute Of Science, Bilgisayar Mühendisliği (Dr), Turkey 2009 - 2021

Postgraduate, Bogazici University, Institute Of Science, Department Of System And Control Engineering (Interdisciplinary), Turkey 2006 - 2009

Undergraduate, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2001 - 2006

### Foreign Languages

English, C1 Advanced

French, B2 Upper Intermediate

### Dissertations

Doctorate, SEQUENTIAL MONTE CARLO LOCALIZATION USING BLUETOOTH LOW-ENERGY BEACONS, Bogazici University, Institute Of Science, Computer Engineering, 2021

Postgraduate, DEVELOPMENT OF A MULTI-SENSORED AUTONOMOUS GROUND VEHICLE, Bogazici University, Institute Of Science, Department Of System And Control Engineering (Interdisciplinary), 2009

### Research Areas

Robotics and Mechatronics Systems, Smart Factors, Simulation and Modelling, Distributed Systems, Parallel Algorithms, Augmented Reality, Uncertainty Management, Computer Learning, Pattern Recognition and Image Processing, Neural Networks, Operating Systems, Programming Languages

### Academic Titles / Tasks

Assistant Professor, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi, 2022 - Continues

Research Assistant PhD, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisligi, 2008 - 2022

## Academic and Administrative Experience

Deputy Head of Department, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği, 2022 - 2025

## Courses

Signals and Systems, Undergraduate, 2022 - 2023

Operating Systems, Undergraduate, 2021 - 2022

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

- I. **Probabilistic indoor tracking of Bluetooth Low-Energy beacons**  
DANIŞ F. S., ERSOY C., CEMGİL A. T.  
Performance Evaluation, vol.162, 2023 (SCI-Expanded)
- II. **An indoor localization dataset and data collection framework with high precision position annotation**  
DANIŞ F. S., NASKALI A. T., CEMGİL A. T., ERSOY C.  
Pervasive and Mobile Computing, vol.81, 2022 (SCI-Expanded)
- III. **Adaptive Sequential Monte Carlo Filter for Indoor Positioning and Tracking with Bluetooth Low Energy Beacons**  
Danis F. S., CEMGİL A. T., ERSOY C.  
IEEE Access, vol.9, pp.37022-37038, 2021 (SCI-Expanded)
- IV. **Model-Based Localization and Tracking Using Bluetooth Low-Energy Beacons**  
Danis F. S., CEMGİL A. T.  
SENSORS, vol.17, no.11, 2017 (SCI-Expanded)
- V. **Framework for development of driver adaptive warning and assistance systems that will be triggered by a driver inattention monitor**  
Aytekin B., Dincmen E., Guevenc B. A., Altuğ E., Guevenc L., Danis S., ACARMAN T., Sezer V., Ararat O., Oencue S.  
International Journal of Vehicle Design, vol.52, pp.20-37, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Practical and Parameterized Fingerprinting Through Maximal Filtering for Indoor Positioning**  
Danış F. S.  
IEEE Journal of Indoor and Seamless Positioning and Navigation, vol.1, pp.199-210, 2023 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Using Saliency-Based Visual Attention Methods for Achieving Illumination Invariance in Robot Soccer**  
DANIŞ F. S., MERİÇLİ T., AKIN H. L.  
in: RoboCup 2012 Robot Soccer World Cup XVI Lecture Notes in Computer Science, Chen Xiaoping, Stone Peter, Sucar Luis Enrique, van der Zant Tijn, Editor, Springer Berlin Heidelberg, pp.273-285, 2013
- II. **Robot Detection with a Cascade of Boosted Classifiers Based on Haar-Like Features**  
DANIŞ F. S., MERİÇLİ T., MERİÇLİ Ç., AKIN H. L.  
in: RoboCup 2010 Robot Soccer World Cup XIV Volume 6556 of the series Lecture Notes in Computer Science, Ruiz-del-Solar Javier, Chown Eric, G. Plöger Paul, Editor, Springer Berlin Heidelberg, pp.409-417, 2011

### III. Real-World Data Collection with "UYANIK"

ABUT H., ERDOĞAN H., ERÇİL F. A., ÇÜRÜKLÜ B., KOMAN H. C., TAŞ F., ARGUNŞAH A. Ö., COŞAR S., AKAN B., KARABALKAN H., et al.

in: In Vehicle Corpus and Signal Processing for Driver Behavior, Takeda Kazuya, Erdogan Hakan, Hansen John H. L., Abut Huseyin, Editor, Springer US, pp.23-43, 2009

## Refereed Congress / Symposium Publications in Proceedings

- I. **Extracting Relations Between Sectors**  
Kara A., DANIŞ F. S., ORMAN G. K., TURHAN S. N.  
9th IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT2022), Vancouver, Washington, United States Of America, 6 - 09 December 2022, pp.77-82
- II. **Extracting Relations Between Sectors**  
Kara A., Daniş F. S., Orman G. K., Turhan S. N.  
2022 IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT), Washington, United States Of America, 06 December 2022, pp.77-82
- III. **Live RSSI Filtering for Indoor Positioning with Bluetooth Low-Energy**  
Daniş F. S.  
2022 IEEE 12th International Conference on Indoor Positioning and Indoor Navigation (IPIN), Beijing, China, 5 - 08 September 2022, pp.1-8
- IV. **Tracking a Mobile Beacon: A Purely Probabilistic Approach**  
Danis F. S., Ersoy C., Cemgil A. T.  
2022 30th International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS), Nice, France, 10 October 2022, pp.160-167
- V. **Similarity-Based Résumé Matching via Triplet Loss with BERT Models**  
Özlu Ö. A., Orman G. K., Daniş F. S., Turhan S. N., Kara K. C., Yücel T. A.  
IntelliSys 2022: Intelligent Systems and Applications, Amsterdam, Netherlands, 1 - 02 September 2022, vol.544, pp.520-532
- VI. **Job Recommendation Based on Extracted Skill Embeddings**  
Kara A., Daniş F. S., Orman G. K., Turhan S. N., Özlu Ö. A.  
IntelliSys 2022: Intelligent Systems and Applications, Amsterdam, Netherlands, 1 - 02 September 2022, pp.497-507
- VII. **Salary Prediction via Sectoral Features in Turkey**  
Ozer Ş. D. İ., Ulke B., Daniş F. S., Orman G. K.  
2022 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), 8 - 12 August 2022, pp.1-6
- VIII. **Determining Column Numbers in Résumés with Clustering**  
Keskin Ş. R., Balı Y., Orman G. K., Daniş F. S., Turhan S. N.  
18th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2022, Hersonissos, Greece, 17 - 20 June 2022, vol.647 IFIP, pp.460-471
- IX. **Determination and Regression Modelling of AISI-430 Quality Stainless Steel Production Heat Treatment Standard Limits**  
GÜRAYDIN B., EKİCİ H., AY O., DANIŞ F. S., DİNÇER İ. C.  
9th International Advanced Technologies Symposium (IATS'21), Turkey, 27 October 2021
- X. **Investigation of Mechanical Properties of AISI 304 Quality Stainless Steel, Connected to Cold Deformation Rate, Phase Quantity and Heat Treatment Processes**  
Ay o., ekici h., GÜRAYDIN B., güler e., DANIŞ F. S., ORMAN K.  
International Steel Rolling Symposium (ISRS 2021), Hatay, Turkey, 23 September 2021
- XI. **Radio map estimation with neural networks and active learning for indoor localization**  
Güler S., DANIŞ F. S., Cemgil A. T.  
Short Paper of the 10th International Conference on Indoor Positioning and Indoor Navigation - Work-in-Progress

Papers, IPIN-WiP 2019, Pisa, Italy, 30 September - 03 October 2019, vol.2498, pp.25-31

**XII. Feature Selection For Depth Estimation in 2D Images on an Autonomous Ground Vehicle**

DANIŞ F. S., AKIN H. L.

Climbing and Walking Robots and the Support Technologies for Mobile Machines, 9 - 11 September 2009, pp.82-89

**XIII. Test-bed formation for human driver model development and decision making**

ACARMAN T., Özgüner Ü., Güvenç L., Liu Y., DANIŞ F. S.

10th International IEEE Conference on Intelligent Transportation Systems, ITSC 2007, Seattle, WA, United States Of America, 30 September - 03 October 2007, pp.934-939

**XIV. Data Collection with UYANIK Too Much Pain But Gains are Coming**

Abut H., Erdogan H., Ercil A., Cuerueklue B., Koman H. C., Tas F., Argunsah A. O., Cosar S., Akan B., Karabalkan H., et al.

Biennial on DSP for In-Vehicle and Mobile Systems, 3 - 05 July 2007

## Supported Projects

DANIŞ F. S., Project Supported by Higher Education Institutions, Olasılıksal Makina Öğrenmesi Teknikleri ile İç Ortam Konumlama ve Takip Algoritmaları Geliştirilmesi, 2022 - 2023

## Scientific Refereeing

CANADIAN JOURNAL OF CIVIL ENGINEERING, Journal Indexed in SCI-E, September 2022

IEEE INTERNET OF THINGS JOURNAL, Journal Indexed in SCI-E, November 2019

IEEE INTERNET OF THINGS JOURNAL, Journal Indexed in SCI-E, August 2019

IEEE INTERNET OF THINGS JOURNAL, Journal Indexed in SCI-E, July 2019

IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, Journal Indexed in SCI-E, January 2019

IEEE INTERNET OF THINGS JOURNAL, Journal Indexed in SCI-E, July 2018

INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, Journal Indexed in SCI-E, May 2018

INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, Journal Indexed in SCI-E, January 2018

## Metrics

Publication: 23

Citation (WoS): 57

Citation (Scopus): 109

H-Index (WoS): 3

H-Index (Scopus): 4

## Non Academic Experience

Université Gustave Eiffel

Kariyer.net

WeWalk

ARIKOVANI YAZILIM ARAŞTIRMA GELİŞTİRME MÜHENDİSLİK SAN. VE DIŞ TİC. A.Ş. (POILABS)

ARIKOVANI YAZILIM ARAŞTIRMA GELİŞTİRME MÜHENDİSLİK SAN. VE DIŞ TİC. A.Ş. (POILABS)

Boğaziçi Üniversitesi Bilgisayar Mühendisliği

Boğaziçi Üniversitesi Bilgisayar Mühendisliği

İstanbul Teknik Üniversitesi - Mekatronik Araştırmaları Laboratuvarları