

**Res. Asst. PhD REFİKA SULTAN  
DOĞAN**



**Personal Information**

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**International Researcher IDs**

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Publons / Web Of Science ResearcherID: AAH-4098-2021

ScopusID: 57206480069

Yoksis Researcher ID: 316789



**Education Information**

Doctorate, Abdullah Gul University, Fen Bilimleri Enstitüsü, Bioengineering, Turkey 2020 - 2023

Doctorate, Abdullah Gul University, Fen Bilimleri Enstitüsü, Electric and Computer Engineering , Turkey 2018 - 2020

Undergraduate, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği , Turkey 2014 - 2017

**Dissertations**

Doctorate, Artificial Intelligence-Assisted Prognostic Marker Detection from Colonoscopy and Histopathology Images for Colon Polyps, Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2023

**Research Areas**

Computer Vision, Computer Learning, Pattern Recognition and Image Processing, Biomedical Image Processing

**Academic Titles / Tasks**

Research Assistant, Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik, 2020 - Continues

**Courses**

Biomedical Image Processing, Undergraduate, 2024 - 2025

INTRODUCTION TO PROGRAMMING, Undergraduate, 2021 - 2022

General Chemistry Laboratory, Undergraduate, 2021 - 2022, 2020 - 2021

General Biology Laboratory, Undergraduate, 2020 - 2021

AGU Global Courses: AGU WAYS, Undergraduate, 2020 - 2021

AGU Global Courses: Food and Health, Undergraduate, 2019 - 2020

## Jury Memberships

Competition, Ministry of Industry and Technology , February, 2022

## Taught Courses And Trainings

Doğan R. S., Görüntü İşleme Atölyesi, IEEE AGÜ, 2021 - 2021

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

- I. **Histopathology image classification: highlighting the gap between manual analysis and AI automation.**  
Doğan R. S., Yılmaz B.  
Frontiers in oncology, vol.13, pp.1325271, 2024 (SCI-Expanded)
- II. **A comprehensive study on automatic non-informative frame detection in colonoscopy videos**  
KAÇMAZ R. N., DOĞAN R. S., YILMAZ B.  
International Journal of Imaging Systems and Technology, vol.34, no.1, 2024 (SCI-Expanded)
- III. **Image-analysis based readout method for biochip: Automated quantification of immunomagnetic beads, micropads and patient leukemia cell**  
Uslu F., İÇÖZ K., TAŞDEMİR K., DOĞAN R. S., YILMAZ B.  
MICRON, vol.133, 2020 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Comparison of deep learning and conventional machine learning methods for classification of colon polyp types**  
Doğan R. S., Yılmaz B.  
EUROBIOTECH JOURNAL, vol.5, no.1, pp.34-42, 2021 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Optimizing Extracted Deep Features for Classification of Colon Cancer Histopathology Images**  
Doğan R. S., Güzel Ö. F., Altuntop M. S., Taşdemir K.  
5th International Conference on Data Science and Applications (ICONDATA'22), Muğla, Turkey, 7 - 11 September 2022, pp.59
- II. **The Effect of Local Binary Pattern Parameters On the Classification Performance of Polyps Using Colonoscopy Images.**  
Doğan R. S., Baynal H. İ., Yılmaz B.  
8. Uluslararası Tıp ve Sağlık Bilimleri Araştırmaları Kongresi, Ankara, Turkey, 25 - 26 December 2021, pp.780-790
- III. **Investigation of Hepatocellular Carcinoma Molecular Mechanisms via in Silico Analyses**  
Doğan R. S., Saka S., Güngör B.  
2020 5th International Conference on Computer Science and Engineering (UBMK), Gaziantep, Turkey, 09 September 2020 - 11 September 2021, pp.318-322
- IV. **Classification of Colon Polyps by Comparing Deep Learning and Machine Learning Methods**  
Doğan R. S., Yılmaz B.  
European Biotechnology Congress, Praha, Czech Republic, 16 - 18 April 2020, pp.1-2
- V. **Polyp Localization in Colonoscopy Images Using Vessel Density**  
Doğan R. S., Yılmaz B.

2018 Medical Technologies National Congress (TIPTEKNO), Gazimagusa, Cyprus (Kkct), 8 - 10 November 2018, pp.1-4

VI. **Assessment of attention before and after exam with reaction time Sınav öncesi ve sonrası dikkatin reaksiyon söresi ile incelenmesi**

Kılnc P., Doğan R. S., Altinkaynak M., Güven A.

2017 Medical Technologies National Conference, TIPTEKNO 2017, Trabzon, Turkey, 12 - 14 October 2017, vol.2017-January, pp.1-3

## Supported Projects

Yılmaz B., Doğan R. S., AYDIN Z., TUBITAK Project, Artificial Intelligence Assisted Prognostic Marker Determination from Colonoscopy and Histopathology Images for Colon Polyps, 2021 - 2023

## Scientific Refereeing

BIOMEDICAL SIGNAL PROCESSING AND CONTROL, SCI Journal, February 2022

BIOMEDICAL SIGNAL PROCESSING AND CONTROL, SCI Journal, November 2021

## Metrics

Publication: 10

Citation (WoS): 4

Citation (Scopus): 6

H-Index (WoS): 1

H-Index (Scopus): 1

## Congress and Symposium Activities

V. ARAŞTIRMA VE İNOVASYON ÇALIŞTAYI, Working Group, Kayseri, Turkey, 2023

Deneyap Eğitimci Çalıştayı, Attendee, Ankara, Turkey, 2023

8th International Conference on Natural and Engineering Sciences, Attendee, Antalya, Turkey, 2023

II. AR-GE Proje Pazarı Ve Üniversite Tanıtım Günleri, Attendee, Tokat, Turkey, 2023

BAYÖYO 2023: Bilim Akademisi - Sabancı Üniversitesi - İstanbul Teknik Üniversitesi, Attendee, İstanbul, Turkey, 2023

12th International Conference of the International Biometric Society's Eastern Mediterranean Region, Attendee, İzmir, Turkey, 2023

5. Uygulamalı Matematik ve Mühendislik Günleri, Attendee, Erzurum, Turkey, 2023

5th International Conference on Computer Science and Engineering, Attendee, Diyarbakır, Turkey, 2020

IEEE International Symposium on Biomedical Imaging, Attendee, Venice, Italy, 2019

2018 Medical Technologies National Congress (TIPTEKNO), Attendee, Gazimagusa, Cyprus (Kkct), 2018

## Scholarships

YÖK 100/2000, YOK, 2019 - 2020

## Awards

Dođan R. S., Saka S., Gngr B., Best Paper Award, 2020 5Th International Conference On Computer Science And Engineering (UbmK), September 2020

Dođan R. S., Travel Grant Winners of EAD2019, University Of Oxford & Cancer Research Center Uk & Medical Image Analysis Network, Ieee International Symposium On Biomedical Imaging (Isbi'19), In Venice, Italy, April 2019