

## Assoc. Prof. SERKAN TÜRKEĻİ

### Personal Information

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**Web:** <https://avesis.marmara.edu.tr/14570>

### International Researcher IDs

ScholarID: z\_zrPkwAAAAJ

ORCID: 0000-0002-0708-1945

Publons / Web Of Science ResearcherID: I-4129-2014

ScopusID: 35203900600

Yoksis Researcher ID: 139596

### Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2008 - 2012

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, İşletme Mühendisliđi, Turkey 2004 - 2006

Undergraduate, Bahcesehir University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2000 - 2004

### Foreign Languages

English, C2 Mastery

### Certificates, Courses and Trainings

Entrepreneurship, İleri Girişimcilik, KOSGEB, 2021

### Dissertations

Doctorate, Kurumsal alanın oluşumu ve deđişiminde mikro-makro aktör ve yapıların etkileşimi: Türkiye'xxdeki tam teşekküllü özel hastaneler alanı örneđi, Istanbul Technical University, Fen Bilimleri Enstitüsü, İşletme Mühendisliđi, 2012

Postgraduate, Öğretilebilir liderlik Türkiye özel sektör uygulaması, Istanbul Technical University, Fen Bilimleri Enstitüsü, İşletme Mühendisliđi, 2006

### Research Areas

Biostatistics and Medical Informatics

### Academic Titles / Tasks

Associate Professor, Marmara University, Faculty of Health Sciences, Health Administration, 2021 - Continues

Assistant Professor, Marmara University, Faculty of Health Sciences, Health Administration, 2021 - 2022

Lecturer PhD, Istanbul Technical University, Bilişim Enstitüsü, Bilişim Uygulamaları, 2010 - 2021

Lecturer PhD, Bogazici University, Academy Of Applied Sciences, Department Of Management Information Systems, 2019 - 2019

Lecturer PhD, Bahcesehir University, Institute Of Social Sciences, 2013 - 2016

Lecturer, Isik University, Faculty Of Engineering, Department Of Biomedical Engineering, 2014 - 2015

Lecturer, Acibadem Mehmet Ali Aydinlar University, Faculty Of Health Sciences, Healthcare Management, 2008 - 2009

## Academic and Administrative Experience

Head of Department, Marmara University, Faculty Of Health Sciences, Health Administration, 2024 - Continues

Department Academic Incentive Evaluation Commission Member, Marmara University, Faculty Of Health Sciences, Health Administration, 2023 - Continues

Program Değerlendirme Kurulu Üyesi, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, 2018 - 2021

Performans Değerlendirme Komisyonu Üyesi, Istanbul Technical University, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği, 2016 - 2018

University Executive Board Member, Istanbul Technical University, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği, 2013 - 2015

## Courses

Biyomedikal Hizmetlerde Tasarım ve Yönetim, Doctorate, 2024 - 2025

Sağlık için Analitik Yöntemler, Doctorate, 2024 - 2025

Teknoloji ve Örgüt, Doctorate, 2023 - 2024

Sağlık Bilimlerinde Optimizasyon Teknikleri, Undergraduate, 2021 - 2022

Advanced Topics in Mechatronics Engineering, Doctorate, 2020 - 2021

Sağlık Bilimlerinde İleri Programlama, Undergraduate, 2021 - 2022

Special Topics in Mechatr.Eng, Postgraduate, 2020 - 2021

Medical Informatics, Postgraduate, 2017 - 2018

Strategic Healthcare Information System, Postgraduate, 2014 - 2015

## Advising Theses

Türkeli S., Angioinspect: Image processing-based coronary angiography assistant, Postgraduate, M.ALPKAN(Student), 2023

Türkeli S., Tracking disease guidelines with mobile application, Postgraduate, L.YAYLA(Student), 2023

Türkeli S., Marketplace optimization based on customer analytics, Postgraduate, D.AHUÇALAR(Student), 2022

Türkeli S., Yaşlıların düşme tespiti ve bilgilendirme sistemi tasarımı, Postgraduate, F.ELMAS(Student), 2017

Türkeli S., Design of wrist pulse oximeter for continuous neonatal monitoring, Postgraduate, O.ÇALIMLI(Student), 2016

Türkeli S., A framework for a nation-wide electronic health vault with a secure multi-cloud hybrid model, Postgraduate, H.EMRE(Student), 2016

Türkeli S., A contribution towards content-based image retrieval issue: Comparison between GLCM, 2DPCA, and SURF in CBIR for screening mammography analysis, Postgraduate, N.SABATINI(Student), 2016

Türkeli S., Bulanık uzman sistem kullanarak tıkaçıcı uyku apne hipopne sendromunun ciddiyet seviyesinin tahmini, Postgraduate, C.ZOROĞLU(Student), 2015

## Jury Memberships

Doctorate, Doctorate, Marmara Üniversitesi, April, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Marmara Üniversitesi, April, 2022

Doctoral Examination, Doctoral Examination, Marmara Üniversitesi, January, 2022

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

- I. **Health information systems with technology acceptance model approach: A systematic review**  
Tetik G., Türkeli S., Pinar S., Tarim M.  
INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS, vol.123, no.123, pp.123-1234, 2024 (SCI-Expanded)
- II. **IoT-Enabled Design and Implementation of an Endotracheal Tube Cuff Pressure Controller Device**  
Türkeli S.  
IEEE ACCESS, vol.12, no.1, pp.32724-32758, 2024 (SCI-Expanded)
- III. **A Novel Framework for Extracting Knowledge Management from Business Intelligence Log Files in Hospitals**  
Türkeli S., Ozaydin F.  
APPLIED SCIENCES-BASEL, vol.12, no.11, 2022 (SCI-Expanded)
- IV. **A Hybrid Algorithm for Fall Detection.**  
Türkeli S., Elmas F., Atay H. T., Kurt K. K., Sonmez R. Y.  
Studies in health technology and informatics, vol.237, pp.163-168, 2017 (SCI-Expanded)
- V. **Multilevel Combined Surgery With Transoral Robotic Surgery for Obstructive Sleep Apnea Syndrome**  
Kayhan F. T., Kaya K. H., Koc A. K., Yegin Y., Yazici Z. M., Türkeli S., Sayin I.  
JOURNAL OF CRANIOFACIAL SURGERY, vol.27, no.4, pp.1044-1048, 2016 (SCI-Expanded)
- VI. **Assessment of Content-Based Image Retrieval Approaches for Mammography Based on Breast Density Patterns.**  
Purwadi N. S., Atay H. T., Kurt K. K., Türkeli S.  
Studies in health technology and informatics, vol.228, pp.727-31, 2016 (SCI-Expanded)
- VII. **Creating an IOT That Notifies Concerned People for the Falls of Geriatric Patients.**  
Türkeli S., Kurt K. K., Catamak A., Sonmez R. Y., Atay H. T.  
Studies in health technology and informatics, vol.224, pp.105-7, 2016 (SCI-Expanded)
- VIII. **Mining level of control in medical organizations.**  
Çalimli O., Türkeli S., Eken E. G., Gönen H. E.  
Studies in health technology and informatics, vol.205, pp.328-32, 2014 (SCI-Expanded)
- IX. **Designing a Capability-Focused Strategic Management Model for a Turkish Public Hospital: Learning from Failure**  
Türkeli S., Erçek M.  
SYSTEMIC PRACTICE AND ACTION RESEARCH, vol.23, no.5, pp.353-370, 2010 (SSCI)

## Articles Published in Other Journals

- I. **SAĞLIK SEKTÖRÜNDE PAYDAŞ ANALİZİNE YÖNELİK SİSTEMATİK DERLEME**  
TÜRKELİ S., PINAR S., TÜRKELİ E.  
Uluslararası Sağlık Yönetimi ve Stratejileri Araştırma Dergisi, vol.9, no.3, pp.347-360, 2023 (Peer-Reviewed Journal)
- II. **Girişimci Davranışlarının Başlangıç Aşamasındaki Girişimlere Etkisi: Teknopark Türkiye Örneği**  
TÜRKELİ S., Boyacı A. R.  
Girişimcilik ve İnovasyon Yönetim Dergisi, vol.8, no.2, pp.21-38, 2019 (Peer-Reviewed Journal)
- III. **FUZZY EXPERT SYSTEM FOR SEVERITY PREDICTION OF OBSTRUCTIVE SLEEP APNEA HYPOPNEA SYNDROME**

zorođlu c., TÜRKEĒİ S.

The Journal of Cognitive Systems, vol.2, no.2, pp.37-43, 2019 (Peer-Reviewed Journal)

**IV. STANDART BELGE İLE FARKLILAŐMA MÜMKÜN MÜ AKREDİTASYON SÖYLEM ANALİZİ**

TÜRKEĒİ S.

İstanbul Ticaret Üniversitesi Sosyal Bilimler Dergisi, vol.14, no.27, pp.111-131, 2015 (Peer-Reviewed Journal)

**V. A model proposal for evaluating the performance of technology supported surgeries**

TÜRKEĒİ S.

Praxis of Otorhinolaryngology, vol.1, no.3, pp.112-116, 2014 (Peer-Reviewed Journal)

## **Books & Book Chapters**

**I. SAĐLIK YÖNETİMİNDE ÇALIŐANLARIN KURUMSAL AİDİYET SÜREÇ YÖNETİMİ**

TÜRKEĒİ S., PINAR S.

in: SAĐLIK YÖNETİMİNDE SÜREÇ YÖNETİMİ, Prof. Dr. Süleyman Dünder, Editor, Nobel, İstanbul, pp.393-421, 2023

**II. TIP ALANINDA KULLANILAN ROBOTLAR**

Türkeli S.

in: Sađlıkta İleri Teknoloji Uygulamaları, M. Said Yıldız, Editor, Nobel Yayın Dađıtım, İstanbul, pp.78-98, 2019

**III. Flash MX**

TÜRKEĒİ S.

PcWorld Türkiye, 2004

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

**I. COMPARISON OF CLASSIFICATION METHODS: SVM AND KNN FOR SKIN CANCER DETECTION**

Sanci M. E., Candan S., TÜRKEĒİ S., TÜFEKÇİ A. E., Candan F., Mihaylova L.

International Congress on Health, Ankara, Turkey, 23 June 2022

**II. Enemy inside: Salesperson fraud detection in the insurance industry**

Türkeli S., Eti T., Guney Y., Akyuz M., Cicek M. A., Cimen M.

15th Iberian Conference on Information Systems and Technologies, CISTI 2020, Sevilla, Spain, 24 - 27 June 2020

**III. Visualization of Molecular Medicine Data**

TÜRKEĒİ S.

7th International Congress of Molecular Medicine, 5 - 07 September 2019

**IV. The Importance of Multidisciplinary in Data Science: Application of the Method in Health Sector to Telecommunication Sector**

Kurt K. K., Atay H. T., Cicek M. A., Karaca S. B., Türkeli S.

2019 International Conference on Artificial Intelligence and Data Processing Symposium, IDAP 2019, Malatya, Turkey, 21 - 22 September 2019

**V. Data Gathering and Processing in Cloud Based Dental Management Systems**

Türkeli S., Kurt K. K., Atay H. T., Çiçek M. A., Karaca S. B.

2018 International Conference on Artificial Intelligence and Data Processing, IDAP 2018, Malatya, Turkey, 28 - 30 September 2018

**VI. Mining similar radiology reports using BoW and Fuzzy C-means clustering**

Türkeli S., Gazioglu B. S. A., Kurt K. K., Atay H. T., Gorur Y.

2017 International Artificial Intelligence and Data Processing Symposium, IDAP 2017, Malatya, Turkey, 16 - 17 September 2017

**VII. A smart dermoscope design using artificial neural network**

Türkeli S., Oguz M. S., Abay S. B., Kumbasar T., Atay H. T., Kurt K. K.

2017 International Artificial Intelligence and Data Processing Symposium, IDAP 2017, Malatya, Turkey, 16 - 17 September 2017

- VIII. **Robotik Cerrahi Sistemlerinin Performans Ölçüm Kriterleri ve Maliyet Boyutu**  
TÜRKEİ S.  
İstanbul KBB – BBC Uzmanları Derneğimizin 9. Kongresi, Sakarya, Turkey, 28 September - 01 October 2017
- IX. **Creating an IOT Device to Monitor Vital Signs of Infants**  
TÜRKEİ S., Kurt K. K., Atay H. T., Sönmez R. Y.  
VI. International Congress of Molecular Medicine, 22 - 25 May 2017, vol.2, pp.156
- X. **Molecular Information Processing: Data Mining Techniques to Detect Cancer with Odor Analysis**  
TÜRKEİ S., Bayat B.  
VI. International Congress of Molecular Medicine, 22 - 25 May 2017
- XI. **Of Robots Surgeons and Careers The Role of Professional Work in Creating the Robotic Surgery Career Field in Turkey**  
TÜRKEİ S., ERÇEK M.  
EGOS - European Group for Organizational Studies, Italy, 07 July 2016 - 10 July 2016
- XII. **Smart Connected Cities How Healthcare Services should be designed in a Smart City**  
TÜRKEİ S.  
IEEE NOMS, İstanbul, Turkey, 26 - 30 April 2016
- XIII. **New ways of collecting data valuable data for CRM healthcare social and economic structuring analytics**  
TÜRKEİ S.  
4th Big Data Conference, Dubai, United Arab Emirates, 26 - 28 January 2016
- XIV. **Assessment and Improvement of Content-Based Image Retrieval Approaches for Screening Mammography Analysis**  
Purwadi N. S., Gazioglu B. S. A., Türkeli S.  
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.1421-1424
- XV. **Human Body as a Big Data Source**  
TÜRKEİ S.  
V. International Congress of Molecular Medicine, 18 - 21 May 2015
- XVI. **What Makes an Organization Intelligent**  
Mert T., Kemal K., TÜRKEİ S.  
Yircobs 2012, 13 - 15 August 2012
- XVII. **Kurum Kalite Ölçümünde Genel Kriterler İle Kuruma Özgü Kriterler Savaşı Ve Veya Barışı**  
TÜRKEİ S.  
9. Sağlık Yönetimi Kongresi, Cyprus (Kkct), 15 - 20 April 2011
- XVIII. **Sustainable Competitive Advantage In Health Tourism Bursa Case**  
TÜRKEİ S., Akbaş Şahin H.  
4th International Congress on Health Tourism, 11 - 14 May 2011
- XIX. **Bir Strateji Olarak Marka Topluluğu Harley Davidson Örneği**  
TÜRKEİ S., Gülşen Ö.  
Yönetim ve Organizasyon Kongresi, Çanakkale, Turkey, 7 - 09 April 2011, pp.1
- XX. **JCI Belgesi Alan Hastanelerin Akreditasyon Söylemi**  
TÜRKEİ S.  
7. Sağlık Yönetimi Kongresi, Turkey, 15 - 17 May 2009
- XXI. **Türkiye nin Sağlık Turizmi Stratejisi Mevcut Durum Analizi**  
TÜRKEİ S., Ölmez F., Begüm S.  
9. Sağlık Yönetimi Kongresi, Turkey, 7 - 09 April 2011
- XXII. **Sağlık Örgütleri Stratejik Yönetiliyor mu İş Zekası Raporları Temelinde Vaka Analizi**  
TÜRKEİ S., Ölmez f., oyku s., Barış g., begum a.  
8. Sağlık Yönetimi Kongresi, Turkey, 12 - 14 May 2010
- XXIII. **Bir Meslek Olarak Fizyoterapi Türkiye de Kuruluş Süreci ve Mesleğin Geleceği Adına Uzmanlıkların Tanımlanması**

- TÜRKELİ S., Senay K., Orhan P., Gamze K.  
3. Fizyoterapi Kongresi, Turkey, 14 - 16 April 2011
- XXIV. **A Model Proposal for Measuring the Performance Of Nurses In The Specialized Nursing System**  
KAN ÖNTÜRK Z., TÜRKELİ S., Akbaş Şahin H.  
2nd International Congress on Quality and Performance in Healthcare, 14 - 16 May 2010, pp.1
- XXV. **Dinamik Kapasiteye Sahip Olmak İçin Liderlik Özelliklerine İhtiyacımız Var Mı**  
TÜRKELİ S.  
Yönetim ve Organizasyon Kongresi, Turkey, 8 - 09 April 2010, pp.1
- XXVI. **JCI Akreditasyonu Bir Yönetim Modası Mı**  
TÜRKELİ S.  
Sağlık Yönetimi Kongresi, Turkey, 13 - 16 April 2010, pp.62-73
- XXVII. **How can we improve the communication quality between doctor and foreign patient**  
TÜRKELİ S., Akbaş Şahin H.  
EFMI STC 2009, 24 - 27 February 2009, pp.1
- XXVIII. **Distance Learning System Using Scarce Resources More Efficient**  
TÜRKELİ S.  
Biltek 2005, 7 - 09 April 2005, pp.1
- XXIX. **Sağlık Sektöründe Stratejik Yönetim Modeli Olarak Kurumsal Karne Uygulaması Vakıf Gureba Eğitim Hastanesi Örneği**  
Özalp H., Akal U., Baş S., TÜRKELİ S.  
Sağlık Yönetimi Kongresi, Turkey, 27 April - 02 May 2008, pp.1
- XXX. **Measuring Technology s Effects on Healthcare Processes**  
TÜRKELİ S., KAYHAN F. T., kaya h., çağdaş d.  
The 13th International Special Topic Congress of the European Federation for Medical Informatics, 9 - 13 April 2013
- XXXI. **Sağlık Sektöründe Karar Destek Sistemi Olarak İş Zekası Uygulaması ve Model Önerisi**  
TÜRKELİ S.  
8. Ulusal Tıp Bilişimi Kongresi, Turkey, 13 - 16 November 2008, pp.1

## Supported Projects

- Türkeli S., TUBITAK Project, T-CUFF : IOT TABANLI OTOMATİK ENDOTRAKEAL TÜP KAF BASINCI YÖNETİM CİHAZI, 2023 - 2024
- Türkeli S., Project Supported by Other Official Institutions, Cloud Tabanlı Makine Öğrenmesi Ortamının Geliştirilmesi, 2020 - 2021
- Türkeli S., Project Supported by Other Official Institutions, Web Tabanlı Sistem, Ürün, Proje Geliştirme Ortamı ve Eğitim Simülatörü, 2018 - 2020
- Türkeli S., Project Supported by Other Official Institutions, Stok Kontrolü ve Güvenlik Amaçlı Akıllı Dolap Tasarımı, 2018 - 2019
- Türkeli S., Project Supported by Other Official Institutions, Gediatri Hastalarının Düşmesini İlgili Kişilere Bildiren IOT Cihaz Tasarımı, 2017 - 2018
- Türkeli S., Project Supported by Higher Education Institutions, Görme Engelliler İçin Sesle Dilekçe Yazım Projesi, 2016 - 2017

## Activities in Scientific Journals

- Türkiye Klinikleri Sağlık Bilimleri Dergisi, Advisory Committee Member, 2022 - Continues

## Scientific Refereeing

TUBITAK Project, 1002 - Quick Support Program, Marmara University, Turkey, October 2024

IEEE SENSORS JOURNAL, SCI Journal, June 2018

INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS, Journal Indexed in SSCI, January 2014

## Tasks In Event Organizations

Türkeli S., 25th European Medical Informatics Conference (MIE2014), Scientific Congress, İstanbul, Turkey, Ekim 2024

Türkeli S., GenoFuture , Scientific Congress, İstanbul, Turkey, Mayıs 2014

Türkeli S., Yeditepe International Research Conference on Business Strategies, Scientific Congress, İstanbul, Turkey, Temmuz 2012

## Metrics

Publication: 49

Citation (WoS): 13

Citation (Scopus): 36

H-Index (WoS): 2

H-Index (Scopus): 3

## Congress and Symposium Activities

İstanbul KBB – BBC Uzmanları Derneğimizin 9. Kongresi, Invited Speaker, Kocaeli, Turkey, 2017

VI. International Congress of Molecular Medicine, Invited Speaker, İstanbul, Turkey, 2017

IEEE NOMS, Invited Speaker, İstanbul, Turkey, 2016

4th Big Data Conference, Invited Speaker, Dubai, United Arab Emirates, 2016

Medical Informatics Europe 2015 (MIE 2015), Session Moderator, İstanbul, Turkey, 2015

Medical Informatics Europe 2015 (MIE 2015), Session Moderator, İstanbul, Turkey, 2015

V. International Congress of Molecular Medicine, Invited Speaker, İstanbul, Turkey, 2015

GenoFuture, Moderator, İstanbul, Turkey, 2013

YIRCoBS'12, Session Moderator, İstanbul, Turkey, 2012

9. Sağlık Yönetimi Kongresi, Attendee, Antalya, Turkey, 2011

8. Ulusal Tıp Bilişimi Kongresi, Attendee, Antalya, Turkey, 2008

## Awards

Türkeli S., En iyi 2. Sunum Ödülü, International Congress Of Molecular Medicine , June 2019

Türkeli S., Dünya 3., Mars Society, May 2019

Türkeli S., En iyi poster ödülü, Turk Molekuler Tıp Derneği, January 2017

Türkeli S., Bronze, Horizon Interactive Awards, January 2013

Türkeli S., 3. En iyi Bildiri, Sağlık Yönetimi Derneği, May 2008