

Prof. SALİH MURAT EĞİ

Personal Information

Email: megi@gsu.edu.tr

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

International Researcher IDs

ORCID: 0000-0001-6578-4596

Publons / Web Of Science ResearcherID: L-3164-2019

Yoksis Researcher ID: 124307

Education Information

Doctorate, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, Turkey 1992 - 1999

Postgraduate, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, Turkey 1990 - 1992

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1984 - 1989

Foreign Languages

French, C1 Advanced

Research Areas

Marine Sciences and Technology, Computer Sciences, Electrical and Electronics Engineering

Academic Titles / Tasks

Associate Professor, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Bilgisayar Mühendisliği, 2020 - Continues

Assistant Professor, Istanbul University, Teknik Bilimler Meslek Yüksekokulu, 2000 - 2003

Lecturer PhD, Istanbul University, Teknik Bilimler Meslek Yüksekokulu, 1999 - 2000

Research Assistant, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, 1991 - 1998

Academic and Administrative Experience

Galatasaray Üniversitesi, Mühendislik ve Teknoloji Fakültesi, 2003 - 2013

Advising Theses

EGİ S. M., Clustering of divers using data mining techniques, Postgraduate, A.CÜNEYT(Student), 2018
EGİ S. M., Design of a smartphone-based development board to collect underwater physiological data from divers, Postgraduate, M.MEMİŞOĞLU(Student), 2014
EGİ S. M., Cluster analysis of decompression illness, Postgraduate, B.AKSOY(Student), 2009
EGİ S. M., CI-dragon-rov semi-autonome, Postgraduate, G.EREN(Student), 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Vascular Function Recovery Following Saturation Diving**
Imbert J., Egi S., Balestra C.
MEDICINA-LITHUANIA, vol.58, no.10, 2022 (SCI-Expanded)
- II. **Static Metabolic Bubbles as Precursors of Vascular Gas Emboli During Divers' Decompression: A Hypothesis Explaining Bubbling Variability**
Imbert J., EGİ S. M., Germonpre P., Balestrau C.
FRONTIERS IN PHYSIOLOGY, vol.10, 2019 (SCI-Expanded)
- III. **Clustering of recreational divers by their health conditions in a database of a citizen science project**
ÖZYİĞİT T., Yavuz C., EGİ S. M., Pieri M., Balestra C., Marroni A.
UNDERSEA AND HYPERBARIC MEDICINE, vol.46, no.2, pp.171-181, 2019 (SCI-Expanded)
- IV. **Clustering of recreational divers by their health conditions in a database of a citizen science project**
ÖZYİĞİT T., Yavuz C., EGİ S. M., Pieri M., Balestra C., Marroni A.
Undersea and Hyperbaric Medicine, vol.46, no.2, pp.171-183, 2019 (SCI-Expanded)
- V. **Designing a Diving Protocol for Thermocline Identification Using Dive Computers in Marine Citizen Science**
Egi S. M., Cousteau P., Pieri M., Cerrano C., ÖZYİĞİT T., Marroni A.
APPLIED SCIENCES-BASEL, vol.8, no.11, 2018 (SCI-Expanded)
- VI. **Safety Priorities and Underestimations in Recreational Scuba Diving Operations: A European Study Supporting the Implementation of New Risk Management Programmes**
Lucrezi S., Egi S. M., Pieri M., Burman F., ÖZYİĞİT T., Cialoni D., Thomas G., Marroni A., Saayman M.
FRONTIERS IN PSYCHOLOGY, vol.9, 2018 (SSCI)
- VII. **Design and Validation of a Breathing Detection System for Scuba Divers**
Altepe C., EGİ S. M., ÖZYİĞİT T., Sinoplu D. R., Marroni A., Pierleoni P.
SENSORS, vol.17, no.6, 2017 (SCI-Expanded)
- VIII. **Commercial diver selection using multiple-criteria decision-making methods**
ÖZYİĞİT T., EGİ S. M.
UNDERSEA AND HYPERBARIC MEDICINE, vol.41, no.6, pp.565-572, 2014 (SCI-Expanded)
- IX. **Diving at altitude: From definition to practice**
EGİ S. M., Pieri M., Marroni A.
UNDERSEA AND HYPERBARIC MEDICINE, vol.41, no.6, pp.495-503, 2014 (SCI-Expanded)
- X. **BUBBLE STREAM REVEALS FUNCTIONALITY OF THE RIGHT-TO-LEFT SHUNT: DETECTION OF A POTENTIAL SOURCE FOR AIR EMBOLISM**
Parlak I. B., EGİ S. M., ADEMOĞLU A., Germonpre P., Esen O. B., Marroni A., Balestra C.
ULTRASOUND IN MEDICINE AND BIOLOGY, vol.40, no.2, pp.330-340, 2014 (SCI-Expanded)
- XI. **Decompression Illness Medically Reported by Hyperbaric Treatment Facilities: Cluster Analysis of 1929 Cases**
ÖZYİĞİT T., EGİ S. M., Denoble P., Balestra C., Aydin S., Vann R., Marroni A.
AVIATION SPACE AND ENVIRONMENTAL MEDICINE, vol.81, no.1, pp.3-7, 2010 (SCI-Expanded)
- XII. **Design of an acoustic telemetry system for rebreathers**
Egi S. M.
UNDERSEA & HYPERBARIC MEDICINE, vol.36, no.1, pp.65-71, 2009 (SCI-Expanded)
- XIII. **Automatic detection of bubbles in the subclavian vein using Doppler ultrasound signals**

- Tufan K., Ademoglu A., Kurtaran E., Yildiz G., Aydin S., Egi S. M.
 AVIATION SPACE AND ENVIRONMENTAL MEDICINE, vol.77, no.9, pp.957-962, 2006 (SCI-Expanded)
- XIV. **Field trials of no-decompression stop limits for diving at 3500 m**
 Egi S. M., Gurmen N., Aydin S.
 AVIATION SPACE AND ENVIRONMENTAL MEDICINE, vol.74, no.3, pp.228-235, 2003 (SCI-Expanded)
- XV. **Simulation of dynamic bubble spectra in tissues**
 Gurmen N., Llewellyn A., Gilbert R., Egi S. M.
 IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, vol.48, no.2, pp.185-193, 2001 (SCI-Expanded)
- XVI. **Computation of decompression tables using continuous compartment half-lives**
 Egi S. M., Gurmen N.
 UNDERSEA & HYPERBARIC MEDICINE, vol.27, no.3, pp.143-153, 2000 (SCI-Expanded)
- XVII. **DIVING AT ALTITUDE - A REVIEW OF DECOMPRESSION STRATEGIES**
 EGI S. M., BRUBAKK A.
 UNDERSEA & HYPERBARIC MEDICINE, vol.22, no.3, pp.281-300, 1995 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Real-Time Algorithm for PPG Signal Processing During Intense Physical Activity**
 Gentili A., Belli A., Palma L., EGI S. M., Pierleoni P.
 6th EAI International Conference on IoT Technologies for HealthCare, HealthyIoT 2019, Braga, Portugal, 4 - 06 December 2019, pp.22-36
- II. **Underwater Position Estimation for an Underwater Vehicle using Unscented Kalman Filter**
 Scaradozzi D., Panebianco L., Ciuccoli N., Zingaretti S., EGI S. M., Altepe C.
 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- III. **DocuScooter: A novel robotics platform for marine citizen science**
 Scaradozzi D., Zingaretti S., Panebianco L., Altepe C., EGI S. M., Palma M., Pantaleo U., Ferraris D., Micheli F.
 27th International Ocean and Polar Engineering Conference, ISOPE 2017, California, United States Of America, 25 - 30 June 2017, pp.404-409
- IV. **Data Mining on Divers Alert Network DSL Database: Classification of Divers**
 ÖZYİĞİT T., Yavuz C., Pieri M., EGI S. M., Egi B., Altepe C., Cialoni D., Marroni A.
 16th Industrial Conference on Data Mining (ICDM), New-York, United States Of America, 13 - 17 July 2016, vol.9728, pp.96-109
- V. **Nerites underwater monitoring system of diver's respiration and regulator performance using Intermediate Pressure Signal**
 Altepe C., EGI S. M., ÖZYİĞİT T., Pierleoni P.
 9th International Conference on Biomedical Electronics and Devices, BIODEVICES 2016 - Part of 9th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2016, Rome, Italy, 21 - 23 February 2016, pp.119-124
- VI. **Cognitive Autonomous Diving Buddy (CADDY): AUV Design Requirements for Divers Safety**
 Egi S. M., Balestra C., Pieri M., Cialoni D., Thomas G., Marroni A.
 Oceans 2015 Genova, Genoa, Italy, 18 - 21 May 2015
- VII. **Development of a wireless dive computer - mobile phone interface to relay profile information to diving databases**
 EGI S. M., ÖZYİĞİT T.
 Joint International Symposium on "The Social Impacts of Developments in Information, Manufacturing and Service Systems" 44th International Conference on Computers and Industrial Engineering, CIE 2014 and 9th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2014, İstanbul, Turkey, 14 - 16 October 2014, pp.1035-1038
- VIII. **Evaluating the ergonomic performance of dive computers**
 ÖZYİĞİT T., EGI S. M.

2012 2nd International Conference on Digital Information and Communication Technology and its Applications, DICTAP 2012, Bangkok, Thailand, 16 - 18 May 2012, pp.314-318

- IX. **A Neuro-fuzzy Approach of Bubble Recognition in Cardiac Video Processing**
PARLAK İ. B., EĞİ S. M., ADEMOĞLU A., Balestra C., Germonpre P., Marroni A., Aydin S.
International Conference on Digital Information and Communication Technology and Its Applications, Dijon, France, 21 - 23 June 2011, vol.166, pp.277-279
- X. **Personnel Selection for Manned Diving Operations**
ÖZYİĞİT T., EĞİ S. M., Aydin S., Tunc N.
International Conference on Digital Information and Communication Technology and Its Applications, Dijon, France, 21 - 23 June 2011, vol.167, pp.654-655
- XI. **Automatic bubble detection with neural networks on post decompression frames Post dekompresyon imgelerinde yapay sinir ağılarıyla otomatik kabarcık tesbiti**
PARLAK İ. B., EĞİ S. M., Ademoğlu A., Balestra C., Germonpre P., Marroni A., AYDIN S.
2010 15th National Biomedical Engineering Meeting, BIYOMUT2010, Antalya, Turkey, 21 - 24 April 2010
- XII. **Bubble Detection on Left Atrium Related With Patent Foramen Ovale**
PARLAK İ. B., EĞİ S. M., ADEMOĞLU A., Germonpre P., Esen O. B., Aydin S., Tekin S., Balestra C., Marroni A.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.443-444
- XIII. **Validation of bioelectrical impedance to assess body composition change at altitude**
Ulgen Y., Yavuz E., Egi S. M.
Proceedings of the 1999 IEEE Engineering in Medicine and Biology 21st Annual Conference and the 1999 Fall Meeting of the Biomedical Engineering Society (1st Joint BMES / EMBS), Atlanta, GA, USA, 13 - 16 October 1999, vol.2, pp.815

Supported Projects

- EĞİ S. M., Project Supported by Higher Education Institutions, DALIŞ BİLGİSAYARLARININ DALIŞ PROFİLLERİNİ VERİ TABANLARINA CEP TELEFONLARI ARACILIĞI İLE YÜKLEMELERİ İÇİN DONANIM GELİŞTİRİLMESİ, 2012 - 2015
- EĞİ S. M., Project Supported by Higher Education Institutions, KARMAŞIK AĞLARDA KOMÜN ARAMA, 2010 - 2012
- EĞİ S. M., Project Supported by Higher Education Institutions, İNSANLI SUALTI OPERASYONLARINDA PERSONEL SEÇİMİ İÇİN KARAR DESTEK SİSTEMİ GELİŞTİRİLMESİ, 2009 - 2011
- EĞİ S. M., Project Supported by Higher Education Institutions, YÜKSEK İRTİFADA KABARCİK OLUŞUM BENZETİMİ, 2008 - 2009
- EĞİ S. M., Project Supported by Higher Education Institutions, PFO(PATENT FORAMEN OVALE) TEŞHİSİNİN BİLGİSAYAR YARDIMI İLE OTOMATİK OLARAK GERÇEKLENMESİ VE YENİ STANDARTLARA GÖRE SINIFLANDIRILMASI, 2008 - 2009

Metrics

- Publication: 30
Citation (WoS): 69
Citation (Scopus): 79
H-Index (WoS): 5
H-Index (Scopus): 6