

Prof. ALİ YEKTA ÜLGEN

Personal Information

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International Researcher IDs

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Biography

Yekta Ülgen currently works at the Department of Biomedical Engineering, Acibadem University. Yekta does research in Bioengineering, Biosystems Engineering and Electronic Engineering. His current project is Heart Rate Variability and 'Vagus nerve stimulation

Research Areas

Biomedical Engineering, Bioengineering and MEMS, Biosignal Processing, Clinical Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2023 - Continues

Professor, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, 1992 - 2017

Associate Professor, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, 1985 - 1992

Assistant Professor, Bogazici University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, 1982 - 1985

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, 1980 - 1982

Lecturer PhD, Naval Academy Command, Naval Academy (Dean's Office), 1979 - 1980

Academic and Administrative Experience

Head of Department, Bahcesehir University, Faculty Of Engineering And Natural Sciences, Department Of Biomedical Engineering, 2017 - 2021

Director of The Institution, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, 2005 - 2021

Assistant Director of the Institute, Bogazici University, Institute Of Biomedical Engineering, Department Of Biomedical Electronics, 1982 - 1995

Head of Department, Bogazici University, Vocational School, Technical Programs Department, 1983 - 1985

Courses

Medical Electronics, Undergraduate, 2023 - 2024

Biomedical Test Methodologies, Undergraduate, 2023 - 2024

Biyomedikal ve Klinik Mühendisliği, Undergraduate, 2023 - 2024

Quality Management in Healthcare Systems, Undergraduate, 2022 - 2023

Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Bahçeşehir Üniversitesi, February, 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A novel approach to CSF pressure measurement via lumbar puncture that shortens the measurement time with a high level of accuracy**
YÜCEL D., ÜLGEN A. Y.
BMC NEUROSCIENCE, vol.24, no.1, 2023 (SCI-Expanded)
- II. **The complex impedance phase angle of dominant arm: a useful parameter in bone mineral density (BMD) assessment of group 1 post-menopausal women**
Matur F., Ulgen Y.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, no.1, pp.25-32, 2023 (SCI-Expanded)
- III. **Characterization of carotid endothelial cell proliferation on Au, Au/GO, and Au/rGO surfaces by electrical impedance spectroscopy**
Simsek F., Can O. M., Garipcan B., Kocaturk O., Ulgen Y.
MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, no.7, pp.1431-1443, 2020 (SCI-Expanded)
- IV. **2D-ROC: a receiver operating surface and its illustrative application in clinical diagnostics**
Matur F., Ulgen Y.
PHYSIOLOGICAL MEASUREMENT, vol.40, no.7, 2019 (SCI-Expanded)
- V. **Estimation of free hemoglobin concentrations in blood bags by diffuse reflectance spectroscopy**
Can O. M., Ulgen Y.
JOURNAL OF BIOMEDICAL OPTICS, vol.23, no.12, 2018 (SCI-Expanded)
- VI. **Laser biostimulation of wound healing: bioimpedance measurements support histology**
Solmaz H., Dervisoglu S., Gulsoy M., Ulgen Y.
LASERS IN MEDICAL SCIENCE, vol.31, no.8, pp.1547-1554, 2016 (SCI-Expanded)
- VII. **Classification of Juvenile Myoclonic Epilepsy Data Acquired Through Scanning Electromyography with Machine Learning Algorithms**
Goker I., Osman O., ÖZEKES S., BASLO M. B., Ertas M., Ulgen Y.
JOURNAL OF MEDICAL SYSTEMS, vol.36, no.5, pp.2705-2711, 2012 (SCI-Expanded)
- VIII. **Time-frequency distribution of evoked otoacoustic emissions**
Ozdamar O., Zhang J., Kalayci T., Ulgen Y.
BRITISH JOURNAL OF AUDIOLOGY, vol.31, no.6, pp.461-471, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **Screening post-menopausal women for bone mineral level by bioelectrical impedance spectroscopy of dominant arm**
Öztürk N., Ozturk-Isik E., Ülgen Y.
Journal of Electrical Bioimpedance, vol.9, no.1, pp.39-47, 2018 (Scopus)
- II. **Spectra of A.C.-induced noise in resistors**

Sutcliffe H., Ülgen Y.

Electronics Letters, vol.13, no.14, pp.397-399, 1977 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Use of the Color Spaces in Determining the Level of Hemolysis in Blood under Storage**
Can O. M., Ülgen Y., Akin A.
6th European Conference of the International-Federation-for-Medical-and-Biological-Engineering (MBEC),
Dubrovnik, Croatia, 7 - 11 September 2014, vol.45, pp.290-293
- II. **Changes in electrical and physiological properties of human blood during storage**
SEZDİ M., SÖNMEZER M. Ç., Tekeli O., Ülgen Y., Emerk K.
27th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, Shanghai, China,
31 August - 03 September 2005, pp.6710-6713
- III. **Hematocrit dependence of the Cole-Cole parameters of human blood**
Ülgen Y., SEZDİ M.
2nd International Biomedical Engineering Days Conference, İstanbul, Turkey, 20 - 22 May 1998, pp.71-74