

5th International Conference on Medical Devices (ICMD'2022)

Gaziantep, Turkey

Technical Program (June 6, 2022 – Monday)

10:00	Opening Talk	Türkey Dereli, Rector
10:30	Opening Talk	Mehmet Lutfi Yola, Yalcin Isler
11:00	Invited Talk: Bio-resorbable Sensors and MEMS Energy Harvesters for Next-Generation Transient and Self-Powered Implants	Levent Beker
12:00	Antimicrobial Peptide Conjugation on the Catheter Surfaces for the Control and Prevention of Catheter Associated Urinary Tract Infections	Basak Olcay, Gizem Dilara Ozdemir, Gunnur Pulat, Utku Kursat Ercan, Ozan Karaman
12:15	Terahertz Metamaterial Sensing	Samia Gamouh, Chahra Boukaous
12:30	LUNCH BREAK	
13:30	Detection of Fetal Heart Rate Variability and Fetal Arrhythmia with ECG	Sule Seval Karakaya, Nur Sena Ozdemir, Zeynep Hande Coskun, Farhad Nassehi, Osman Eroglu
13:45	Development of Radiant Warmer Thermal Monitoring System to Improve Neonatal Patient Safety	Mertcan Ozdemir, Osman Eroglu
14:00	In House Development of Contact Microphone Based Wearable Device for Knee Joint Health Assessment Using Vibroarthrography	Dhirendra Kumar Verma, Mirsaidin Hussain, Poonam Kumari, Subramani Kanagaraj
14:15	Design of a Tele-Physiotherapy Device to Remedy Elbow Joint	Arda Sarpay, Yalcin Isler
14:30	Development of Personal Trainer Device for Exercise and Rehabilitation Tracking	Onuralp Arslan, Yalcin Isler
14:45	SSVEP-based Brain Computer Interface Classifier Comparison	Recai Furkan Kayali, Gamze Guven, Ibrahim Kaya
15:00	BREAK	
15:15	Development of Smart and Powered Anti Infection Face Mask	Muhammed Tarik Copoglu, Hakan Oflaz
15:30	Statistical Analysis of Time-Frequency Features Based On Multivariate Synchrosqueezing Transform for Hand Gesture Classification	Onan Guren, Lutfiye Saripinar, Hande Deniz Kisa, Mehmet Akif Ozdemir
15:45	Design of Steady-State Visually-Evoked Potential Based Brain-Computer Interface System	Meryem Beyza Avci, Rabia Hamurcu, Ozge Ada Bozbas, Ege Gurman, Arif Engin Cetin, Ebru Sayilgan
16:00	Investigation of Different Miniscrew Head Designs by Finite Element Analysis	Samet Ciklacandir, Gokcenur Gokce Kara, Yalcin Isler
16:15	Design of a Real-Time Tracking System to Eliminate 3D Printing Errors Caused by Thermoplastic Materials	Samet Ciklacandir, Seher Culha, Yalcin Isler
16:30	Motor Imaginary Task Classification using Statistically Significant Time Domain and Frequency Domain EEG features	Murside Degirmenci, Yilmaz Kemal Yuce, Yalcin Isler
16:45	Classification of Multi-Class Motor Imaginary Tasks using Poincare Measurements Extracted from EEG Signals	Murside Degirmenci, Yilmaz Kemal Yuce, Yalcin Isler
17:00	End of the First Day	

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Technical Program (June 7, 2022 – Tuesday)

11:00	Invited Talk: Personalization and Optimization of Auricular Vagus Nerve Stimulation	Ali Veysel Ozden
12:00	Mini Review: Mobile Applications for Measuring Tremor	Neslisah Uslu, Yasemin Tokem
12:15	The Effect of Principal Component Analysis on Various Machine Learning Algorithms in the Diagnosis of Ovarian Cancer	Bartu Yesilkaya, Saadet Sena Egeli, Yalcin Isler
12:30	LUNCH BREAK	
13:30	Investigation of The Binding Potential of Gadobutrol, Iohexol and Fluorescein Radiocontrast Agents to the TSH Receptor	Deniz Karatas, Ataman Gonel
13:45	Sample Tube Induced Deviation Analysis Detection in Zinc Concentration Measurement	Mustafa Anil Erbagci, Sena Bekerecioglu, Vahide Tas Ozdemir, Ataman Gonel
14:00	Structural Optimization, Design, and Fabrication of Dissolvable Microneedle Arrays	Andisheh Choupani, Elif Sevval Temucin, Bekir Bediz
14:15	Effects of YIGSR and RGD Peptide Conjugated PLGA Nanofibers on Cellular Adhesion and Proliferation	Dilara Portakal Koc, Gunnur Pulat, Ozan Karaman
14:30	Design of Paper-Based Biosensor for Copper Detection	Didem Aksoy Korpe
14:45	Classification of Sleep Stages via Machine Learning Algorithms	Ali Bulut, Galip Ozturk, Ibrahim Kaya
15:00	BREAK	
15:15	Design of Medical LED-Based Light Source with a Changable Magnetic Panel for the Use of Different Wavelengths	Miray Kocer, Nermin Topaloglu
15:30	Human Mesenchymal Stem Cells Osteogenic Differentiation on Dental Barrier Membrane	Bahar Utar, Gulsah Sunal, Gunnur Pulat, Ozan Karaman
15:45	Investigation of Mechanical Properties of Silicate Doped Synthetic Flexible Biomaterial	Ihsan Coskun, Ozan Karaman
16:00	Investigation of the Effect of Fluorescein Radiopaque Substance on CD34 Levels	Buse Kiratli, Ozlem Gulecoglu, Melike Yildirim, Çagan Dagdeviren, Ataman Gonel
16:15	Dilutional Correction of 25OHD, vitamin B12, Folate Measurement at High Level Immunoglobulin Concentration	Ilknur Polat, Hulya Yilmaz, Ozlem Kiki, Ataman Gonel
16:30	Wearable Auscultation Device Design	Osman Balli, Yakup Kutlu
16:45	Recognition of Turkish Command to Play Chess Game Using CNN	Yakup Kutlu, Gizem Karaca
17:00	Mobile Application Developed for Individuals with Diabetes: My Sugar Application	Goksen Polat, Veysel Yusuf Yilmaz, Volkan Kilic, Elif Unsal Avdal
17:15	Deep Eutectic Solvent (DES) Based Dispersive Liquid-Phase Microextraction of Sunset Yellow FCF in Food and Pharmaceutical Products	Nebiye Kizil, Erkan Basaran, Duygu Erbilgin, Mehmet Lutfi Yola, Furkan Uzcan, Mustafa Soylak
17:30	Closing Talk & Ceremony	Mehmet Lutfi Yola, Yalcin Isler
18:00	Private Meeting	Organizing Committee