

AIntelia Sciences Notes

**International Joint Conference on Engineering, Science and
Artificial Intelligence**

IJCESAI 2022, June 15-17, 2022

Editor

İlyas Özer

Bandırma Onyedi Eylül University

Bandırma, Balıkesir, Turkey

More information about this series at <https://conference.aintelia.com/>

Preface

This book contains the papers presented International Joint Conference on Engineering, Science and Artificial Intelligence, which was held online during June 15–17, 2022, in Bursa, Turkey.

International Joint Conference on Engineering, Science and Artificial Intelligence offers researchers, engineers, students, scientists and industry professionals to an open forum where advances in the field of Engineering, Science and Artificial Intelligence can be shared and exchanged.

IJCESAI provides a leading interdisciplinary platform for researchers, engineers and scientists to discuss the latest innovations, trends and concerns and practical challenges encountered, and solutions adopted in the field of engineering, science and artificial intelligence. Leading researchers and industry experts from around the globe will be presenting the latest studies through papers and oral presentations.

June, 2022

İlyas Özer

Organization

Organization Committee

Dr. İlyas Özer (Bandırma Onyedi Eylül University, Turkey)

Dr. Kutlucan Gorur (Bandırma Onyedi Eylül University, Turkey)

Dr. Onursal Cetin (Bandırma Onyedi Eylül University, Turkey)

Technical Program Committee

Dr. İlyas Özer (Bandırma Onyedi Eylül University, Turkey)

Dr. Adem Dalcalı (Bandırma Onyedi Eylül University, Turkey)

Scientific Committee

Dr. Adem Dalcalı (Bandırma Onyedi Eylül University, Turkey)

Dr. Adib Habbal (Karabuk University, Turkey)

Dr. Akhmad Unggul (Darmajaya Institute of Informatics & Business, Indonesia)

Dr. Cemil Altin (Yozgat Bozok University, Turkey)

Dr. Esmail Mohammed (Higher Institute of Science and Technology Of Zawia, Libya)

Dr. Feyzullah Temurtaş (Bandırma Onyedi Eylül University, Turkey)

Dr. Hakan Kisioglu (Yozgat Bozok University, Turkey)

Dr. Halit Öztekin (Sakarya University of Applied Sciences, Turkey)

Dr. Ishnazarov Oybek (Institute of Energy Problems Academy of Sciences Of Uzbekistan)

Dr. İlyas Özer (Bandırma Onyedi Eylül University, Turkey)

Dr. Kemal Polat (Abant İzzet Baysal University, Turkey)

Dr. Khan Muhammad (Sejong University, Republic of Korea)

Dr. Kutlucan Gorur (Bandırma Onyedi Eylül University, Turkey)

Dr. Mehmet Emin Aydın (University of the West of England, England)

Dr. M. Kürşat Uçar (Sakarya University, Turkey)

Dr. M. Serdar Başçıl (Selçuk University, Turkey)

Dr Mohiuddin Ahmed (Edith Cowan University, Australia)

Dr. Mustafa Yaz (Yozgat Bozok University, Turkey)

Dr. Obid Tursunov (Tashkent Institute of Irrigation and Agricultural Mechanization Engineers" National Research University, Uzbekistan)

Dr. Olimjon Zuvurovich Toirov (Tashkent State Technical University, Uzbekistan)

Dr. Onursal Cetin (Bandırma Onyedi Eylul University, Turkey)

Dr. Paul Haskell-Dowland (Edith Cowan University, Australia)

Dr. Salimur Choudhury (Lakehead University, Canada)

Dr. Serkan Şenocak (Atatürk University, Turkey)

Dr. Sıtkı Akkaya (Sivas Science and Technology University, Turkey)

Dr. Ziyodulla Yusupov (Karabuk University, Turkey)

Dr. Zubair Fadlullah (Lakehead University, Canada)

Contents

Dünya Çapında Offshore Rüzgar Türbinleri ve Yeniden Tasarlanmış Bir Offshore Rüzgar Türbini <i>Turgut Keçici, İlyas Özer</i>	1
Depth Advanced Control of an Autonomous Underwater Robot <i>Hattab Abdellilah, Yahiaoui Kamel, Hattab Youcef</i>	15
E-bisiklet Şarj İstasyonları için FV Sistem Tasarımı <i>Metin Akdeniz, Serhat Berat Efe</i>	27
Delivery Time Prediction Using Support Vector Machine Combined with Look-back Approach <i>Oğuz Erdi Erkmen, Ece Nigiz, Z. Sude Sarı, H. Şebnem Arlı, M. Fatih Akay</i>	33
Makine Öğrenimi Modellerini Kullanan EMG Tabanlı Biyometrik Yaklaşımlar: Kısa Derleme <i>Kutlucan Görür, İlyas Özer, Onursal Çetin, Feyzullah Temurtas</i>	39
Alternatif Polimer Esaslı Malzemelerin Debriyaj Diski Stoperine Entegrasyonu <i>Serkan Cakmak, Ömer Yıldız, İbrahim Can Kaymaz, Ulaşcan Kurt, Caner Eş</i>	44
Bearing faults diagnosis using envelope analysis and 1D Convolutional neural network <i>Toumi Yassine, Bengherbia Billel, Benyazza Hamza, Ould Zmirli Mohamed</i>	53
Bearing faults diagnosis using cepstral analysis and 1D Convolutional neural network <i>Toumi Yassine, Bengherbia Billel, Rebiai Mohamed, Ould Zmirli Mohamed</i>	59
Comparison of Different Spectral Analysis Methods with an Experimental EEG Dataset <i>Hanife Göker</i>	65
Termal Görüntüleme Sistemleri İçin Yazılım Ürün Hattı Tasarımı <i>Zeynep Telli, Hacer Karacan</i>	73
Thermo-economic investigation of power generation using micro steam turbines in industrial facilities <i>İbrahim Akgün, Şaban Pusat, Hasan Hüseyin Erdem</i>	83
Bir Dinamik Seperator İncelemesi: Modal Analiz ve Campbell Diagramının Oluşturulması <i>Buğra ÇAVUŞOĞLU, Oğuz GÜVEN, Galip ÇAPÇI</i>	91
Fraud Detection with Machine Learning in Property Insurance Policy Requests <i>Sergül Ürgenç, Habip Kaplan, Ayça Çakmak Pehlivanlı</i>	97

Modelling and simulation of D-class current-fed parallel resonant inverter for induction heating system <i>Leyla Arslan, Harun Özbay</i>	106
PSIM simulation of voltage-fed series resonant inverter for induction heating systems <i>Muzaffer Çayır, Harun Özbay</i>	117
Dijital Baskı Prosesinin Beyaz Eşya Temperli Camlarına Uygulanmasının Araştırılması <i>Kerem KÖRPE</i>	127
Study of a Smarter AQM Algorithm to Reduce Network Delay <i>Aya Abdullah Ismael, Didem Kıvanç Türeli</i>	149
Yüksek Gerilim Güç Şebekesinde Oluşan İç ve Dış Kaynaklı Arızaların Analizi <i>Yiğit Esen, Serhat Berat Efe</i>	155
An Outlier Analysis on Multi-Dimensional and Time-Series Data <i>Ümmügülsüm MENGUTAYCI, Selma Ayşe ÖZEL</i>	162
Investigating the conductivity of silk and wool textiles by applying AgNPs and their performance analysis <i>Md Safuan Islam, Dicle ÖZDEMİR KÜÇÜKÇAPRAZ</i>	169
Estimation of monthly evapotranspiration in Hakkâri with wavelet transform and machine learning models <i>Okan Mert Katipoğlu</i>	180
Diagnosis of Diabetic Retinopathy Using Artificial Intelligence Techniques <i>Mehmet Akif Cifci</i>	181
High-efficiency interior-type PM motor design for urban use electric vehicles <i>Halil Gör</i>	182
Comparison of Total Phenolic Content and Antioxidant Activity of Some Gluten-Free Flour <i>Fundagül Erem</i>	183
Synthesis of phytotherapeutic Gypsophila eriocalyx nanoparticles and evaluation of the effect on Osteoporosis <i>Sibel Ozer, Ozan Baris Kurtur, Yasemin Budama-Kilinc, Serda Kecel-Gunduz</i>	184
Evaluation of Static and Dynamic Capacity Terms in Container Terminals <i>İdil Esra Elver, Esin Çevik</i>	185
Wind Energy <i>Emin Akdag, Zarina Oflaz</i>	186

Nonlinear Programming Technique For Reinforced Concrete Modeling <i>Semiha Hayriođlu Serkan Bekirođlu</i>	187
Human behavior vs Artificial Intelligence's logics: new evolution trajectories in the context of Asset Management <i>Domenico Felice, Marco Giorgino</i>	188
Determination of Yield and Quality Traits of Some Bread Wheat Genotypes Under Konya-Altinekin Conditions <i>Ahmet Konuk, Tuba Uzun, Saliha Mutlu, Merve Bykkakkařlar, Nursel l Keskin</i>	189
Waterborne illness cases in Turkey: an effective deep learning prediction method <i>Mehmet Akif ifi, Ozan Deniz</i>	190
Forecasting the daily electricity load produced from wind energy of Turkey via stacked long short-term memory model with peephole connections <i>Kamil Demirberk nl</i>	191
Sper Emici Polimer Sentez Yntemleri ve Uygulamaları <i>İrfan AR, Simay KK</i>	192
İplik Dayanımını Etkileyen Sre Parametrelerinin Taguchi Yntemi ile Optimizasyonu <i>Dilara Ertabak, Hakan Altunay</i>	193