ISMSIT2017

1st International Symposium on Multidisciplinary Studies and Innovative Technologies

ISMSIT 2017

ABSTRACTS BOOK

Gaziosmanpaşa University Tokat / Turkey November 2-4, 2017

ABSTRACTS BOOK
BİLDİRİ ÖZETLERİ KİTABI

International Symposium on Multidisciplinary Studies and Innovative Technologies

Gaziosmanpaşa University Tokat / Turkey November 2-4, 2017

I S M S I T 2017

1st International Symposium on Multidisciplinary Studies and Innovative Technologies

1. Uluslararası Multidisipliner Çalışmalar ve Yenilikçi Teknolojiler Sempozyumu

Gaziosmanpaşa University Tokat / Turkey November 2-4, 2017

Typesetting/Dizgi

Assist. Prof. Dr. Turgut ÖZSEVEN

Cover Design/Kapak Tasarım

Assist. Prof. Dr. Turgut ÖZSEVEN

Editors/Editörler

Assist. Prof. Dr. Turgut ÖZSEVEN

Assist. Prof. Dr. Ebubekir YAŞAR

Assoc. Prof. Dr. Ahmet FENERCİOĞLU

ISBN: 978-605-245-989-8

Publication Date: December 08, 2017

ismsitconf@ismsitconf.org

www.ismsitconf.org

Design and Investigation of In-Wheel Asynchronous Motor with Conical Geometry for Electric Vehicle 229
Augmenting computing capabilities of mobile devices with computation offloading using an online learning algorithm. 230
Kablosuz İşbirlikli Ağlarda Farklı Birleştirme Metotlarının Sistem Performansı Üzerindeki Etkisinin İncelenmesi 231
Karınca Kolonisi Algoritması ile Yazılım Proje Takvimi Oluşturma 232
Real-time Parental Voice Recognition System For Persons Having Impaired Hearing 234
Velocity Estimation of Turkish National Permanent GNSS Network- Active Points Located at Central Anatolia Region 235
Otomatik Ayarlamalı Sinir Hücresi ile Adaptif Kesir Dereceli PID Kontrolör Tasarımı 236
Bilişsel Radyo Sistemleri için Özdeğer Tabanlı Algılama Yöntemlerinde Performans Analizi 237
Yapay Sinir Ağları ile Tr81 Bölgesi Yıllık Elektrik Enerjisi Tüketiminin Tahmini 239
Farklı Oranda Nano Silika İçeren Kür Uygulamalarının Çimento Bağlayıcılı Kompozitlerin Dayanımına Etkisinin İncelenmesi 240
Automatic Data Download Program in Determination of a Regional Ionosphere Model 241
Zaman Gecikmesine Sahip Kesir Dereceli Bir Kontrol Sisteminde Optimizasyon Metodu Kullanılarak PID Kontrolör Tasarımı 242
CERTAIN RINGS and GROUP CODES 244
Development of the Road Analysis System to Provide the Fuel Efficiency Awareness in the Vehicles 245
Kesir Dereceli Kontrol Sistemlerinde Referans Modele Dayalı PID Kontrolör Tasarımı 246
İdeal Hayvan Yetiştiriciliği İçin Veri Madenciliğine Dayalı Bir Kds Çalışması 248
İstanbul Çeşidi Vişnenin (*Prunus cerasus* L.) Bazı Fiziksel Özellikleri ve Renk Değerlerinin Belirlenmesi 249
Grafen Takviyesinin Titanyum Matris Kompozitlerin Sertliğine ve Mikroyapısına Etkisi 250
Bilişsel Radyo Sistemleri için Kör Spektrum Algılama Yöntemlerinin Farklı Haberleşme Kanallarındaki Performans Analizi ... 251
On Muffler Design for Transmitted Noise Reduction 253
Handwriting Digit Classification with Complex Valued Neural Network 254
Flood Modeling by GIS Tools 255
Quasi-Cyclic Codes over the Field F_p 256
Estimation of Digital Elevation Model by Artificial Intelligence Methods 257
İmalat Çeliklerinin Tornalanmasında Kesme Parametrelerinin Yüzey Pürüzlülüğü Üzerine Etkisinin Analizi Ve Optimizasyonu 258
The Analysis of OCC and PI Control Method for Isolated Fly-Back Converter using PEM Fuel Cells 259
Equivalence of Codes over Finite Chain Ring 260
Designing and Manufacturing of a Modal Analysis Test Bench – Part one: Harmonic Shaker Development 261
Alzheimer Hastalarinda El Fonksiyonlarinin Bilgisayar Analizi İle Değerlendirilmesi 262
6 Sigma Süreç Yeterlilik İndeksi ile Adaptif PID Denetleyici Tasarımı 264
Complex event processing on collected sensors' data using Arduino 265
Sabit Hızlı Rüzgâr Türbinlerinde Kullanılan Bir Sincap Kafesli Asenkron Generatörün Şebeke Bağımsız Olarak Çalıştırılması ve Similasyonu 266
3B Yazıcıda Farklı Doluluk Oranlarının PET-G Malzemeden İmal Edilen Ürünlerin Mekanik Özelliklerine ve Yüzey Pürüzlülüğüne Etkisinin İncelenmesi 267
3B Yazıcıda Farklı Doldurma Şekillerinin PET-G Malzemeden İmal Edilen Ürünlerin Mekanik Özelliklerine ve Yüzey Pürüzlülüğüne Etkisinin İncelenmesi 268
Üç Fazlı Senkron Bir Makinenin Değişken Yük Durumları için Geçici Hal Sonlu Eleman Analizi 269
Pençe Kutuplu Senkron Bir Generatörün Geçici Hal Sonlu Eleman Analizi 271
Behavior of Composite and Box Profile under Impact Force 273
Authentication with Iris Recognition Based on a 3-Tier Security Analysis Approach 274

Honorary Committee

Prof. Dr. Mustafa ŞAHİN (Gaziosmanpaşa University, Rector, Tokat, Turkey)
Prof. Dr. Sefa TARHAN (Gaziosmanpaşa University, Dean, Faculty of Engineering and Natural Sciences, Tokat, Turkey)

Symposium Chair

Assoc. Prof. Dr. Ahmet Fenercioğlu, General Director of Tokat Teknopark, Turkey

Symposium Co-Chair

Assist. Prof. Dr. Turgut Özseven, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Ebubekir Yaşar, Gaziosmanpaşa University, Turkey

Organization Committee

Prof. Dr. İsa Gökçe, Gaziosmanpaşa University, Turkey
Prof. Dr. Özlem Akpınar, Gaziosmanpaşa University, Turkey
Prof. Dr. Bilge Hilal Çadırcı, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Ahmet Fenercioğlu, General Director of Tokat Teknopark, Turkey
Assoc. Prof. Dr. Mahmut Hekim, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Mehmet Akar, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Tekin Susam, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Ebubekir Yaşar, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Hüseyin Başdemir, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Kenan Zengin, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Mihriban Coşkun Arslan, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Mithat Şimşek, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Turgut Özseven, Gaziosmanpaşa University, Turkey

Secretary

Fatma Esin Tuna, Tokat Teknopark, Turkey
Lecturer Sadık Önal, Gaziosmanpaşa University, Turkey
Lecturer Hakan Çoban, Gaziosmanpaşa University, Turkey
Lecturer Serkan Şenkal, Gaziosmanpaşa University, Turkey
Lecturer Volkan Karaca, Gaziosmanpaşa University, Turkey
Res. Assist. Emre Gözüaçık, Gaziosmanpaşa University, Turkey

Scientific Committee

Prof. Dr. Ali Karcı, İnönü University, Turkey
Prof. Dr. Andrew Kusiak, The University of Iowa, USA
Prof. Dr. Ashok Kumar, Indian Institute of Technology-Kanpur, India
Prof. Dr. Bahtiyar Mehmetoğlu, Gaziosmanpaşa University, Turkey
Prof. Dr. Bilge Hilal Çadırcı, Gaziosmanpaşa University, Turkey
Prof. Dr. Filiz Ersöz, Karabük University, Turkey
Prof. Dr. Güven Çankaya, Ankara Yıldırım Beyazıt University, Turkey
Prof. Dr. Indubhushan Patnaikuni, RMIT University, Australia
Prof. Dr. İbrahim Uzmay, Erciyes University, Turkey
Prof. Dr. İsa Gökçe, Gaziosmanpaşa University, Turkey
Prof. Dr. Ljiljana Trajkovic, Simon Fraser University, Canada
Prof. Dr. Lucian N. Vintan, University of Sibiu, Romania
Prof. Dr. Mehmet Akbaba, Karabük University, Turkey
Prof. Dr. Mustafa Yaşar, Karabük University, Turkey
Prof. Dr. Nihat Akkuş, Marmara University, Turkey

Prof. Dr. Özlem Akpınar, Gaziosmanpaşa University, Turkey
Prof. Dr. Rui L. Reis, University of Minho, Portugal
Prof. Dr. Salah Nasri, United Arab Emirates University, UAE
Prof. Dr. Sefa Tarhan, Gaziosmanpaşa University, Turkey
Prof. Dr. Sergey Mikhalovsky, University of Brighton, UK
Prof. Dr. Sos Agaian, The University of Texas at San Antonio , USA
Prof. Dr. Şahin Yıldırım, Erciyes University, Turkey
Assoc. Prof. Dr. Ahmet Fenercioğlu, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Cemal Kaya, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Derya Dışpınar, İstanbul University, Turkey
Assoc. Prof. Dr. Diyar Akay, Gazi University, Turkey
Assoc. Prof. Dr. Fatma Meydaneri Tezel, Karabuk University, Turkey
Assoc. Prof. Dr. İlhan Eroğlu, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. İsmail Rakıp Karaş, Karabük University, Turkey
Assoc. Prof. Dr. M. Emin Aydin, University of the West of England, UK
Assoc. Prof. Dr. Mahir Dursun, Gazi University, Turkey
Assoc. Prof. Dr. Mahmut Hekim, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Mehmet Akar, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Muhammed Fatih Talu, İnonü University, Turkey
Assoc. Prof. Dr. Mustafa Aktaş, Karabük University, Turkey
Assoc. Prof. Dr. Mustafa Caner Aküner, Marmara University, Turkey
Assoc. Prof. Dr. Oğuz Fındık, Karabük University, Turkey
Assoc. Prof. Dr. Ömer Yıldırım, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Resul Daş, Fırat University, Turkey
Assoc. Prof. Dr. Şeniz Karabıyıklı, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Tekin Susam, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Ümran Çiçek, Gaziosmanpaşa University, Turkey
Assoc. Prof. Dr. Yahya Altupak, Abant İzzet Baysal University, Turkey
Assist. Prof. Dr. Alptekin Durmuşoğlu, Gaziantep University, Turkey
Assist. Prof. Dr. Aslıhan Demirdöven, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Benjamin Durakovic, International University of Sarajevo, Bosnie Herzégovine
Assist. Prof. Dr. Bülent Turan, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Canan Oral, Amasya University, Turkey
Assist. Prof. Dr. Cem Emeksiz, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Ceyhun Köse, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Ebubekir Yaşar, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Fatma Doğan Güzel, Ankara Yıldırım Beyazıt University, Turkey
Assist. Prof. Dr. Ferit Yakar, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Halil İbrahim Demir, Sakarya University, Turkey
Assist. Prof. Dr. Hilal İşleroğlu, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Kaveh Ostad-Ali-Askari, Islamic Azad University, Iran
Assist. Prof. Dr. Kazım Hanbay, Bingöl University, Turkey
Assist. Prof. Dr. Kenan Zengin, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Kıymet Berkil Akar, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Kubilay Yıldırım, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Levent Gökrem, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Mete Çelik, Erciyes University, Turkey
Assist. Prof. Dr. Mihriban Coşkun Arslan, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Mithat Şimşek, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Muharrem Düğenci, Karabük University, Turkey
Assist. Prof. Dr. Murat Canayaz, Yüzüncü Yıl University, Turkey
Assist. Prof. Dr. Murat Çavuş, Gaziosmanpaşa Üniversitesi, Türkiye
Assist. Prof. Dr. Mustafa Bayram, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Mürsel Önder, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Nurettin Üstkoyuncu, Erciyes University, Turkey
Assist. Prof. Dr. Özlem Eğri, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Recep Özdağ, Yüzüncü Yıl University, Turkey
Assist. Prof. Dr. Sinan Eğri, Gaziosmanpaşa University, Turkey

Assist. Prof. Dr. Taner Ersöz, Karabük University, Turkey
Assist. Prof. Dr. Turgut Özseven, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Ünal Kurt, Amasya University, Turkey
Assist. Prof. Dr. Yasemin Çetin Kaya, Gaziosmanpaşa University, Turkey
Assist. Prof. Dr. Yasin Kanbur, Karabuk University, Turkey
Assist. Prof. Dr. Zafer Doğan, Gaziosmanpaşa University, Turkey
Dr. Manuella Kadar, "1 Decembrie 1918" University of Alba Iulia, Romania
Dr. Muhammed Baykara, Fırat University, Turkey

ISMSIT 2017
1st International Symposium on Multidisciplinary Studies and Innovative Technologies
November 2-4, 2017 Gaziosmanpaşa University, Tokat, Turkey
www.ismsitconf.org

Flood Modeling by GIS Tools

Neslihan BEDEN*, Vahdettin Demir[2] and Asli ULKE[3]

[1]*Construction Department, Kavak Vocational School, Ondokuz Mayis University, Samsun, Turkey,*
[2]*Department of Civil Engineering, Faculty of Engineering, Ondokuz Mayis University, Samsun, Turkey*
[3]*Department of Civil Engineering, Faculty of Engineering, KTO Karatay University, Konya,Turkey*
**neslihan.beden@omu.edu.tr*

Abstract

In this study flood risks of Samsun Degirmen stream determinate by MIKE 11 and GIS.

In this study, MIKE powered by DHI software used for numerical 1D modeling of study area. The hydrological and hydraulic data for the study area were obtained from the Turkish General Directorate of State Hydraulic Works. ArcGIS program was used for creating a triangulated irregular network data (TIN).

The flood inundation maps demonstrated that some areas, from the upstream to downstream of the Degirmen stream basin is affected from 100 year and 500 year return period events.

Keywords: *MIKE 11, Flood modeling, GIS, Samsun, Turkey.*