



# Program

ENGINEERINGSCIENCE





**Meeting ID: 930 1369 8088 Password: 910549**

**09:30-10:00**

**Opening Remarks**

***Prof. Dr. Evren Meltem TOYGAR (Co-Chair)***

***Prof. Dr. Azize AYOL (Dean)***

10:00-11:45

Session 1:

Moderators: ***Assoc. Prof. Dr. Mustafa ÖZUYSAL***

**10:00-10:30**

**KEYNOTE SPEAKER: *Assoc. Prof. Dr. Ilgın YAŞAR***

**NEW TRENDS IN INTELLIGENT TRANSPORTATION SYSTEMS**

10:30-10:45  
SPEED

THE EFFECT OF CLOSELY SPACED SIGNALIZED INTERSECTIONS ON TRAVEL

***Ruti Politi \*; Serhan TANYEL***

10:45-11:00

THE EFFECT OF BEHAVIORAL DIFFERENCES ON EFFICIENCY OF  
SIGNALIZED INTERSECTION TRAFFIC FLOW

INVOLVING DRIVERLESS VEHICLES

***Ecem ŞENTÜRK BERKTAŞ \*; Serhan TANYEL***

11:00-11:15

EXAMINING THE EFFECTS OF VARIABLE MESSAGE SYSTEMS ON DRIVER  
BEHAVIOR AND TRAFFIC FLOW

***Yeşim Altıntaş ÖZTÜRK \*; Mustafa ÖZUYSAL***

11:15-11:30

EFFICIENT WATER MANAGEMENT IN WASHING MACHINE PRODUCTION,  
***Sevde Nur EFE\*, Nurdan BÜYÜKKAMACI***

11:30-11:45

DISTRIBUTION MODELING WITH RESPECT TO HEADWAYS AT SIGNALIZED  
INTERSECTIONS

***Sinem TOPUZ\*, Serhan TANYEL***

**11:45-13:00**

**LUNCH BREAK**

**ZOOM Link for 21th December 2023, Afternoon Session**

**<https://zoom.us/j/98738375692?pwd=NmFjMUlUL2VENlpgNjRlZGZKT3BoQT09>**

**Meeting ID: 987 3837 5692 Password: 336644**

13:00-14:30

Session 2:

Moderators: ***Assoc. Prof. Dr. Şahin YAVUZ***



***Emre KARAGOZ\*; Alpaslan TURGUT; Iskender KOKEY; Ziya Haktan KARADENİZ***

13:30-13:45 LINEAR STABILITY OF THIN LIQUID FILMS ON A HEATED SURFACE WITH VAN DER WAALS FORCE

***Bilge KIRACILAR, Umut CEYHAN***

13:45-14:00 NUMERICAL ANALYSIS OF A PERMANENT MAGNETIC ACTUATOR FOR MANIPULATION OF MAGNETIC NANOFUIDS

***Mehmet ERSÜ\*, Alpaslan TURGUT, Serkan DOĞANAY***

14:00-14:15 PHYSICAL PROPERTIES AND PRODUCTION OF SANDWICH COMPOSITE STRUCTURES WITH DIFFERENT CORE MATERIALS

***İkbal ÖZDEMİR\*, Evren M TOYGAR***

14:15-14:30 Slam algorithm implementation in the simulation program and the effect of the parameter on success

***İsmail BARTAL\*, Ahmet ÖZKURT***

14:30-15:00 COFFEE BREAK

15:00-16:30 Session 3:  
Moderators: ***Assoc. Prof. Dr. Serpil ÖZMIHÇI***

15:00-15:15 THE ROLE OF DIGITALIZATION ON THE ENVIRONMENT,  
***İsil DURMUŞ\*, Nurdan BÜYÜKKAMACI***

15:15-15:30 NON-STATONARY FREQUENCY ANALYSIS OF ANNUAL MAXIMUM STANDARD DURATION PRECIPITATION

***Ayşegül YARCI\*, Türkey BARAN***

15:30-15:45 AN EXAMINATION OF THE CONCENTRATIONS OF ARSENIC AND HEAVY METALS IN VEGETABLES, FRUITS,

AND EDIBLE WILD PLANTS SOURCED FROM VARIOUS ORIGINS

***Berkay TÜMER\*, Görkem AKINCI; Serpil ÖZMIHÇI***

15:45-16:00 Using Generative Adversarial Networks for Enhanced Augmentation on Natural Disaster

***Shivam PANDEY, Shikha GUPTA***

16:00-16:15 ESTIMATION OF BIOFUEL PRODUCTION PONTENTIAL FROM BIOMASS IN AYDIN,

***Adnan DÜZEN\* Serpil ÖZMIHÇI***

16:15-16:30 SEABED MAPPING AND CLASSIFICATION USING BY SIDE SCAN SONAR

***İbrahim ÜNALMIŞ***



**22.12.2023 Friday**



10:00-12:00

Session 4:

Moderators: *Assoc.Prof.Dr. Şükran KARA***10:00-10:30**

**KEYNOTE SPEAKER: *Fatma YALÇINKAYA***  
**NANOFIBER: HISTORICAL DEVELOPMENT AND FUTURE**  
**PROSPECTS - DIVERSE APPLICATIONS**  
**FROM COSMETICS TO ENERGY**

10:30-10:45  
INVESTIGATION

NOVEL CONDUCTING COMPOSITE COATINGS AS TEMPERATURE SENSOR: AN  
 ON THE EFFECTS OF BIOCHAR CONCENTRATION  
*Özgür Yasin KESKİN\*; Mustafa EROL*

10:45-11:00

**THE IMPACT OF ARTIFICIAL INTELLIGENCE ON ADDITIVE**  
**MANUFACTURING: ADVANCES AND OPPORTUNITIES**  
*(WITHDRAWN) Tolga Berkay SİRİN\**

11:00-11:15  
THIN FILMS ON

AN INVESTIGATION ON THE PROPERTIES OF ELECTRODEPOSITED NICKEL  
 TRANSPARENT CONDUCTIVE OXIDE COATED GLASS  
*Erdem Tevfik ÖZDEMİR\*; Mustafa EROL*

11:15-11:30

PERMEABILITY AND LIQUID MANAGEMENT PROPERTIES OF NONWOVEN  
 FABRICS MADE OF BIODEGRADABLE FIBERS  
*Gökberk DEVRİM, Vildan SULAR, Duygunur BOZANER, Sukran KARA*

11:30-11:45  
AND TEXTILES

SLA (STEREOLITHOGRAPHY) 3D PRINTING FOR TEXTILE-LIKE STRUCTURES  
*Nazmiye Tufan TOLMAÇ, Özlenen Erdem İŞMAL*

12:00-13:00LUNCH BREAK**ZOOM Link for 22th December 2023, Afternoon Session**

<https://zoom.us/j/98738375692?pwd=NmFJMUIUL2VENlpgNjRIZGZKT3BoQT09>

**Meeting ID: 987 3837 5692 Password: 336644**

13:00-14:30

Session 5:

Moderators: *Assoc.Prof. Dr. Ebru ÇOKAY***13:00-13:30**

**KEYNOTE SPEAKER: *Dr. Pınar EROL***  
**SUSTAINABILTY IN MANAGEMENT**



13:30-13:45

Co- and Individual Pyrolysis of Polypropylene and Polystyrene: Experimental



**14:00-14:15** THE ROLE OF PHREEQC MODEL AND SENSOR ANALYSIS IN CHEMICAL COAGULATION PROCESSES SUPPORTED BY ONLINE SENSORS

**(WITHDRAWN) Meltem Sarp AKARSU\*; Sevgi Tokgöz GÜNEŞ**

**14:15-14:30** CLIMATE CHANGE RESISTANT RESIDENCES: SUSTAINABLE WATER, ENERGY AND SOLID MANAGEMENT

**Melis ERDOĞAN, Ayşe FİLİBELİ**

**14:30-14:45** COFFEE BREAK

**14:45-16:00**

Session 6:

Moderators: **Prof.Dr. Serkan MISIR**

**14:45-15:15** KEYNOTE SPEAKER: **Prof. Dr. Şevket ÖZDEN**  
**SEISMIC STRENGTHENING OF REINFORCED CONCRETE FRAMES WITH CFRP OVERLAYS**

**15:15-15:30** INCREMENTAL DYNAMIC ANALYSIS OF A SINGLE STOREY PRECAST CONCRETE BUILDING WITH DIFFERENT HEIGHTS

**Cem GÖKSOY\*, Sadık Can GİRGIN, Vesile Hatun AKANSEL**

**15:30-15:45** EARTHQUAKE PERFORMANCE EVALUATION AND RETROFITTING OF AN EXISTING CONCRETE

PREFABRICATED INDUSTRIAL BUILDING UNDER THE BUILDING EARTHQUAKE CODE OF TURKEY-2018

**Emine DAŞ, İbrahim Serkan MISIR**

**15:45-16:00** COMPARISON OF FIELD MEASUREMENT AND FINITE ELEMENT SOFTWARE RESULTS OF SHORING STRUCTURES

SUPPORTED WITH HIGH MODULUS COLUMNS IN TOE AREA

**Tayyar İlke HAMURSUZ\*; Okan ÖNAL**

**16:00-16:15** COFFEE BREAK

**16:15-17:30**

Session 7:

Moderators: Assistant **Prof. Dr. Ayşe Uğurcan ATMACA**

**16:15-16:30** STRUCTURAL PROBLEMS IN KALEGUNEY TRADITIONAL RURAL HOUSES

**İrem UZUNER, Müjgan KARATOSUN**

**16:30-16:45** NUMERICAL INVESTIGATION OF A MULTI-LINEAR MODEL FOR PRECAST HYBRID BEAM-COLUMN CONNECTIONS

**Muhammad Saqib SODAGAR\*; Sadık Can GİRGIN; Halil DİNÇER**

**16:45-17:00** THE EFFECT OF EXPLOSIVE WEIGHT AND STAND-OFF DISTANCE ON THE BLAST PRESSURE ON STRUCTURES



**Sertaç DERELİ, Hasan Murat TANARSLAN, Çağlar YALÇINKAYA**











The Graduate School of Natural and Applied Sciences

