



International Symposium on Advanced Engineering Technologies
Kahramanmaraş / Turkey, 16th-18th June 2022



| DERSLİK I: YEŞİLGÖZ | | 16 June 2022 / THURSDAY |
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| GEOLOGICAL ENGINEERING | | |
| Chairpersons: R. Asst. Fahriye GEMCİ, R. Asst. Oğuzhan KAPUKAYA | | |
| 12:30 – 12:45 | ASSOC. PROF. DR. CRISTIAN POPESCU | "ORGANIC FARMING SYSTEMS IN THE EUROPEAN UNION GREEN DEAL CONTEXT" |
| 12:45 – 13:00 | PROF. DR. ALI POLAT | "ARCHEAN PLATE TECTONICS: FIELD EVIDENCE FROM WEST GREENLAND" |
| 13:00 - 13:15 | DR. HANS VAN DER KWAST | "OPEN-SOURCE GIS SOFTWARE AND TOOLS FOR HYDROLOGY" |
| 13:15 - 13:30 | SENEM TEKİN | "PAST TO THE FUTURE WITH CLIMATE SCENARIOS ASSESSMENT OF THE ADIYAMAN PROVINCE" |
| 13:30 - 13:45 | HAKAN GÜNEYLİ, EBUBEKİR MEHMETOĞULLARI, SÜLEYMAN KARAHAN | "THE EFFECT OF DIFFERENT FILLING MATERIALS AND GRAIN SIZE DISTRIBUTION ON PHYSICO-MECHANICAL PROPERTIES OF BUILDING MATERIALS" |
| 13:45 - 14:00 | HAKAN GÜNEYLİ, SEVINÇ YEŞİLTAŞ | "THE RELATIONSHIP BETWEEN PLASTICITY INDEX AND SWELLING PROPERTIES ON CLAYED SOILS" |
| 14:00 - 14:15 | CİHAN YALÇIN , YUSUF URAS | "ALTERATION GEOCHEMISTRY OF LEAD MINERALIZATION IN NORTHERN OF DADAĞLI (KAHRAMANMARAŞ)" |
| 14:15 - 14:30 | CİHAN YALÇIN, YUSUF URAS | "FLUID INCLUSION PROPERTIES OF VEIN TYPE LEAD MINERALIZATION IN NORTH OF DADAĞLI (KAHRAMANMARAŞ)" |
| 14:30 - 14:45 | MELİH BAŞARANER, DAMLA YETGİN | "A GEOGRAPHICAL INFORMATION SYSTEM-BASED SPATIAL APPROACH TO MARITIME BOUNDARY DELIMITATION" |
| 14:45 - 15:00 | ALICAN KOP , SAİT ŞAHİN, YUSUF URAS | "THE CONTRIBUTION OF GEOLOGICAL FEATURES TO THE ECONOMIC DEVELOPMENT OF EKİNÖZÜ (KAHRAMANMARAŞ)" |
| 15:00 – 15:15 | YUSUF TOPAK | "THE TEMPORAL EVOLUTION OF THE ADANA BASIN: THE KUZGUN FORMATION" |
| 15:00 - 15:15 | COFFEE - TEA BREAK | |
| FOOD ENGINEERING | | |
| Chairpersons: R. Asst. Mehmet DİREKLİ, R. Asst. Elif ÇELİK | | |
| 15:15 – 15:30 | MURAT EMRE TERZİOĞLU, İHSAN BAKIRCI | "BUFFALO MILK AND YOGURT IN DAIRY TECHNOLOGY" |
| 15:30 – 15:45 | MURAT EMRE TERZİOĞLU, İHSAN BAKIRCI | "PESTICIDE RESIDUES IN MILK AND DAIRY PRODUCTS" |
| 15:45 - 16:00 | ÖZLEM KALLI KABACIK, KENAN SINAN DAYISOYLU | "INVESTIGATION OF THE EFFECT OF DIFFERENT BRINE CONDITIONS ON THE QUALITY OF MARAŞ SIKMA CHEESE" |
| 16:00 - 16:15 | BURHAN KABACIK, KENAN SINAN DAYISOYLU, ÖZLEM KALLI KABACIK | "FUNCTIONAL PROPERTIES OF HAWTHORN FRUIT, MARMALADE AND JAM PRODUCTION" |
| 16:15 - 16:30 | FIRUZE ERGİN, HATİCE KÜBRA KIZILAY, MUAMMER DEMİR, AHMET KÜÇÜKÇETİN | "ENCAPSULATION OF β -CAROTENE PRODUCED FROM MORTIERELLA RAMANNIANA WITH USING FREEZE-DRYING" |
| 16:30 - 16:45 | FIRUZE ERGİN, MERVE AL, AHMET KÜÇÜKÇETİN | "DETERMINATION OF PHYSICO-CHEMICAL PROPERTIES OF AYRAN PRODUCED FROM DIFFERENT MILKS" |
| 16:45 - 17:00 | İSMAİL VARLI, FATMA NUR ARSLAN | "SYNCHRONOUS FLUORESCENCE SPECTROSCOPY METHODS BASED ON CHEMOMETRIC DATA ANALYSIS APPROACH: CLASSIFICATION AND ADULTERATION OF EXTRA-VIRGIN OLIVE OILS IN MUT (MERSİN) REGION" |
| 17:00-17:15 | BAHİRİ ÖZSİSLİ, BÜŞRA AŞKIN | "THE USE OF HONEY AS BINDING MATERIALS IN GRAIN BAR AND VARIOUS" |



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| | MOLASSES MADE WITH TRADITIONAL WAYS AND DETERMINATION OF SOME PROPERTIES" |
| DERSLİK II: YEDİKUYULAR 16 June 2022 / THURSDAY | |
| MECHANICAL ENGINEERING Chairpersons: Prof.Dr. Ahmet KAYA, Asst. Prof. Dr. Özdeş ÇERMİK, R. Asst. Muhammet İbrahim AŞÇI | |
| 13:00-13:15 | ERDEM ALIÇ "NUMERICAL SIMULATION OF VAPOR BUBBLE MOVEMENT IN POOL BOILING HEAT TRANSFER" |
| 13:15 - 13:30 | MUHARREM İMAL "ECONOMIC ANALYSIS OF A FLOATING SOLAR POWER PLANT ON MENZELET DAM LAKE IN KAHRAMANMARAŞ" |
| 13:30 - 13:45 | MUHARREM İMAL "ECONOMIC ANALYSIS OF A SOLAR POWER PLANT OF THE GAZİANTEP UNIVERSITY CAMPUS: CASE STUDY" |
| 13:45 - 14:00 | MUHARREM İMAL, KUBRA BAYSAN "AN APPLICATION OF ARTIFICIAL NEURAL NETWORK IN MANUFACTURING SECTOR" |
| 14:00 - 14:15 | HÜSEYİN ŞANLI, FEVZİ YAŞAR "KINEMATIC VISCOSITY, DENSITY AND FLASH POINT VALUES OF BODIESELS PRODUCED FROM DIFFERENT FEEDSTOCKS" |
| 14:15 - 14:30 | ABDUSSAMED KABAKUŞ "OPTIMIZATION OF PARAMETERS AFFECTING HEAT TRANSFER WITH IMPINGEMENT JET COOLING BY TAGUCHI METHOD" |
| 14:30 - 14:45 | AHMET NUMAN ÖZAKIN "OPTIMIZATION OF HEAT TRANSFER CHARACTERISTICS IN A HORIZONTAL PIPE WITH TURBULATORS IN DIFFERENT GEOMETRY BY TAGUCHI METHOD" |
| 14:45 - 15:00 | ADEM ÖZÇELİK "EXPLORING THE POTENTIAL OF ELECTRIC FIELD DRIVEN MICROROD ACTUATION" |
| 15:00 - 15:15 | COFFEE - TEA BREAK |
| 15:15 - 15:30 | NECMİ DÜŞÜNCELİ "PECULIARITIES OF LONG-TERM AND SHORT-TERM CREEP BEHAVIOUR OF POLYPROPYLENE" |
| 15:30 - 15:45 | MUSTAFA KAPTANOĞLU "INVESTIGATION OF THE METAL MATRIX COMPOSITE COATINGS REINFORCED B4C PARTICLES USING MAG WELDING TECHNIQUE" |
| 15:45 - 16:00 | NEBİBE PALA "SEATING AREA DESIGN FOR THE PHYSICAL ERGONOMICS EVALUATIONS WITH VIRTUAL REALITY DURING AUTOMOTIVE DESIGN" |
| 16:00 - 16:15 | BERİL ÖZÇELİK "FINITE ELEMENT ANALYSIS OF THE MANDIBULA" |
| 16:15 -16:30 | NECAT TABAK, MEHMET DAŞ "NUMERICAL INVESTIGATION of THE EFFECTS of DIFFERENT ABSORBER PLATE TYPES on THE THERMAL PERFORMANCE of A SOLAR AIR COLLECTOR" |
| COMPUTER ENGINEERING Chairpersons: Asst. Prof. Dr. Hasan BADEM, R. Asst. Mehmet DİREKLİ | |
| 16:30 – 16:45 | ANIL UTKU, ÜMİT CAN "MACHINE LEARNING BASED AIR QUALITY PREDICTION: A CASE STUDY FOR LONDON" |
| 16:45 - 17:00 | AHMET ERKAN ÇELİK, EMRAH SEZER "A PROPOSAL TO CUSTOMER LIFETIME VALUE CALCULATIONS OF COMPANIES IN TURKEY" |
| 17:00 - 17:15 | AHMET ERKAN ÇELİK, EMRAH SEZER "A PROPOSAL FOR CONJUNCTIONAL CUSTOMER LIFETIME VALUE CALCULATION FOR COMPANIES IN DIFFERENT SECTORS IN TURKEY" |
| 17:15 - 17:30 | İBRAHİM ARUK, MEHMET KAMIL MÜLAYİM, TURAB SELÇUK, SELÇUK ÖKDEM "SEMANTIC SEGMENTATION OF MELANOMA FROM DERMOSCOPIC IMAGES" |
| 17:30-17:45 | HASAN BADEM, TUĞBA İNNECİ "CLASSIFICATION OF CORNEAL ULCER WITH DEEP LEARNING" |



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| TEXTILE ENGINEERING Chairpersons: Prof. Dr. Yasemin KORKMAZ, Asst. Prof. Dr. Erdem ALIÇ | | |
| 09:30 – 09:45 | BURAK OZTAS, YASEMIN KORKMAZ, HALİL İBRAHİM CELİK "INVESTIGATION OF DEFECTS OCCURRING DURING THE MANUFACTURING PROCESS OF FIBER-REINFORCED COMPOSITE MATERIALS BY ULTRASONIC C-SCAN METHOD" | |
| 09:45 – 10:00 | BETÜL KALEBAYIR DAĞPARÇASI, ÖMER BERK BERKALP, GAYE KAYA "UPCYCLING OF HEMP WASTE" | |
| 10:00 – 10:15 | TUĞÇE YAĞMUR ÖĞÜT, TÜLİN KAYA, TUĞÇE YAĞMUR ÖĞÜT, KUBILAY ÖZDEN, BANU YEŞİM BÜYÜKAKINCI "DYEING OF ECOCELL® KNITTED FABRICS WITH NATURAL DYES USING MICROWAVE ENERGY" | |
| 10:15 – 10:30 | CEMİLE EMEL YAZ, CEM GÜNEŞOĞLU, MEHMET TOPALBEKİROĞLU "EFFECTS OF POLYMER BLENDING ON MECHANICAL BEHAVIORS OF CARPET PILE YARNS" | |
| 10:30-10:45 | COFFEE - TEA BREAK | |
| FUNDAMENTAL SCIENCES AND MATHEMATICS Chairpersons: Asst. Prof. Dr. Füsün YALÇIN, R. Asst. Vahdet ALTUN | | |
| 10:30-10:45 | AYNUR ÇOT, FERHAN TÜMER, FATMA BETÜL ÖZGERİŞ, İSRAFIL TOZLU "SYNTHESIS OF DIARYLMETHANOL-BASED 1,2,3-TRIAZOLS AND DETERMINATION OF ANTI-CANCER ACTIVITIES" | |
| 10:45 – 11:00 | HAKAN GÜNEYLI, MUSAB MALASI "SOIL REINFORCEMENT BY USING SYNTHETIC FIBERS IN TURKEY- A REVIEW" | |
| 11:00 – 11:15 | KALYSKAN B. MATANOVA, ADINA N. ASHYRBEKOVA "INVERSE PROBLEM FOR A THIRD-ORDER PARTIAL DIFFERENTIAL EQUATION WITH VARIABLE COEFFICIENTS" | |
| 11:15 – 11:30 | MERVE GÜNEŞ, HÜSEYİN AKSOY, ALI AHMET BERBER, NESRİN EMRE, BURÇIN YALÇIN, FARUK PAK, ÖZGÜR AKTAŞ, CAFER BULUT, HÜSEYİN AKSOY, YILMAZ EMRE, BÜLENT KAYA "DETERMINATION OF HEAVY METAL ACCUMULATION AND GENOTOXIC DAMAGE IN LAKE İZNIK" | |
| 11:30 – 11:45 | JALE NAKTİYOK, ABDULKADİR ÖZER "THERMAL DECOMPOSITION OF ZINC HYDROXY SULFATE (ZnSO ₄ (OH) ₆) SYNTHESIZED IN BORAX, HMT and NaOH MEDIA" | |
| 11: 45- 12:00 | JALE NAKTİYOK, ABDULKADİR ÖZER "DEFINITION THE SELF-HEATING TEMPERATURES OF DIFFERENT RANK COALS BY TGA ANALYSIS" | |
| 12:00-12:15 | YUSUF URAS "INVESTIGATION OF HYDROCHEMICAL CHARACTERISTICS OF GROUNDWATER IN THE KAHRAMANMARAS AQUIFER" | |
| 12:00 – 13:00 | LUNCH BREAK | |
| CIVIL ENGINEERING Chairpersons: Prof.Dr. Hüseyin TEMİZ, R. Asst. Betül PAKÖZ | | |
| 13:00 - 13:15 | BAHADIR ERSOY ULUSOY, SEVİL KÖFTECİ "INVESTIGATION OF THE ENVIRONMENTAL EFFECTS OF A SIGNAL PLAN CHANGE MADE AT A SIGNALIZED INTERSECTION IN ANTALYA BY TRAFFIC SIMULATION" | |
| 13:15 - 13:30 | SHUKROLLAH REZAI, OSMAN YILDIZ "LOW FLOW ANALYSIS IN THE KIZILIRMAK RIVER BASIN (Turkey)" | |
| 13:30 - 13:45 | KIVANÇ TAŞKIN, KEREM PEKER, MÜGE ÇELİK "STRUCTURAL HEALTH MONITORING OF HIGH STRUCTURE WITH DIFFERENT DYNAMIC PROPERTIES" | |
| 13:45 - 14:00 | HURİYE S ERDOĞAN, MEHMET ÜNSAL "MEASUREMENT OF WATER SURFACE PROFILES, IN THE NARROWING OPEN CHANNEL AT DIFFERENT POINTS" | |
| 14:00 - 14:15 | ZEHRA H TUR, EREN BALABAN "BEHAVIOR OF GEOSYNTHETIC REINFORCED PILE SUPPORTED EMBANKMENTS UNDER DYNAMIC LOADS" | |



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| 14:15 - 14:30 | ISMAIL UNSAL, NURULLAH BALCA "INVESTIGATION OF THE EFFECTS OF DIFFERENT STRUCTURAL SYSTEM TYPES ON RAFT FOUNDATION DESIGN" |
| 14:30 - 14:45 | AYŞEGÜL KOÇ, A. İLKER AKGÖNEN "INVESTIGATION OF THE WHITMORE METHOD ON GUSSET PLATES" |
| 14:45 - 15:00 | MINE KEKLİK ÖNAL, MEHMET ÜNSAL "USING GATED CONDUITS FOR IRON REMOVAL FROM DRINKING" |
| 15:15 - 15:30 | EREN GÖDEK, KAMILE TOSUN FELEKOĞLU "EFFECT OF LENS TYPE TO STRAIN MEASUREMENTS OF ENGINEERED CEMENTITIOUS COMPOSITES BY DIGITAL IMAGE CORRELATION" |
| 15:15 - 15:30 | COFFEE - TEA BREAK |
| AGRICULTURE AND NATURAL SCIENCES Chairpersons: Prof. Dr. Emine İKİKAT TÜMER, Dr. Çağrı UZAY | |
| 15:15-15:30 | HASAN BURAK AĞIR "IMPACT ASSESSMENT IN AGRICULTURAL ECONOMICS RESEARCH: PROPENSITY SCORE MATCHING METHOD" |
| 15:30- 15:45 | M. İSA TONTUŞ, MEHMET TÜMER "SYNTHESIS AND CHARACTERIZATION OF GRAPHENE OXIDE BASED HYBRID MATERIALS" |
| 15:45 - 16:00 | BÜŞRA AKBABA, EMINE İKİKAT TÜMER "DETERMINATION OF FARMERS' SENSITIVITY TO THE ENVIRONMENT: THE CASE OF TÜRKÖĞLU DISTRICT OF KAHRAMANMARAŞ" |
| 16: 00 - 16:15 | TUĞBA GÜNAYDIN, FATMA AKBAY, SEDA ARIKAN, MUSTAFA KIZILŞİMŞEK "COMPOSITION OF EPIPHYTIC MICROORGANISM IN SOME PLANT PARTS OF SOME HYBRID SILAGE CORN VARIETIES AND THEIR POTENTIAL EFFECTS ON WHOLE CROP SILAGE QUALITY" |
| 16:15 - 16:30 | İOSIF VOLFFSON, ISKHAK FARKHUTDINOV, MARINA PROZOROVA "THE TWENTIETH ANNIVERSARY OF MEDICAL GEOLOGY ARRIVAL IN RUSSIA: HISTORY, STATE AND PROSPECTS OF THE SCIENTIFIC BRANCH" |
| 16:30 - 16:45 | ANASTASIYA ZLOBINA, ISKHAK FARKHUTDINOV "URANIUM CONTENT IN DRINKING WATER SALT DEPOSITS AND IN CHILDREN'S HAIR" |
| 16:45 - 17:00 | GRADIMIR V. MILOVANOVIĆ "QUADRATURE PROCESSES IN ELECTROMAGNETIC FIELD PROBLEMS AND TELECOMMUNICATIONS" |

DERSLİK II: YEDİKUYULAR

17 June 2022 / FRIDAY

INDUSTRIAL ENGINEERING

Chairpersons: Asst. Prof. Dr. Fethullah GÖÇER, R. Asst. Oğuzhan KAPUKAYA

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| 09:15 - 09:30 | ASSOC. PROF. DR. HASAN H. TURAN "SIMULATION-BASED OPTIMIZATION IN DEFENSE ASSET MANAGEMENT AND RESOURCE PLANNING" |
| 09:30 - 09:45 | CEMİLE DOĞRULUK, FETHULLAH GÖÇER "A NEW APPROACH TO DETERMINING THE SELECTION CRITERIA FOR ENTERPRISE RESOURCE PLANNING SOFTWARE" |
| 09:45 - 10:00 | SEDA HATİCE GÖKLER, SEMRA BORAN "IMPROVEMENT OF MOLD CHANGE TIMES USING INTEGRATED SMED-WORK STUDY APPROACH" |
| 10:15 - 10:30 | COFFEE - TEA BREAK |

ELECTRICAL ELECTRONICS ENGINEERING

Chairpersons: Asst. Prof. Dr. Turab SELÇUK, Asst. Prof. Dr. Mustafa TEKİN

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| 10:30 - 10:45 | NILAY BAYGIN, ERDAL MUSTAFA YEĞİN, KORHAN KARAARSLAN "EVALUATION OF LI-ION BATTERY STANDARDS FOR SUBMARINE PROPULSION SYSTEMS" |
| 10:45 - 11:00 | HALİL E BAZ, AHMET S YILMAZ "MODELING OF DC-DC BUCK TYPE CONVERTERS BY STATE SPACE AVERAGING MODEL" |
| 11:00 - 11:15 | SULEYMAN ADAK, RIDVAN KAYA, HASAN CANGI, AHMET S YILMAZ "THE EFFECT OF ELECTRIC VEHICLE AND CHARGING STATIONS ON THE MICROGRID" |



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| 11:15 – 11:30 | MELİHA RIGAN, ÖKKEŞ FATİH KEÇECİOĞLU, MUSTAFA ŞEKKELİ "BATTERY MANAGEMENT SYSTEM DESIGN OF ELECTRIC VEHICLES" |
| 11:30 – 11:45 | M. MINE OZYETKİN "AN APPLICATION OF ARTIFICIAL PANCREAS USING FRACTIONAL-ORDER CONTROLLERS" |
| 11: 45- 12:00 | ERDAL KILIÇ "REINFORCEMENT LEARNING BASED PI SPEED CONTROLLER OPTIMIZATION IN INDUCTION MOTOR DRIVES" |
| 12:00 – 13:00 | LUNCH BREAK |
| 13:00 - 13:15 | ÖZGÜR YÜCEL, KORHAN KARAARSLAN, MUSTAFA YEĞİN "RECONFIGURATION STUDIES OF ELECTRICAL DISTRIBUTION NETWORKS USING PSO ALGORITHM" |
| 13:15 - 13:30 | YUSUF DAL, AHMET S YILMAZ "BI-DIRECTIONAL DC-DC CONVERTER TOPOLOGIES AND SIMULATION IN ELECTRIC VEHICLES" |
| 13:30 - 13:45 | SEMA ÖKDİM, SEMRA İÇER "COMPARISON OF DEEP LEARNING ALGORITHMS PERFORMANCE IN CLASSIFICATION OF GLIOMA BRAIN TUMORS" |
| 13:45 - 14:00 | ÖKKEŞ FATİH KEÇECİOĞLU, ERDAL KILIÇ, RAMAZAN AKDERE "GMPP PREDICTION METHOD BASED ON ARTIFICIAL NEURAL NETWORK FOR PV SYSTEM" |
| 14:00 - 14:15 | MEHMET İSMAİL GÜRSOY "CLASSIFICATION OF EEG SIGNALS FOR EPILEPSY SEIZURE DETECTION USING DISCRETE WAVELET TRANSFORM AND MACHINE LEARNING" |
| 14:15 - 14:30 | KADİR ABACI, VOLKAN YAMAÇLI, AYKAN BÖLÜKBAŞI "VECTORAL CONTROL OF VSC-HVDC CONNECTED TO WEAK AC SYSTEMS" |
| 14:30 - 14:45 | MELİHA RIGAN, ÖKKEŞ FATİH KEÇECİOĞLU, HACI ÖMER DOKUMACI "DETECTION OF INTEGRATED CIRCUITS ON PRINTED CIRCUIT BOARDS BASED ON DEEP LEARNING" |
| 14:45-15:00 | SABRI MURAT KISAKUREK "REACTIVE POWER OPTIMIZATION WITH PHOTOVOLTAIC INVERTERS" |
| ENVIRONMENTAL ENGINEERING Chairpersons: Prof.Dr. Kevser CİRİK, Dr. Onur IŞIK | |
| 15:00 – 15:15 | MEHMET KOBYA, MUSTAFA DOLAZ, NURAN ÇELİKÇİ "APPLICATION OF CONTINUOUS FLOW ELECTROCOAGULATION PROCESS FOR METALWORKING WASTEWATER TREATMENT" |
| 15:15 - 15:30 | FATİH ERDEM, HAKAN GÜNEYLİ "INVESTIGATION OF POLYMERS USED IN PLASTIC MANUFACTURING FACILITY IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY" |
| 15:30 - 15:45 | HAKAN GÜNEYLİ, HAKAN SARI "INVESTIGATION OF THE RELATIONSHIP BETWEEN THE HEAVY WORKLOAD STATUS OF EMPLOYEES AND THEIR OCCUPATIONAL SAFETY BEHAVIORS" |
| 15:45-16:00 | MEHMET KOBYA, MUSTAFA DOLAZ, NURAN ÇELİKÇİ "TREATMENT OF COOLING WASTEWATERS FROM IRON & STEEL PLANT BY ELECTROCOAGULATION" |