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# INDEX

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# **BOOK OF PROCEEDINGS OF THE II INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS)**

**24-28 MAY 2016, SARAJEVO, BOSNIA AND HERZEGOVINA**

## **Edited by**

Prof. Dr. Özer Çınar

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On behalf of the organizing committee, we are pleased to announce that the 2<sup>nd</sup> International Conference on Engineering and Natural Sciences (ICENS 2016) is held from May 24 to 28, 2016 in Sarajevo, Bosnia and Herzegovina. ICENS 2016 provides an ideal academic platform for researchers to present the latest research findings and describe emerging technologies, and directions in Engineering and Natural Sciences issues. The conference seeks to contribute to presenting novel research results in all aspects of Engineering and Natural Sciences.

The conference aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about all aspects of Engineering and Natural Sciences. It also provides the premier interdisciplinary forum for scientists, engineers, and practitioners to present their latest research results, ideas, developments, and applications in all areas of Engineering and Natural Sciences. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. ICENS 2016 is the oncoming event of the successful conference series focusing on

Engineering and Natural Sciences. The scientific program focuses on current advances in the research, production and use of Engineering and Natural Sciences with particular focus on their role in maintaining academic level in Engineering and Applied Sciences and elevating the science level.

The conference's goals are to provide a scientific forum for all international prestige scholars around the world and enable the interactive exchange of state-of-the-art knowledge. The conference will focus on evidence-based benefits proven in clinical trials and scientific experiments.

Best regards,

Chairman of Conference

**Prof. Dr. Özer ÇINAR**

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<b><u>LONG TERM PERFORMANCE OF A PILOT ANAEROBIC DIGESTER FED BY MUNICIPAL SOLID WASTE AND EFFECT OF TRACE METAL ADDITION (DUYGU KARAALP YAVUZYLMAZ, KUBRA ARSLAN, TUGBA KESKIN GUNDOĞDU, NURİ AZBAR) .....</u></b>	<b>1202</b>

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<b>A NUMERICAL INVESTIGATION OF CYCLIC BEHAVIOR OF COUPLED WALL SYSTEMS (HASAN SESLI, S. ISTEMIHAN COSGUN, METIN HUSEM).....</b>	<b>1460</b>
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<b>INVESTIGATION OF SERVICE QUALITY IN E-COMMERCE WEBSITES WITH STRUCTURAL EQUATION MODEL (MEHMET CABIR AKKOYUNLU, MERVE TUTUNCU, ZEYNEP DEMIRKOL, COSKUN OZKAN) .....</b>	<b>1479</b>
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## Chapter 7

<b><u>MULTI TOKEN CIRCULATION IN A COMMON CHANNEL FOR LOCATION INFORMATION SHARING IN MULTI-UAV SYSTEMS (EYUP EMRE ULKU, ILKER BEKMEZCI) .....</u></b>	<b>1525</b>
<b><u>INVESTIGATION OF WEAK MOTION STATION'S SOIL-ENGINEERING BEDROCK CONDITIONS BY USING GEOPHYSICAL METHODS (OZKAN CEVDET OZDAG, ATILLA ULUG).....</u></b>	<b>1530</b>
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<b><u>EXAMINING OF DESIGN SPECTRUM WITH PEAK PERIOD, <math>V_s</math> 30 VALUES RELATED BY EUROCODE 8: CASE STUDY OF İZMİR BAY AND SURROUNDING AREA (MUSTAFA AKGUN, AYKUT TUNCEL) .....</u></b>	<b>1543</b>
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<b><u>HEAT TRANSFER AND ENTROPY GENERATION ANALYSIS OF NANOFLUIDS FLOW OVER BACKWARD-FACING STEP (RECEP EKICILER, KAMIL ARSLAN).....</u></b>	<b>1565</b>
<b><u>DIELECTRIC MEASUREMENTS OF CACTUS USING ARCH FREE SPACE METHOD AT X-BAND FREQUENCIES (EDİZ DELİHASANLAR, AHMET HAYRETTİN YUZER) .....</u></b>	<b>1574</b>
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<b><u>KYRGYZ ORTHOGRAPHY AND MORPHOTACTICS WITH IMPLEMENTATION IN NUVE (ZULEYHA YINER, ATAKAN KURT, KALMAMAT KULAMSHAEV, HARUN R. ZAFER) .....</u></b>	<b>1586</b>
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<b><u>PROPER MESH SIZE DETERMINATION OF MELAMINE IMPREGNATED PAPER (MIP) IN PARTICLEBOARD MANUFACTURING AS AN ADHESIVE REPLACEMENT (İBRAHİM HALİL BASBOGA, FATİH MENGELOĞLU, KADIR KARAKUS, İLKAY ATAR) .....</u></b>	<b>1601</b>

<b>ARDUINO BASED WALL PLUG CONTROL BY ANDROID MOBILE DEVICE (KUBILAY TASDELEN, MUHAMMED HASAN TANRİOVEN, CEM AYBEY, SANCAR KAYALAR) .....</b>	<b>1607</b>
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<b>ANALYSIS OF WIND AND WAVE CLIMATE ALONG THE COASTS OF THE BLACK SEA (R. EMRE ÇAKMAK, BİLAL BİNGÖLBALİ, ADEM AKPİNAR).....</b>	<b>1633</b>
<b>INVESTIGATION OF THE AA1050 ALUMINUM ALLOY WITH AISI 304 AUSTENITIC STAINLESS STEEL SHEETS ARE JOINED BY FRICTION STIR SPOT WELDING METHOD (HASAN KAYA, ALİ ÖZ, ABDULLAH DEMİR, MEHMET UCAR, RAMAZAN SAMUR) .....</b>	<b>1641</b>
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<b>INVESTIGATING THE ELECTROMAGNETIC SHIELDING EFFECTIVENESS SIMULATIONS OF METAL COMPOSITE FABRICS (RUSLAN ABDULLA, EDİZ DELİHASANLAR, F. GAMZE KIZILAY ABDULLA, A. HAYRETTİN YUZER) .....</b>	<b>1660</b>
<b>NUMERICAL ESTIMATION OF NO<sub>x</sub> EMISSIONS WITH ANN UTILIZING FUEL PROPERTIES AND COMBUSTION INDICATORS IN A CI ENGINE (CAFER BUDAK, FARUK ERKEN, HUSEYİN AYDIN).....</b>	<b>1665</b>
<b>AN ADAPTIVE TORQUE RIPPLE REDUCTION METHOD IN HYSTERESIS CURRENT CONTROLLED PERMANENT MAGNET SYNCHRONOUS MOTOR (FARUK ERKEN, CAFER BUDAK) .....</b>	<b>1669</b>
<b>THE DEVELOPMENT OF WELL INFORMATION SYSTEM USING GIS: A CASE STUDY OF THE RAMAN OIL FIELD IN TURKEY (BAYRAM ALİ MERT, EMİNE AVCI).....</b>	<b>1676</b>
<b>FINITE ELEMENTS MODELLING OF THE GAS METAL ARC WELDING PROCESS (GOKHAN BİCER, İSMAIL TİRTOM, ESSAM ABO-SERİE) .....</b>	<b>1684</b>
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<b>ON THE INVESTIGATION OF A NOVEL P&amp;O MPPT ALGORITHM BASED ON EXTRATERRESTRIAL IRRADIANCE FOR PV SYSTEMS (SAİD MAHMUT ÇINAR, SEDAT BAKİM) .....</b>	<b>1696</b>

<b><u>A NOVEL METHOD FOR REACTIVE POWER CONTROL RELAYS (HASAN DIRIK, CENK GEZEGIN).....</u></b>	<b><u>1701</u></b>
<b><u>THE MODELING OF GROUNDWATER QUALITY PARAMETERS USED IN AGRICULTURAL IRRIGATION DEPENDING ON MANY YEARS (M. CUNEYT BAGDATLI).....</u></b>	<b><u>1708</u></b>
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<b><u>UNCERTAINTY ANALYSIS OF DIRECT GHG<sub>5</sub> EMISSIONS FROM TURKEY'S PROVINCES FOR 2000-2015 (ALI CAN).....</u></b>	<b><u>1721</u></b>
<b><u>REAL-TIME TARGET TRACKING USING FAST OBJECT DETECTION (MUHAMMED MUSTAFA KELEK, MUHAMMET FATIH ASLAN, AKIF DURDU) .....</u></b>	<b><u>1726</u></b>
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<b><u>FAILURE MODES AND EFFECTS ANALYSIS FOR COGENERATION UNIT IN A WASTEWATER TREATMENT PLANT (NAZLI GULUM MUTLU, SERKAN ALTUNTAS, ILTER TURKDOGAN) .....</u></b>	<b><u>1737</u></b>
<b><u>ODORUS VOLATILE ORGANIC COMPOUNDS DETERMINED INSIDE THE ISTAC LANDFILLING FACILITY AND PLACES AT CLOSE VICINITY BY PASSIVE AIR SAMPLING METHOD (ARSLAN SARAL, S. LEVENT KUZU, SENOL YILDIZ) .....</u></b>	<b><u>1744</u></b>
<b><u>INDOOR PARTICLE SIZE DISTRIBUTION AND IONIC CONTENT OF PARTICLES IN THE LABORATORY OF ISTAC COMPOSTING FACILITY (ARSLAN SARAL, S. LEVENT KUZU, SENOL YILDIZ).....</u></b>	<b><u>1752</u></b>
<b><u>TEMPORAL VARIATION OF ORGANIC AND INORGANIC CARBON TRANSPORT FROM THE SOUTHEASTERN BLACK SEA (TRABZON PROVINCE) RIVERS (SINAN NACAR, ADEM BAYRAM, UGUR SATILMIS).....</u></b>	<b><u>1759</u></b>
<b><u>NEW TECHNOLOGY GRAVITY SEPERATORS IN MINERAL PROCESSING (OMER CANIEREN, CENGIZ KARAGUZEL, AHMET AYDIN) .....</u></b>	<b><u>1764</u></b>

## Chapter 8

<b><u>ENVIRONMENT AND COST COMPARISON OF WARM MIX ASPHALT TECHNOLOGY APPLICATION IN TURKEY (HALIT OZEN , KEMAL KARAKUZU , İBRAHİM SEL)</u></b> .....	<b>1771</b>
<b><u>FORMING OF CARBON FIBER REINFORCED COMPOSITE MATERIALS BY USING OF STRETCH APPARATUS (OMER BAYRAKTAR , ABDULMECİT GULDAS , MUSTAFA GOKTAS)</u></b> .....	<b>1778</b>
<b><u>DEPTH ESTIMATION FROM THE MAGNETIC ANOMALIES OF THE NORTHERN END OF THE FETHIYE-BURDUR FAULT ZONE (FBFZ), SW TURKEY (M. NURI DOLMAZ)</u></b> .....	<b>1785</b>
<b><u>REPEATED LOW-VELOCITY IMPACT BEHAVIOR OF PARTICLEREINFORCED METAL MATRIX COMPOSITES (RECEP EKICI)</u></b> .....	<b>1789</b>
<b><u>ECONOMICAL AND ENVIRONMENTAL INVESTIGATION OF THERMALLY INSULATED AND NON-INSULATED BUILDING IN OSMANIYE. TURKEY (COSKUN OZALP, BULENT YANIKTEPE , CANAN ALADAG, MUSTAFA SOYLER)</u></b> .....	<b>1795</b>
<b><u>WIRELESS SENSOR NETWORK DESIGN FOR SEEDLING PRODUCTION (MEHMET ERKAN YUKSEL , RUYA SAMLI)</u></b> .....	<b>1803</b>
<b><u>LANDSLIDE MONITORING WITH GNSS-PPP ON STEEPSLOPE AND FORESTRY AREA: TASKENT LANDSLIDE (İSMAIL SANLIOĞLU , MUSTAFA ZEYBEK, CEMAL OZER YIGIT)</u></b> .....	<b>1808</b>
<b><u>ESTIMATION OF UNIAXIAL COMPRESSIVE STRENGTH FROM POINT LOAD STRENGTH, POROSITY DRY DENSITY AND PWAVE VELOCITY (A. BOZDAG , İ. İNCE, M. FENER)</u></b> .....	<b>1815</b>
<b><u>THE EFFECT OF RECIPROCATING EXTRUSION PASS NUMBER OF ALUMINUM 6061 BASED COMPOSITES MICROSTRUCTURE (FATMA NAZLI SARI, VEYSEL ERTURUN ,MEHMET BAKI KARAMIS)</u></b> .....	<b>1820</b>
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