

**VI. ULUSLARARASI
BİLİMSEL VE MESLEKİ
ÇALIŞMALAR KONGRESİ – MÜHENDİSLİK
(BILMES EN 2021)
TAM METİN BİLDİRİ KİTABI**



**VI. INTERNATIONAL
SCIENTIFIC AND VOCATIONAL
STUDIES CONGRESS – ENGINEERING
(BILMES EN 2021)
FULL TEXT PROCEEDINGS BOOK**

ARALIK / DECEMBER 2021

Kitabın Adı: VI. Uluslararası Bilimsel ve Mesleki Çalışmalar
Kongresi - Mühendislik Tam Metin Bildiri Kitabı

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KONGRE PROGRAMI / CONFERENCE SCHEDULE

ORAL PRESENTATION

24 December 2021 - Friday

Session 1

Hall Name: BILMES EN 2021

Meeting Hall Chairman : Lect. Tolga Yücehan

Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|---|---|-----------------------------|-----------------------------|
| 11:00 - 11:15 | INTEGRATED REMOTE SENSING AND GIS APPROACH FOR SPATIAL MODELING OF WATER QUALITY IN NAKIVUBO CHANNEL | Abdirahman Saleban Yusuf, Farooq Abubakar Atiku, Abdulfatah Abdu Yusuf, Adiya ZISG, Onura Martins, Abdulqayoom Tunji Lawal | Abdirahman Saleban Yusuf | Farooq Abubakar Atiku |
| 11:15 - 11:30 | A MULTI-REGRESSION MODEL BASED ON MONTHLY RAINFALL PROGNOSTICATION: CASE STUDY OF KASESE DISTRICT, IN EAST AFRICA | Ali Abdi Adam, Abdishukri Said Shire, Abdirizak Tahir Ayanle, Mohamed Salaheldin, Mohammed Musa Aliyu, Farooq Abubakar Atiku, Martins Onyekwelu Onuorah, Tunji Lawal Abdulquyyoom | Ali Abdi Adam | Farooq Abubakar Atiku |
| 11:30 - 11:45 | INVESTIGATION AND ANALYSIS OF HEAVY METALS AND METALLOIDS IN CHARCOAL, ASH AND INSITU SOIL DURING THE SMOLDERING PROCESS OF AN EARTH KILN IN LUWERO, UGANDA | M. K. Ndaula, F. A. Atiku, A. A. Yusuf | M. K. Ndaula | Farooq Abubakar Atiku |
| 11:45 - 12:00 | DETERMINATION OF THE EFFECT OF OZONE TREATMENT ON PANELIST'S SENSORY EVALUATION AND PREFERENCE OF TREATED BROILER'S MEAT | Manal Hadi Ghaffoori Kanaan, Sura Saad Abdullah | Manal Hadi Ghaffoori Kanaan | Manal Hadi Ghaffoori Kanaan |
| 12:00 - 12:15 | EXPLORING AND OPTIMIZATION CYBERSPACE THREAT FOR RESEARCH DATA CENTRES IN HIGHER INSITUATIONS | Yakubu Ajiji Makeri | Yakubu Ajiji Makeri | Yakubu Ajiji Makeri |

Break

25 December 2021 - Saturday

Session 2

Hall Name: BILMES EN 2021

Meeting Hall Chairman : Lect. Tolga Yücehan

Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|---|---|----------------------|---------------|
| 09:00 - 09:15 | EFFECT OF WELDING CURRENT ON SIMILAR AND DISSIMILAR METAL WELDING IN STAINLESS STEEL SPOT RESISTANCE WELDING | Bedirhan Güraydın, Funda Tutumlu, Hamdi Ekici, Onur Ay | Funda Tutumlu | Funda Tutumlu |
| 09:15 - 09:30 | INVESTIGATION OF SURFACE OXIDE FORMATION IN COPPER WIRE ROD PRODUCED BY CONTINUOUS CASTING AND HOT ROLLING | Orhan Akyüz | Orhan Akyüz | Orhan Akyüz |
| 09:30 - 09:45 | EXAMINING THE EFFECTS OF FIBER ADDITIVES ON PERFORMANCE CHARACTERISTIC OF BITUMEN HOT MIXTURE | Gizem Fırat, Ahmet Emre Şahin , Ali Osman Fırat | Gizem Fırat | Gizem Fırat |
| 09:45 - 10:00 | A BRIEF STUDY FOCUSING NITROGEN SURFACE AREA OPTIMIZATION OF SILICA FOR ENHANCING PHYSICAL PROPERTIES OF RUBBER COMPOUNDS | Ceren Özbay, Evran Karaman, Murat Karaaslan, Levent Kaya , Bilal Gürlük, İshak Ok, Seda Yurteri | Ceren Özbay | Ceren Özbay |
| 10:00 - 10:15 | ENAMEL COATED STRANDED CONDUCTOR PRODUCTION FOR HIGH ALTERNATING CURRENT APPLICATIONS | Orhan Akyüz, Güven Yücel, Alper Özdemir, Ufuk Gülten | Orhan Akyüz | Orhan Akyüz |



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| 10:15 - 10:30 | INVESTIGATION OF THE EFFECT OF VISCOELASTIC PROPERTIES ON THE SERVICE LIFE OF CARBON FIBER REINFORCED COMPOSITE BOW MATERIALS USED IN TWISTING MACHINES | Orhan Akyüz, Özgür Tokdemir | Orhan Akyüz | Orhan Akyüz |
|---------------|---|-----------------------------|-------------|-------------|

Break

Session 3

Hall Name: BILMES EN 2021

Meeting Hall Chairman : Lect. Tolga Yücehan
Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|---|---|----------------------|----------------------|
| 11:00 - 11:15 | THE COMPARISON OF SIMULATIONS AND EXPERIMENTAL RESULTS OF A PID CONTROLLED FIN ACTUATION SYSTEM | İbrahim Özçiçek, Arif Ankaralı, Ali İzzet Alkılıç | İbrahim Özçiçek | İbrahim Özçiçek |
| 11:15 - 11:30 | ELASTOMER USE IN WAGON BUFFERS AND DRAW GEAR | Emre Görgün | Emre Görgün | Emre Görgün |
| 11:30 - 11:45 | EFFECTS OF RUNNER INLET SIZE ON PART QUALITY IN PRODUCTION OF PMMA REFLECTOR BY INJECTION MOLDING | Mehmet Can Aşcı, Harun Koçak, Çetin Karataş | Mehmet Can Aşcı | Mehmet Can Aşcı |
| 11:45 - 12:00 | DESIGN AND ANALYSIS OF A MINI TURBO JET ENGINE; A CASE STUDY | Merdiv Danışmaz, Giresse Ngounou Defo | Merdiv Danışmaz | Giresse Ngounou Defo |
| 12:00 - 12:15 | 70 KG END CARRYING CAPACITY CARTESIAN ROBOT DESIGN | Ecenur Görür, Murat Akdağ | Ecenur Görür | Ecenur Görür |
| 12:15 - 12:30 | INVESTIGATION OF THE EFFECT OF HEATING WATER WITH MICROSCALE COPPER PARTICLES ON THE THERMAL PERFORMANCE OF A SHELL AND TUBE HEAT EXCHANGER: A PARAMETRIC STUDY | Merdiv Danışmaz, Melahat Aka, Mert Süer | Merdiv Danışmaz | Melahat Aka |

Break

Session 4

Hall Name: BILMES EN 2021

Meeting Hall Chairman : Lect. Tolga Yücehan
Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|---|--|----------------------|----------------------|
| 13:00 - 13:15 | HOLOGRAPHIC ANTENNA DESIGN FOR MILIMETER WAVES | Özge Yanaz Çınar, Tamer Aslan | Tamer Aslan | Tamer Aslan |
| 13:15 - 13:30 | AUTOMATED LOW VOLTAGE GRID TECHNICAL ANALYSIS PLATFORM | Gökhan Batar, Ekin Başaran, Canan Şişman Korkmaz, Rifat Anıl Aydın, Alper Terciyanlı | Ekin Başaran | Ekin Başaran |
| 13:30 - 13:45 | ENERGY MANAGEMENT SYSTEMS FOR DATA CENTERS | Canan Şişman Korkmaz, İlayda Aygün | Canan Şişman Korkmaz | Canan Şişman Korkmaz |
| 13:45 - 14:00 | INVESTIGATION OF BUILDINGS WITH RAPID STREET SURVEY IN ANKARA CANKAYA OGUZLAR REGION RAPID STREET SURVEY | Şule Bakırcı Er, Caner Yeniçelik | Şule Bakırcı Er | Şule Bakırcı Er |
| 14:00 - 14:15 | RAPID STREET SURVEY ASSESSMENT OF BUILDINGS IN ANKARA CITY CANKAYA REGION HARBIYE DISTRICT | Şule Bakırcı Er, Muzaffer Emre Şahinli | Şule Bakırcı Er | Şule Bakırcı Er |
| 14:15 - 14:30 | COMPARISON OF ARTIFICIAL INTELLIGENCE BASED MODELS DEVELOPED FOR PREDICTION OF LIQUEFACTION INDUCED LATERAL SPREADS | Okan Çetinkaya, Pelin Özener | Okan Çetinkaya | Okan Çetinkaya |

Break



Session 5

Hall Name: BILMES EN 2021 **Meeting Hall Chairman :** Lect. Tolga Yücehan
Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|--|---|----------------------|--------------------|
| 15:00 - 15:15 | REALIZATION OF A HYBRID WHEELCHAIR KIT | Tayfun Unuk, Erkan Yüce | Erkan Yüce | Tayfun Unuk |
| 15:15 - 15:30 | AN INVESTIGATION OF MACHINE LEARNING ALGORITHMS FOR MICROWAVE BREAST CANCER DETECTION AND LOCALIZATION | Elif Tölük, Birol Aslanyürek | Elif Tölük | Elif Tölük |
| 15:30 - 15:45 | THE RELATION BETWEEN INRUSH CURRENT AND CAPACITANCE VALUE IN AUTOMOTIVE ELECTRONICS | İlayda Taylan, Ahmet Gökhan Gürbüz, Ömer Acar | İlayda Taylan | İlayda Taylan |
| 15:45 - 16:00 | FPGA-BASED RANDOM RADIOACTIVE SOURCE SIGNAL GENERATOR | Aydın Tarık Zengin, Kevser Nur Çoğalmış | Aydın Tarık Zengin | Aydın Tarık Zengin |
| 16:00 - 16:15 | DEEP LEARNING AND CONVENTIONAL RECEIVER DESIGN FOR NOMA OFDM SYSTEMS | Rasheed Alqawi, Didem Türeli | Rasheed Alqawi | Rasheed Alqawi |
| 16:15 - 16:30 | INVESTIGATION OF THE METHODS USED IN CONVERTING MOTOR SIGNALS TO IMAGE FORMAT TO BE USED FOR FAULT DETECTION IN PMSM | Mustafa Eker, Binnaz Gündoğan, Özkan İnik | Mustafa Eker | Binnaz Gündoğan |

Break

Session 6

Hall Name: BILMES EN 2021 **Meeting Hall Chairman :** Lect. Tolga Yücehan
Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|--|--|----------------------|---------------|
| 17:00 - 17:15 | EFFECT OF GRAPHENE ADDITION AND HEAT TREATMENT ON MICROSTRUCTURE AND TRIBOLOGICAL PROPERTIES OF NI-P ELECTROLESS COATING | Fahrettin Öztürk, Ramazan Karşlıoğlu, Hatice Gündüz | Hatice Gündüz | Hatice Gündüz |
| 17:15 - 17:30 | APPLICATION OF LIQUID PENETRANT METHOD IN CASTING MATERIALS | Emre Görgün | Emre Görgün | Emre Görgün |
| 17:30 - 17:45 | THERMODE WELDING MACHINE MANUFACTURING WITH INDUSTRY 4.0 TECHNOLOGIES IN THE AUTOMOTIVE SECTOR | Uğur Yücel, Umut Taşkın, Samet Tükel | Uğur Yücel | Umut Taşkın |
| 17:45 - 18:00 | INVESTIGATION OF LOW-VELOCITY IMPACT BEHAVIORS OF ALUMINUM FOAM SANDWICH STRUCTURES REINFORCED WITH ALUMINUM PLATES | Noor Jasim, Recep Güneş | Noor Jasim | Noor Jasim |
| 18:00 - 18:15 | SEAFARERS SELECTION CRITERIA OF SHIPPING COMPANIES A REVIEW OF LITERATURE | Tolga Arslan, Mehmet Fatih Dinçer | Tolga Arslan | Tolga Arslan |
| 18:15 - 18:30 | THE EFFECTS OF BARREL MATERIAL ON MUZZLE VELOCITY AT DIFFERENT CARTRIDGE PRESSURES IN SPORTING RIFLES | Abdullah Uğur, Rıfat Yakut, Hayrettin Düzcükoğlu, Ömer Sinan Şahin | Rıfat Yakut | Rıfat Yakut |

26 December 2021 - Sunday

Session 7

Hall Name: BILMES EN 2021 **Meeting Hall Chairman :** Lect. Tolga Yücehan
Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|---|-------------|----------------------|-------------|
| 09:00 - 09:15 | A DIGITAL ANALYTICS APPROACH BY APPLYING MACHINE LEARNING FOR THE ANALYSIS OF THEATRE AND ART MARKETING WITH MANAGERIAL IMPLICATIONS FOR CONTEMPORARY FINE ARTS EDUCATION | Özerk Yavuz | Özerk Yavuz | Özerk Yavuz |



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| 09:15 - 09:30 | REVIEW ON MOTORCYCLE RIDERS BEHAVIOUR AND ROAD SAFETY FOR INTELLIGENT TRAFFIC MANAGEMENT | Raziye Betül Arslan, Özgür Karaduman, Engin Avcı | Raziye Betül Arslan | Raziye Betül Arslan |
| 09:30 - 09:45 | FRAMEWORK OF FACTORS AFFECTING ON USER EXPERIENCE WITH DISTANCE LEARNING | Abdullah Raed Al-Shaikhli ,Aslan Kanamgotov | Abdullah Raed Al-Shaikhli | Abdullah Raed Al-Shaikhli |
| 09:45 - 10:00 | EVALUATING MACHINE LEARNING METHODS FOR PREDICTION OF BUS TRAVEL TIME BETWEEN STOPS IN PUBLIC TRANSPORTATION | Faruk Serin, Yiğit Alişan | Yiğit Alişan | Yiğit Alişan |
| 10:00 - 10:15 | A MODEL FOR MEASURING THE EXTENT TO WHETHER 2D AND 3D TEXTURES CONVEY EMOTIONS | Dursun Akaslan | Dursun Akaslan | Dursun Akaslan |
| 10:15 - 10:30 | DETERMINATION THE PRIORITY OF MANAGERIAL DECISIONS USING FUZZY LOGIC | Ahmad Ali, Mohammed Wadi | Ahmad Ali | Ahmad Ali |

Break

Session 8

Hall Name: BILMES EN 2021

Meeting Hall Chairman : Lect. Tolga Yücehan

Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|--|---|------------------------------|------------------------------|
| 11:00 - 11:15 | DEHAZING BASED LOW LIGHT IMAGE ENHANCEMENT ON ANDROID OPERATING SYSTEM | Yücel Çımtay, Gökçe Nur Yılmaz | Gökçe Nur Yılmaz | Yücel Çımtay |
| 11:15 - 11:30 | 3D VIDEO QUALITY ASSESSMENT BASED ON PSNR IMPROVE | Gökçe Nur Yılmaz, Yücel Çımtay | Gökçe Nur Yılmaz | Gökçe Nur Yılmaz |
| 11:30 - 11:45 | EXAMINING THE MACHINE AND DEEP LEARNING METHODS IN THE DIAGNOSIS OF BREAST CANCER | Zainab Subhi Mahmood Hawrami, H. Hasan Örkücü | Zainab Subhi Mahmood Hawrami | Zainab Subhi Mahmood Hawrami |
| 11:45 - 12:00 | COMPARISON OF GENETIC ALGORITHM, RED FOX ALGORITHM, AND ARTIFICIAL NEURAL NETWORKS IN ETHICS COMMITTEE SELECTION | Sakine Akyol, Bayram Köse, Hanefi Özbek | Sakine Akyol | Sakine Akyol |
| 12:00 - 12:15 | A MULTI-CRITERIA DECISION-MAKING APPROACH FOR FACILITY LAYOUT DESIGN | Mehmet Şahin | Mehmet Şahin | Mehmet Şahin |
| 12:15 - 12:30 | THE INFLUENCE OF URBAN MORPHOLOGICAL CHARACTERISTICS ON REAL ESTATE VALUE: A MODEL BASED ON GIS | Rıza Ender Umur, Ebru Çubukçu | Rıza Ender Umur | Rıza Ender Umur |

Break

Session 9

Hall Name: BILMES EN 2021

Meeting Hall Chairman : Lect. Tolga Yücehan

Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|--|--|----------------------|----------------------|
| 13:00 - 13:15 | AGRICULTURAL INNOVATION POTENTIAL ADOPTING POTENTIAL CASE OF BAŞYAYLA DISTRICT OF KARAMAN PROVINCE | Aysun Yener Ögür, Münevver Sena Gürbüz | Aysun Yener Ögür | Münevver Sena Gürbüz |
| 13:15 - 13:30 | FACTORS AFFECTING THE USE OF SOCIAL MEDIA FOR AGRICULTURAL PURPOSES; YARMA DISTRICT OF KONYA PROVINCE | Aysun Yener Ögür, Seda Genç, Berna Karakaya, Nur Hanım Ölmez | Aysun Yener Ögür | Aysun Yener Ögür |
| 13:30 - 13:45 | EFFECTS OF SILICON PRE-TREATMENTS TO EMERGENCE OF PURPLE AND YELLOW CORNS (ZEA MAYS INDENTATA L.) | Elif Özdemir | Elif Özdemir | Elif Özdemir |
| 13:45 - 14:00 | EFFECTS OF SILICON PRIMING TO SOME GRAIN PROPERTIES OF PURPLE AND WHITE CORNS EXPOSED TO DEFICIT IRRIGATION UNDER FIELD CONDITIONS | Elif Özdemir | Elif Özdemir | Elif Özdemir |

Break



Session 10

Hall Name: BILMES EN 2021

Meeting Hall Chairman : Lect. Tolga Yücehan
Meeting Hall Vice-Chairman: Lect. Celal Altıntaş

| Time | Title of Study | Authors | Corresponding Author | Presenter |
|---------------|--|--|-----------------------|-----------------------|
| 15:00 - 15:15 | INVESTIGATION OF THE EFFECTS OF WATER AND SOIL POLLUTION IN FELLUCE ON IRAQ ANBAR REGION | Osama Hameed Fahad, Hatim Elhatip | Osama Hameed Fahad | Osama Hameed Fahad |
| 15:15 - 15:30 | GEOCHEMICAL-MINERALOGICAL INVESTIGATION AND RESEARCH ON THEIR USABILITY AS INDUSTRIAL RAW MATERIALS OF SILICA SAND DEPOSITS IN THE WEST OF IRAQ | Lina Raid Fadhil Al-Shaikhly, Zeynel Başibüyük, Hasan Kattoof Jasim, Gökhan Ekinçioğlu | Lina Alshaikhly | Lina Alshaikhly |
| 15:30 - 15:45 | GEOLOGY AND GEOCHEMISTRY OF THE PB-ZN MINERALIZATION OBSERVED IN THE CARBONATES IN THE NORTH OF DADAĞLI (KAHRAMANMARAŞ) | Yusuf Barbaros Akben, Cihan Yalçın, Yusuf Uras | Yusuf Barbaros Akben | Yusuf Barbaros Akben |
| 15:45 - 16:00 | BASHKIRIAN/MOSCOVIAN BOUNDARY BASED ON FUSULINID FORAMINIFERA IN HADIM NAPPE SECTIONS FROM THE TAURIDE BELT, TURKEY: A REVIEW OF BIOSTRATIGRAPHIC DATA | Melikan Akbaş | Melikan Akbaş | Melikan Akbaş |
| 16:00 - 16:15 | INVESTIGATION OF BENDING BEHAVIOR OF CANTILEVER SQUARE BEAMS WITH CUF | Munise Didem Demirbaş, Erasmo Carrera | Munise Didem Demirbaş | Munise Didem Demirbaş |
| 16:15 - 16:30 | ENERGY POLICIES AND GLOBAL DEVELOPMENTS | Cem Emeksiz | Cem Emeksiz | Cem Emeksiz |

