


**JULY 12 - 15, 2016, BURSA, TÜRKİYE**

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| 1               | SURFACE ROUGHNESS IN MILLING OF AISI 430 STAINLESS STEEL BY MQL METHOD USING MWCNT REINFORCED VEGETABLE CUTTING FLUID                                     | Alper UYSAL   | Machining and Non-Traditional Machining Processes |
| 2               | ANALYTICAL AND NUMERICAL INVESTIGATION OF SPRINGBACK ANGLE ON PUSH ROLLING TUBE BENDING PROCESS   | Engin Metin KAPLAN,<br>Kemal YAMAN  | Metal Forming                                     |
| 3               | AN EXPERIMENTAL STUDY ON THE DEFORMATION BEHAVIOR OF THIN-WALLED WORKPIECES   | Johannes LOEHE,<br>Sepp WIMMER,<br>Michael HAIRER,<br>Micheal F. ZAEH         | <b>Machining Day Session I<br/>Paper 1</b>        |
| 6               | METHOD FOR RATING AND CONVERTING TEXT BOOK SPUR GEAR DESIGN RESULTS TO ISO GEAR STANDARD  | Çağrı UZAY,<br>Necdet GEREN   | Methodology for Machine Design                    |
| 10              | APPLICATION OF FEM METHOD ON DESIGN AND MANUFACTURING OF MACHINES FOR SELF CLINCHING OF NUTS DURING STAMPING FOR AUTOMOTIVE SIDE PANEL INTERIOR PARTS     | Bülent EKİCİ,<br>Uygur KARATAŞ,<br>Güçlü ARIKAN                               | <b>Automotive Engineering<br/>I</b>               |
| 13              | PİSTONLU KOMPRESÖRLEDE HONLAMA YÖNTEMİ İLE SİLİNDİR YÜZEY PÜRÜZLÜLÜKLERİNİN DENEYSEL İNCELENMESİ  | Senai YALÇINKAYA  | <b>Talaşlı İmalat I</b>                           |
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| 17              | A NEW DESIGN FOR TILTABLE AND TELESCOPIC STEERING COLUMN WITH HIGH PRESSURE DIE CASTING TECHNOLOGY AND SPECIAL ALLOY MAGSIMAL 59 FOR AGRICULTURE MACHINES | Bülent EKİCİ,<br>Halil BİLGİN   | <b>Automotive Engineering<br/>II</b>              |
| 18              | FATIGUE PROPERTIES OF ABS THERMOPLASTICS USED IN EXTERIOR LIGHTING  | Samet CALIŞKAN, Huseyin LEKESİZ,<br>Ahmet Abdullah KARACA,<br>Ali Rıza YILDIZ | <b>Automotive Engineering<br/>I</b>               |
| 19              | AN ANALYSIS OF LOAD INCOMPATIBILITY IN CENTRAL IN-LINE COLLISIONS OF VEHICLES USING LUMPED-MASS MODELLING   | Selçuk HİMMETOĞLU   | <b>Automotive Engineering<br/>II</b>              |

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| 25              | KOMPAKT LAMİNAT KOMPOZİTİN DELİNMESİNDE YÜZEY PÜRÜZLÜLÜĞÜNÜN DEĞERLENDİRİLMESİ   | Tuncay BİLGE,<br>Ali Riza MOTORCU,<br>Aleksandar IVANOV  | Talaşlı İmalat I                                 |
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| 54              | STRUCTURAL OPTIMIZATION USING META-HEURISTIC ALGORITHMS IN AUTOMOTIVE INDUSTRY   | Ali Rıza YILDIZ,<br>Hüseyin LEKESİZ,<br>Betül Sultan YILDIZ                      | Automotive Engineering II  |
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| 68              | INFLUENCE OF MACHINING STRATEGIES ON SURFACE ROUGHNESS DURING WIRE ELECTRICAL DISCHARGE MACHINING OF TUNGSTEN CARBIDE   | S.NADIMI BAVIL OLIAEI,<br>Yiğit KARPAT   | Machining and Non-Traditional Machining Processes                              |
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| 71              | MOBİL İOT 4.0 PLATFORMU İLE FREZELEMEDE KABLOSUZ KESİCİ TAKIM DURUM İZLEME  | Oğuz ÇOLAK,<br>Okan ORAL   | Talaşlı İmalat II  |
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| 90              | DEVELOPMENT OF SOUND BASED TOOL WEAR MONITORING SYSTEM FOR THE MILLING OF INCONEL 718                      | Chen-Yu LIANG,<br>Ming-Chyuan LU,<br>Shean-Juinn CHIOU   | <b>SPECIAL SESSION</b><br>Industry 4.0 for Machine Tools in Taiwan I             |
| 91              | A COMPARATIVE STUDY OF ENERGY CONSUMPTION OF SELECTIVE LASER SINTERING AND TURN-MILL MACHINING             | Müge KAHYA,<br>Gökberk SERİN,<br>H. Özgür ÜNVER,<br>Nuri DURLU,<br>Osman EROĞUL,<br>Osman DEMİR,<br>Erbil OĞUZ | <b>SPECIAL SESSION</b><br>Additive Manufacturing (3-D Printing) Technologies I I |
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| 100             | ROSE STEM BRANCH POINT DETECTION AND CUTTING POINT LOCATION FOR ROSE HARVESTING ROBOT   | Cahit Gürel<br>Abdulkadir Erden<br>M. Hassan G. Zadeh   | Intelligent Systems                                 |
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| 102             | SHEET LAMINATED DIES: AN ALTERNATIVE TO FAST PROTOTYPING IN FORMING OF SHEET METAL PARTS  | Hakan KALKAN,<br>Yiğit UĞURLU,<br>S. Serpil ERDÖNMEZ, Besim BARANOĞLU, Vildan ÇORUMLU,<br>Bihter BILGIN,<br>Canberk MERMER,<br>İsmail DURGUN  | Automotive Engineering I                            |
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| 104             | APPLICATION OF BOUNDARY ELEMENT – FINITE ELEMENT METHOD COUPLING FOR ELASTOPLASTIC ANALYSIS   | Tuğçe ÇEKİLLİ,<br>Besim Baranoğlu   | Modeling and Simulation and Industrial Applications |
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| CM2             | THE EFFECTS OF LIQUID NITROGEN AND CARBON DIOXIDE CRYOGENIC COOLANTS ON PROGRESSIVE TOOL WEAR   | Armin GHARIBI,<br>Erkin DUMAN,<br>Melih ÖZKÜTÜK,<br>Yusuf KAYNAK                                   | SPECIAL SESSION Cryogenic Machining I                                |
| CM3             | A HYBRID FE AND CFD MODEL TO PREDICT THE TOOL TEMPERATURE DISTRIBUTION IN CO <sub>2</sub> ASSISTED CGI DRILLING   | A. Taner KUZU,<br>Kaveh RAHIMZADEH<br>BERENJİ,<br>Mustafa BAKKAL                                   | SPECIAL SESSION Cryogenic Machining I                                |
| CM4             | DRILLING OF CARBON FIBER REINFORCED PLASTICS UNDER THE DRY AND CRYOGENIC MACHINING CONDITIONS   | Uğur KÖKLÜ,<br>Sezer MORKAVUK,   | SPECIAL SESSION Cryogenic Machining I                                |
| CM5             | ŞEKİL HAFIZALI NİTi ALAŞIMIN MİKRO FREZELENMESİNDE FARKLI SOĞUTMA VE YAĞLAMA TEKNİKLERİNİN ETKİSİNİN İNCELENMESİ  | İrfan UCUN,<br>Yusuf KAYNAK,<br>Kubilay ASLANTAŞ, Mustafa PERÇİN                                   | SPECIAL SESSION Cryogenic Machining II                               |
| CM6             | A/B <sub>4</sub> C KOMPOZİTLERİN KRİYOJENİK İŞLEM UYGULANMIŞ HSS MATKAPLARLA DELİNMESİNDE DELME PARAMETRELERİNİN DELİKLERİN BOYUTSAL TAMLIĞI VE DAİRESELLİĞİ ÜZERİNE ETKİLERİ | Ali Rıza MOTORCU, Ergün EKİCİ  | SPECIAL SESSION Cryogenic Machining II                               |
| CM7             | EFFECT OF CRYOGENIC TREATMENT APPLIED TO TUNGSTEN CARBIDE DRILLS ON THE THRUST FORCE AND TORQUE IN DRILLING OF Ti-6Al-4V ALLOY  | Turgay KIVAK,<br>Ulvi ŞEKER  | SPECIAL SESSION Cryogenic Machining II                               |
| CM8             | INVESTIGATION OF THE EFFECTS OF CRYOGENIC COOLING ON TURNING OF AA6082-T6   | Birhan IŞIK  | SPECIAL SESSION Cryogenic Machining III                              |
| CM9             | EVALUATION OF THE EFFECTS OF CRYOGENIC TREATMENT APPLIED TO THE TOOL IN THE DRILLING OF MIXED COMPOSITES ON SURFACE ROUGHNESS   | Ergün EKİCİ,<br>Ali Rıza MOTORCU   | SPECIAL SESSION Cryogenic Machining III                              |
| CM10            | MILLING OF CARBON FIBER REINFORCED PLASTICS IN DRY AND CRYOGENIC MACHINING CONDITIONS   | Sezer MORKAVUK,<br>Uğur KÖKLÜ,<br>Mehmet BAĞCI   | SPECIAL SESSION Cryogenic Machining III                              |
| SAM1            | AN AMF BASED MULTI-COLOR/MULTI-MATERIAL ADDITIVE MANUFACTURING SYSTEM   | Tahir FİDAN,<br>S. Engin KILIÇ,<br>Metin AKKÖK   | SPECIAL SESSION Additive Manufacturing (3-D Printing) Technologies I |
| SAM2            | Development and investigation of shaped metal deposition process using TIG arc heat source in additive layered manufacturing  | Oguzhan Yılmaz,<br>Adnan A. Uğla   | SPECIAL SESSION Additive Manufacturing (3-D Printing) Technologies I |
| SAM3            | PROCESS LIMITS OF DIRECT METAL LASER SINTERING (DMLS) IN TERMS OF MINIMUM HOLE AND BOSS DIAMETERS WITH VARYING ASPECT RATIOS  | Ezgi UĞUR SOLAKOĞLU, Rifat YILMAZ,<br>Soner ÖREN,<br>Güray AKBULUT,<br>Özgür POYRAZ,<br>Evren YASA | SPECIAL SESSION Additive Manufacturing (3-D Printing) Technologies I |

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| <b>SAM4</b>     | <b>DEVELOPMENT OF CAR REAR LIGHTING GROUP WITH RAPID PROTOTYPING METHODS 3B YAZICI SİSTEMLERİ İLE OTOMOBİL ARKA AYDINLATMA GRUBUNUN GELİŞTİRİLMESİ</b> | İsmail DURGUN,<br>Davut BAŞARAN,<br>Utku DEMİRKAN   | <b>SPECIAL SESSION<br/>Additive Manufacturing<br/>(3-D Printing)<br/>Technologies II</b> |
| <b>SAM5</b>     | A COMPARATIVE STUDY OF ENERGY CONSUMPTION OF SELECTIVE LASER SINTERING AND TURN-MILL MACHINING   | Müge Kahya,<br>Gökberk Serin,<br>H. Özgür Ünver,<br>Nuri Durlu,<br>Osman Eroğul,<br>Osman Demir,<br>Erbil Oğuz    | <b>SPECIAL SESSION<br/>Additive Manufacturing<br/>(3-D Printing)<br/>Technologies II</b> |
| <b>SAM6</b>     | A REVIEW OF ADDITIVE MANUFACTURING TECHNOLOGIES  | Gökberk SERİN,<br>Müge KAHYA,<br>Hakkı Özgür ÜNVER,<br>Yavuz GÜLEÇ,<br>Nuri DURLU,<br>Osman EROĞUL                | <b>SPECIAL SESSION<br/>Additive Manufacturing<br/>(3-D Printing)<br/>Technologies II</b> |
| <b>SAM7</b>     | ADDITIVE MANUFACTURING OF TITANIUM ALLOYS  | Ahmet Murat ÖGE,<br>Nuri DURLU,<br>Hakkı KIZILOK,<br>Hakkı Özgür ÜNVER,<br>Ayhan KILIÇ,<br>Osman EROĞUL           | <b>SPECIAL SESSION<br/>Additive Manufacturing<br/>(3-D Printing)<br/>Technologies II</b> |
| <b>ST1</b>      | <b>PREDICTION OF THIN WALL DYNAMICS FOR CHATTER STABILITY BY USING LASER DOPPLER VELOCIMETRY</b>   | <b>Chung-Yu TAI,<br/>Yi-Hsuan CHEN,<br/>Chi-Cheng LIN,<br/>Ci-Rong HUANG,<br/>Ta-Jen PENG,<br/>Tzuo-Liang LUO</b> | <b>SPECIAL SESSION<br/>Industry 4.0 for Machine<br/>Tools in Taiwan I</b>                |
| <b>ST2</b>      | A PROCESS STABILITY ENHANCED MACHINE TOOL DESIGN METHOD INTEGRATED DYNAMIC STIFFNESS TOPOLOGY OPTIMIZATION   | Tzuo-Liang LUO,<br>Chia-Pei WANG,<br>Shuo-Peng LIANG  | <b>SPECIAL SESSION<br/>Industry 4.0 for Machine<br/>Tools in Taiwan I</b>                |

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| ST4             | A POSTPROCESSOR FOR HYBRID FIVE-AXIS MACHINE TOOLS BASED ON INVERSE KINEMATIC WITH JACOBIAN MATRIX IMPLEMENTATION | Tzuo-Liang Luo,<br>Chien_Chih Liao,<br>Zi_Gui Chao,<br>Yuan-Lung Lai | SPECIAL SESSION<br>Industry 4.0 for Machine<br>Tools in Taiwan II |
| ST5             | CHALLENGE AND PRACTICES FOR WIRELESS SENSOR NETWORK DEPLOYMENT IN MACHINING ENVIRONMENT                           | Yun-Yen Chen,<br>Hsiao-Hui Lee,<br>Racy Cheng                        | SPECIAL SESSION<br>Industry 4.0 for Machine<br>Tools in Taiwan II |
| ST6             | DEVELOPMENT OF SOUND BASED TOOL WEAR MONITORING SYSTEM FOR THE MILLING OF INCONEL 718                             | Chen-Yu LIANG,<br>Ming-Chyuan LU, Shean-<br>Juinn CHIOU              | SPECIAL SESSION<br>Industry 4.0 for Machine<br>Tools in Taiwan II |
| S_SYMP_1        | MECHATRONIC DESIGN, MANUFACTURING AND CONTROL OF A REACTION WHEEL INVERTED PENDULUM (RWIP) SETUP                  | Yiğit ACARBAY  | STUDENTS SYPOSIUM<br>I  |
| S_SYMP_2        | THE DESIGN OF AN INNOVATIVE LOADING AND UNLOADING MECHANISM FOR PRESS MACHINE AUTOMATION                          | Ayberk GÖKÇE   | STUDENTS SYPOSIUM<br>I  |
| S_SYMP_3        | CHASIS DESIGN AND ANALYSIS FOR A GOLF CAR WITH SIX SEATERS  | Yunus DEMİR  | STUDENTS SYPOSIUM<br>I  |
| S_SYMP_4        | SPIDER ROBOT DESIGN AND PROTOTYPE PRODUCTION FOR LASER MARKING  | Ali KARASLAN   | STUDENTS SYPOSIUM<br>I  |
| S_SYMP_5        | LABORATORY BUILT DC MAGNETRON SPUTTERING MACHINE  | Tunç Safa ALTUNSARAY   | STUDENTS SYPOSIUM<br>I  |
| S_SYMP_6        | MULTI PURPOSE, ENVIRONMENT ORIENTED HYBRID UNDERWATER VEHICLE DESIGN & HYDRODYNAMIC ANALYSIS                      | Sinan Şahin CANDAN   | STUDENTS SYPOSIUM<br>II   |
| S_SYMP_7        | THE COMPANION   | Emre OSMANOĞLU   | STUDENTS SYPOSIUM<br>II   |
| S_SYMP_8        | CARDBOARD BICYCLE   | Yekta Özden ÇELEBİ   | STUDENTS SYPOSIUM<br>II   |
| S_SYMP_9        | DESIGN, MANUFACTURING AND TESTING AN APPARATUS FOR LASER MICRO LITHOGRAPHY  | Nehir YAPAR  | STUDENTS SYPOSIUM<br>II   |