



ETIKUM 2023
INTERNATIONAL SCIENTIFIC CONFERENCE
Novi Sad, 7- 9th December 2023.

Conference Organizer: University of Novi Sad, Faculty of Technical Sciences, Department of Production Engineering, Chair of Metrology, Quality, Fixtures, Tools, and Ecological-Engineering Aspects

CONFERENCE PROGRAM

THURSDAY, DECEMBER 7TH, 2023

EARLY REGISTRATION

FRIDAY, DECEMBER 8TH, 2023

09:00 - 10:00	Registration of participants (Rectorate building hall)
	Equipment presentation TOPOMATIKA D.O.O. (Rectorate building hall)
OFFICIAL CONFERENCE OPENING (amphitheater – ground floor)	
10:00 - 10:20	Provincial Secretariat for Higher Education and Scientific Research University of Novi Sad – Rector Faculty of Technical Sciences – Dean Department of Production Engineering – Head of Department Chairman of the Program Committee
	Award ceremony „Prof. dr Janko Hodolic“.
10:20 - 10:30	Coffee break (10 min)



SESSION 1a

METROLOGY AND QUALITY CONTROL IN THE PRODUCTION ENGINEERING

Place: Rectorate building - amphitheater (ground floor)

Chairmans: Dejan Movrin, Mario Šokac

10:30 – 13:00	<p>Milosevic, A., Agarski, B., Sokac, M., Simunovic, G., Kocovic, V., Vukelic, D.: IMPLEMENTATION OF LIFE CYCLE ASSESSMENT IN THE DESIGN PROCESS OF FIXTURE FOR REDUCER HOUSING MACHINING</p> <p>Božić, D., Milošević, M., Lukić, D., Santoši, Ž.: PRIMENA VIZUELNOG PRETRAŽIVAČA 3D CAD MODELA KOD REDIZAJNIRANJA PROIZVODA</p> <p>Skakun, P., Rajnović, D., Janjatović, P., Dramićanin, M.: EXPERIMENTAL DETERMINATION OF STRAIN STATE IN METAL FORMING</p> <p>Havrlišan, S., Wang, H., Klarić, Š.: ISTRAŽIVANJE UTJECAJA PARAMETARA 3D PRINTANJA NA VLAČNU ČVRSTOĆU</p> <p>Spasojević, S., Dramićanin, M.: UTICAJ TEMPERATURE I DEFORMACIJE NA TVRDOĆU ČELIKA AISI 304L</p> <p>Jovanović Pešić, Ž., Džunić, D., Pešić, M., Milenković, S., Kostić, S., Kočović, V.: UTICAJ BRZINE ALATA NA KARAKTERISTIKE MATERIJALA KOD POVRŠINSKE OBRADJE TRENJEM – PREGLED</p> <p>Jovicic, G., Kanovic, Z., Sokac, M., Santos, Z., Mitrovic, S., Simunovic, G., Vukelic, D.: MODELLING OF SURFACE ROUGHNESS AND TOOL WEAR DURING THE TURNING OF INCONEL 601 ALLOY USING ARTIFICIAL NEURAL NETWORKS</p> <p>Stojišić, N., Jevtić, N., Borović, Z., Pećanac, M., Baloš, S.: UTICAJ BRZINE LASERSKOG ZAVARIVANJA NA OBLIK METALA ŠAVA</p> <p>Kos, J., Drvar, N., Hercigonja, T.: PREDNOSTI ROBOTIZIRANIH OPTIČKIH 3D SKENERA I CT MJERITELJSKIH SUSTAVA ZA MJERENJE I ANALIZU DEFEKATA U PROIZVODNJI</p> <p>Kosec, B., Bizjak, M., Gojić, M., Štrbac, B., Ivanić, I., Nagode, A., Karpe, B.: THERMAL PROPERTIES OF RAPIDLY SOLIDIFIED COPPER BASED Cu-Al-Ni-Mn SHAPE MEMORY ALLOY</p> <p>Maksimović, N., Milutinović, M., Labus Zlatanović, D., Baloš, S.: MIKROTVRDOĆA I MIKROSTRUKTURALNA ANALIZA FERITNOG NERĐAJUĆEG ČELIKA U DEFORMISANOM STANJU</p> <p>Šokac, M., Katić, M., Milošević, A., Ranisavljev, M., Santoši, Ž., Vukelić Đ.: PRIMENA INDUSTRIJSKOG CT-A KAO ALATA ZA DIMENZIONALNU ANALIZU I DETEKCIJU DEFEKATA KOD ODLIVAKA</p>
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SESSION 1b
METROLOGY AND QUALITY CONTROL IN THE PRODUCTION ENGINEERING

Place: Rectorate building – I-9 (1st floor)
Chairmans: Isak Karabegović, Branko Štrbac

10:30 – 13:00

Kostić, S., Kočović, V., Vasiljević, S., Miletić, S., Jovanović Pešić, Ž., Džunić, D.: TENSILE TESTING OF ELECTROCHEMICALLY MACHINED SPECIMENS

Kovač, P., Savković, B., Dudić, B., Ješić, D.: MODELLING OF SURFACE ROUGHNESS PARAMETERS USING THE DESIGN OF EXPERIMENTS PLANS OF THE FIRST ORDER AND ARTIFICIAL INTELLIGENCE METHOD DURING MACHINING

Karabegović, I., Husak, E., Karabegović, E., Mahmić, M.: COMPARATIVE ANALYSIS OF THE IMPLEMENTATION OF ROBOT TECHNOLOGY AS THE BASIC TECHNOLOGY OF INDUSTRY 4.0 IN AMERICA (USA) AND CHINA

Marinković, D., Milošević, A., Knežev, M., Mladenović, C.: PRORAČUN ELEMENATA I CAE ANALIZA MAŠINSKE STEGE

Mešeljević, L., Hadžikadunić, F., Bajtarević-Jeleč, A.: THE IMPACT OF STIFFENER APPLICATION ON MATERIAL STRENGTH AND RESISTANCE OF ALUMINUM COMPOSITE METAL WALL PANELS

Miletić, S., Džunić, D., Mitrović, S., Kočović, V., Radisavljević, S., Vasiljević S., Kostić, S.: TRIBOLOŠKA KARAKTERIZACIJA MOTORNIH ULJA

Nemeš, T., Petković, B. Lj., Samardžić, S., Beljin-Čavić, M.: ODREĐIVANJE TOPLOTNE PROVODLJIVOSTI METALA – REALIZACIJA APARATURE I POSTUPKA MERENJA ZA POTREBE NASTAVE IZ FIZIKE

Janković, P. Baralić, J., Petković, D.: ENHANCING PRODUCTION EFFICIENCY THROUGH MODELING

Kosarac, A., Sekulic, M., Savkovic, B., Moljevic, S., Sikuljak, L., Anic, J., Aleksic, A.: SMALL DATASET CHALLENGES: ASSESSING THE PERFORMANCE OF NEURAL NETWORKS AND RANDOM FORESTS IN Ti6Al4V ALLOY MACHINING OPTIMIZATION

Erić Obućina J., Pravdić P., Obućina V.: NOISE AND VIBRATIONS IN HYDRAULIC CONTROL SYSTEMS OF MOTORS VEHICLES

SESSION 1c
METROLOGY AND QUALITY CONTROL IN THE PRODUCTION ENGINEERING

Place: Rectorate building II-13 (2nd floor)
Chairmans: Sebastian Baloš, Željko Santoši

10:30 – 13:00

Petrović, Z., Tufegdžić, M., Brzaković, Lj., Nikolić, R.: PRIMENA PROGRAMSKOG SISTEMA ZA PRIPREMU SETOVA ALATA ZA OBRADU DELOVA SLOŽENE KONFIGURACIJE

Pravdić, P., Đorđević, V., Erić-Obućina, J.: KONTROLA KVALITETA U MAŠINSTVU NA PRIMERU POGONSKOG ZUPČANIK



10:30 – 13:00	<p>Pravdić, P., Đorđević, V., Erić-Obućina, J.: TEHNOLOŠKI PROCESI U INDUSTRIJI 4.0</p> <p>Ranisavljev, M., Štrbac, B., Santosi, Z., Sokac, M., Matin, I., Hadzistevic, M., Jotic, G.: APPLICATION OF SEGMENTATION ALGORITHMS FOR MONO AND MULTI-MATERIAL COMPONENTS IN COMPUTED TOMOGRAPHY</p> <p>Goluža, B., Zovko, O.: OPTIMIRANJE KONSTRUKCIJE ALATA ZA ISTISKIVANJE, KORIŠTENJEM FEM SIMULACIJE, ALUMINIJSKOG PROFILA KOMPLEKSNOG OBLIKA</p> <p>Ilić, V., Blesić, A., Nedović, Lj., Čomić, L., Ralević, N.M.: PRIMENA DESKRIPTORA OBLIKA U ZADACIMA PREPOZNAVANJA LICA</p> <p>Urekar, M.: NOVA VERZIJA STANDARDA SRPS EN IEC 61557-9 OPREMA ZA LOCIRANJE KVARA IZOLACIJE U IT SISTEMIMA</p> <p>Vasiljević, S., Kostić, S., Kočović, V., Tanasković, A., Miletić, S., Džunić, D.: STATISTICAL PROCESSING OF 3D PRINTER PRINTING TIME DATA AND ANALYSIS OF INFLUENTIAL FACTORS</p> <p>Matin, I., Štrbac, B., Hadžistević, M., Ranisavljev, M.: MOLD DESIGN OF MODULAR INJECTION MOLDS</p>
13:00 – 14:00	Cocktail break (Canteen at Rectorate building)
SESSION 2 METROLOGY AND QUALITY CONTROL IN THE BIOMEDICAL ENGINEERING Place: Rectorate building - amphitheater (ground floor) Chairmans: Tatjana Puškar, Sanja Kojić	
14:00 – 16:30	<p>Adamov, L., Petrović, N., Putnik, I., Đočoš, M., Petrović, B., Vejin, M., Kojić, S.: AUTOMATED DENTAL AGE ASSESSMENT WITH CAMERIERE'S THIRD MOLAR INDEX: A PRECISION APPROACH AND FUTURE DEVELOPMENTS</p> <p>Bobić Z., Terek V., Kovačević L., Csik A., Čapo I., Rodič P., Drljača J., Terek P.: PRELIMINARY INVESTIGATION OF BIOCOMPATIBILITY AND CORROSION RESISTANCE OF SURGICAL STEEL COATED WITH TiAlSiN AND TiAlN/CN_x COATINGS</p> <p>Đurović-Koprivica, D., Jeremić-Knežević, M., Maletin, A., Milekić, B., Puškar, T., Ilić-Mićunović, M.: COMPUTER GUIDED DENTAL IMPLANT PLACEMENT</p> <p>Jeremic Knezevic, M., Knezevic, A., Djurovic Koprivica, D., Milekic, B., Maletin, A., Puskar, T.: MOUTH OPENER FOR MAGNETIC RESONANCE IMAGING OF THE TEMPOROMANDIBULAR JOINT</p> <p>Maletin, A., Đurović Koprivica, D., Jeremić Knežević, M., Milekić, B., Puškar, T., Ristić, I.: EVALUATION OF ADHESIVE BOND STRENGTH OF COMPOSITE RESIN BASED CEMENT MATERIALS-DROPLET DEBONDING TEST</p> <p>Milekić, B., Jeremić Knežević, M., Đurović Koprivica, D., Maletin, A., Gušić, I., Puškar, N.: PROCENA KVALITETA FUNKCIONALNE SPOSOBNOSTI MASTIKATORNOG SISTEMA ELEKTROMIOGRAFIJOM</p>



14:00 – 16:30	<p>Panić, M., Movrin, D., Milutinović, M., Stefanović, Lj.: UTICAJ BRZINE EKSTRUDIRANJA FARMACEUTSKOG FILAMENTA NA TAČNOST MASE TABLETA U TEHNOLOGIJI DEPONOVANJA ISTOPLJENOG FILAMENTA</p> <p>Puškar, M., Puškar, N., Jeremić Knežević, M., Đurović Koprivica, D., Maletin, A., Milekić, B.: NEAR-INFRARED LIGHT TRANSILLUMINATION FOR EARLY PROXIMAL CARIES DETECTION</p> <p>Putnik, I., Petrović, N., Adamov, L., Vejtin, M., Đočoš, M., Movrin, D., Kojić, S.: SLA PRINTED MICROFLUIDIC CHIPS: PRINTING ORIENTATION INFLUENCE ON PRINTING QUALITY</p> <p>Qureshi, S., Kumar, P., Stojanović, G.: ELECTRO-MECHANICAL TESTING OF SILVER CONDUCTIVE TEXTILES FOR STRAIN SENSING APPLICATIONS</p> <p>Vučinić, P., Petrović, Đ., Ivić, S., Puškar, T., Radumilo, D., Puškar, N., Vućinić T.: CONTEMPORARY ADVANCES IN AUTOMATED LANDMARK DETECTION IN CEPHALOMETRICS</p> <p>Žigić, M.: THE APPLICATION OF INERTIAL MEASUREMENT UNITS (IMUs) IN BIOMECHANICS AND ROBOTICS</p> <p>Ilić Mićunović, M., Kuzmanović, M., Budak, I., Agarski, B., Vukelić, Đ.: ISPITIVANJE PRISUSTVA RESPIRATORNIH AEROSOLA PRILIKOM STOMATOLOŠKIH INTERVENCIJA</p>
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SESSION 3a
METROLOGY AND QUALITY IN THE FIELD OF ENVIRONMENTAL PROTECTION AND OCCUPATIONAL SAFETY

Place: Rectorate building I-9 (1st floor)
Chairmans: Miljana Prica, Milana Ilić Mićunović

14:00 – 16:30	<p>Andreeva, I., Gabechaya, V., Morev, D., Samardžić, M., Vasenev, I.: COMPARATIVE ASSESSMENT OF THE ECOLOGICAL STATE OF VINEYARD SOILS USING BIOLOGICAL AND CHEMICAL METHODS OF ANALYSIS</p> <p>Brborić, M., Nakomčić Smaragdakis, B., Turk Sekulić, M.: HUMAN HEALTH RISK ASSESSMENT DUE TO CONTAMINATION OF DANUBE RIVER SEDIMENTS WITH POLYAROMATIC HYDROCARBONS</p> <p>Brborić, M., Nakomčić Smaragdakis, B., Turk Sekulić, M.: OCCURRENCE AND CHARACTERIZATION OF DIOXIN CONTAMINATION IN DANUBE SEDIMENTS</p> <p>Kadušić, E., Birdahić, V., Imamović, N.: APPLICATION OF REVERSE OSMOSIS FOR TREATING WASTEWATER FROM THE COKING INDUSTRY</p> <p>Kadušić, E., Imamović, N.: EVALUATION OF EFFLUENT CHARACTERISTICS IN POULTRY INDUSTRY – A COMPARISON BETWEEN ACTUAL MEASUREMENTS AND GPS-X SIMULATION</p> <p>Kuhnová, L., Szaryszová, P., Bosák, M.: THE BOOM IN NUCLEAR ENERGY AND ITS IMPACT ON THE ENVIRONMENT</p>
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14:00 – 16:30	<p>Morev, D., Vasenev, I., Andreeva, I.: COMPARATIVE ANALYSIS OF THE METROLOGICAL FEATURES OF SOIL CARBON MEASUREMENT IN CONDITIONS OF AGROECOLOGICAL RESEARCH STATION OF TIMIRYAZEVA ACADEMY</p> <p>Stepanov, A.V., Vasenev, I.I.: METROLOGICAL IOT SUPPORT FOR EVIDENCE OF HIGH AGROECOLOGICAL EFFICIENCY OF NEW AGROCHEMICALS USE ON DEGRADED PODZOLIC SOILS</p> <p>Vasenev, I.I., Melese, S.M.: ASSESSMENT OF ENVIRONMENTAL MONITORING METROLOGICAL SUPPORT FOR PODZOLUVISOL PHYSICAL PROPERTIES IN DIFFERENT RELIEF FORMS</p> <p>Yaroslavtsev, A. M., Seregin, I.A., Aleksandrov, N.A., Galić, Z., Vasenev, I.I.: ASSESSMENT OF IOT SHORT WAVE RADIATION SENSOR BASED ON AMSAS7262 AND AS7263</p>
SESSION 3b METROLOGY AND QUALITY IN THE FIELD OF ENVIRONMENTAL PROTECTION AND OCCUPATIONAL SAFETY Place: Rectorate building II-13 (2nd floor) Chairmans: Nusret Imamović, Boris Agarski	
14:00 – 16:30	<p>Adamović, S., Milošević, R., Banjanin, B., Tomić, I., Adamović, D., Mihailović, A., Dramićanin, M.: GASOVITE ZAGAĐUJUĆE MATERIJU U RADNOM OKRUŽENJU TAMPON MAŠINE</p> <p>Đorđević, G., Petković, M., Zarev, I., Jocić, N., Klikovac, A.: RISK MANAGEMENT IN FIRE PROTECTION AS A CONSEQUENCE OF ELECTROSTATIC ELECTRICITY</p> <p>Gvoić, V., Agarski, B., Kerkez, Đ., Vukelić, Đ., Prica, M.: OCENJIVANJE ŽIVOTNOG CIKLUSA I ISPITIVANJE UTICAJA SINTEZE HETEROGENOG FENTON KATALIZATORA NA ŽIVOTNU SREDINU</p> <p>Jovanović, S., Budak, I., Ilić Mićunović, I., Agarski, B.: POTROŠNJA ELEKTRIČNE ENERGIJE I UTICAJ HOTELA NA POTENCIJAL GLOBALNOG ZAGREVANJA</p> <p>Kerac, J., Prica, M.: PRINTING INKS: ENVIRONMENTAL IMPACTS, INNOVATIONS, AND FUTURE DIRECTIONS</p> <p>Kiss, F.: IMPACT OF INVENTORY MODELLING CHOICES ON LCA RESULTS: A CASE STUDY WITH ELECTRIC VEHICLES</p> <p>Prcanović, H., Duraković, M., Beganović, S., Lemeš, S.: STANJE KVALITETA ZRAKA U DUBOKOJ KOTLINI NAKON UKLANJANJA DOMINANTNOG IZVORA ZAGAĐIVANJA SUMPOR DIOKSIDOM</p> <p>Radonović, D., Tenodi, S., Pejin, Đ., Krčmar, D., Slijepčević, N., Bečelić Tomin, M., Tomašević Pilipović, D.: ASSESSING METAL CONCENTRATIONS IN SEDIMENT, PORE WATER AND SURFACE WATER: A COMPARATIVE STUDY</p> <p>Savković, M., Pušica, M., Caiazzo, C., Mijailović, N., Đapan, M.: INVESTIGATING MENTAL WORKLOAD IN ASSEMBLY WORKSTATIONS: AN INTEGRATED ANALYSIS OF EEG AND EYE TRACKING</p>



	Taškov, T., Sokić, K., Bodroža D., Jevtić, S.: ADSORBENTI NA BAZI PRIRODNOG ZEOLITA ZA VEZIVANJE FARMACEUTSKI AKTIVNIH KOMPONENTI U TRETMANU KOMUNALNIH OTPADNIH VODA
16:30 – 17:00	Round table (Rectorate building – amphitheater)
SATURDAY, DECEMBER 9TH, 2023	
09:00 – 11:00	Visit of the laboratories and equipment presentation at the Department of Production Engineering building



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