

SALA 21 – 10:50-13h

UVODNA PREDAVANJA

1. Ljubomir LUKIĆ, Milisav KALAJDŽIĆ: PROFESOR ŠOLAJA – OSNIVAČ SAVETOVANJA PROIZVODNOG MAŠINSTVA
 2. Miodrag MANIĆ, Nikola VITKOVIĆ, Miloš STOJKOVIĆ, Dragan MIŠIĆ, Miroslav TRAJANOVIĆ: DESIGN AND MANUFACTURING OF CUSTOMIZED ANATOMICALLY ADJUSTED PLAT IMPLANTS
 3. Goran D. PUTNIK: WHICH WAYS FOR SERBIAN PRODUCTION ENGINEERING IN THE NEXT DECADES AFTER DESTRUCTION OF SERBIAN INDUSTRY?
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SALA 21 – 17h

SECTION 1: Production technologies and production processes

1. Aleksandar TRAJKOVIĆ, Miloš MADIĆ, Saša RANĐELOVIĆ: APPLICATION OF PLACKETT-BURMAN EXPERIMENTAL DESIGN FOR SCREENING OF ULTRASONIC WELDING PROCESS
2. Anđelija MITROVIC, Nikola BRALOVIC, Jelena BARALIC, Aleksandra STAKIC, Maja RADOVIC: DEFINING PARAMETERS FOR LASER CUTTING PARTS MADE OF AISI 4140
3. Bogdan NEDIĆ, Suzana PETROVIĆ SAVIĆ, Milan IVKOVIĆ, Ivan PEKO, Stefan ĐURIĆ: THE DEVELOPMENT OF THE “IN-LINE” MEASUREMENT OF THE SURFACE TEXTURE
4. Goran MLADENOVIC, Ljubodrag TANOVIC, Radovan PUZOVIC, Mihajlo POPOVIC, Miloš PJEVIC: SOFTWARE UPGRADE FOR AUTOMATIC ROUGH MILLING TECHNOLOGY DESIGN FOR PARTS WITH FREE FORM SURFACES
5. Ivan MATIN, Branko ŠTRBAC, Miodrag HADŽISTEVIĆ, Miloš RANISAVLJEV: THE ADVANCED DESIGN AND MANUFACTURE OF THE PLASTIC PART
6. Jelena BARALIĆ, Bogdan NEDIĆ, Aleksandra STAKIĆ, Anđelija MITROVIĆ: THE CUTTING SPEED INFLUENCE ON WIDTH AND TAPER OF KERF IN ABRASIVE WATER JET CUTTING
7. Jovan ARANĐELOVIĆ, Nikola KORUNOVIĆ, Bojana STAMENKOVIĆ, Milica ARSIĆ, Miroslav TRAJANOVIĆ: METHODOLOGY FOR TOPOLOGICAL OPTIMIZATION AND 3D PRINTING OF A PERSONALISED WRIST ORTHOSIS FOR FRACTURES AND REHABILITATION
8. Lazar KOVAČEVIĆ, Pal TEREK, Stanko SPASOJEVIĆ, Vladimir TEREK, Zoran BOBIĆ, Dragan KUKURUZOVIĆ, Branko ŠKORIĆ: DEVELOPMENT OF NOVEL SPRUE GEOMETRIES THAT MAXIMIZE COMPARATIVE ADVANTAGES OF ADDITIVELY MANUFACTURED SAND MOLDS FOR CASTING ALUMINUM ALLOYS
9. Milica BARAĆ, Nikola VITKOVIĆ, Miodrag MANIĆ: CONCEPTUAL MODEL OF AN INFORMATION SYSTEM FOR MEASURING CUTTING FLUID TEMPERATURE ON CNC MACHINES
10. Cvijetin MLAĐENOVIĆ, Aleksandar KOŠARAC, Milan ZELJKOVIĆ, Miloš KNEŽEV: EXPERIMENTAL IDENTIFICATION OF MILLING PROCESS DAMPING AND HIS IMPLEMENTATION IN STABILITY LOBE DIAGRAM

11. Saša RANĐELOVIĆ, Miloš MADIĆ, Mladomir MILUTINOVIĆ, Nikola KOSTIĆ: THE FORWARD EXTRUSION PROCESS ANALYSIS BASED ON PLASTIC DEFORMATION OF METAL GRAIN STRUCTURE
 12. Saša TEŠIĆ, Milan ZELJKOVIĆ, Đorđe ČIČA, Stevo BOROJEVIĆ, Branislav SREDANOVIĆ: INFLUENCE OF CUTTING PARAMETERS ON THE TOOL LIFE IN END MILLING OF BIOCOMPATIBLE TITANIUM ALLOY Ti6Al4V
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SALA 232 – 17h

SECTION 1: Production technologies and production processes

SECTION 2:Automatization and robotization

SECTION 3:CAx technologies (CAD/CAM/CAPP/CAE systems),CIM and PLM concepts

SECTION 4: Unconventional technologies and processing

1. Sasa ZIVANOVIC, Nikola SLAVKOVIC, Slobodan TABAKOVIC, Nikola VORKAPIC: APPLICATION OF STEP-NC PROTOCOL FOR MILLING ON MACHINE TOOLS THAT USE FANUC-SIEMENS-LINUXCNC CONTROL SYSTEM
2. Milivoje JOVANOVIĆ, Ivica ČAMAGIĆ, Aleksandar SEDMAK, Dragan LAZAREVIĆ, Zivce SARKOCEVIĆ, Jelena STANOJKOVIĆ: INFLUENCE OF TEMPERATURE ON THE BEHAVIOR OF WELDED ALLOYED STEEL UNDER VARIABLE LOAD CONDITIONS
3. Strahinja ĐUROVIĆ, Dragan LAZAREVIĆ, Bogdan NEDIĆ, Bogdan ĆIRKOVIĆ, Vlatko MARUŠIĆ: QUALITY OF MACHINED SURFACE TOPOGRAPHY BASED ON CLAMPING ERROR AND DEVIATION OF MILLING TEETH
4. Zivana JOVANOVIC, Djordje UROSEVIC, Dragan ADAMOVIC, Sasa NJEZIC, Nenad GRUJOVIC, Fatima ZIVIC: STRENGTH ANALYSIS OF THE WINDOW PROFILES MADE OF POLYVINYL CHLORIDE (PVC)
5. Pavle STEPANIĆ, Jelena VIDAKOVIĆ, Andrija DEVIĆ, Nedeljko DUČIĆ: DIRECT INVERSE CONTROL OF TWO-TANK SYSTEM USING NEURAL NETWORKS
6. Zoran MILJKOVIC, Lazar DJOKIC, Milica PETROVIC: OBJECT DETECTION AND TRACKING IN COOPERATIVE MULTI-ROBOT TRANSPORTATION
7. Andrija DEVIC, Nikola LUKIC, Lazar MATIJASEVIC, Petar B. PETROVIC: LINKING CAD MODELER AND XR ENGINE FOR DIGITAL TWIN-BASED COLLABORATIVE ROBOTIC ASSEMBLY
8. Predrag MITIĆ, Bogdan NEDIĆ: RECOGNITION OF GEOMETRIC INFORMATION IN A DXF FILE
9. Bogdan NEDIĆ, Radovan RADOVANOVIĆ, Sreten PERIĆ, Gordana LAKIĆ GLOBOČKI, Stefan ĐURIĆ: SPECIFICITY OF ENGRAVING WITH FIBER LASER MARKING SYSTEMS

10. Dragan RODIC, Marin GOSTIMIROVIC, Milenko SEKULIC, Borislav SAVKOVIC, Nenad KULUNDZIC, Andjelko ALEKSIC: EXPERIMENTAL RESEARCH OF MATERIAL REMOVAL RATE IN POWDER MIXED ELECTRIC DISCHARGE MACHINING
 11. Milos ANIC, Momcilo PRODANOVIC, Strahinja MILENKOVIC, Nenad FILIPOVIC, Nenad GRUJOVIC, Fatima ZIVIC: ELECTROSPINNING AS THE FABRICATION TECHNOLOGY FOR THE ENERGY HARVESTING COMPOSITES
 12. Stefan KARTUNOV: RESEARCH ON LASER TREATMENT IN MECHATRONICS
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PLAVA SALA – 17h

SECTION 5: Artificial intelligence and ICT in production engineering

SECTION 6: Metrology, quality and quality management

SECTION 7: Materials, surface engineering, nanotechnologies

1. Katarina KARIĆ, Marija BLAGOJEVIĆ: STATISTICAL ANALYSIS OF ISO/IEC AND IEEE STANDARDS IN THE FIELD OF ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND DATA MINING
2. Aleksandar ĐORĐEVIĆ, Miladin STEFANOVIĆ, Milan ERIĆ, Milan MIŠIĆ, Tijana CVETIĆ, Yury KLOCHKOV: SOFTVER ZA UPRAVLJANJE NEUSAGLAŠENOSTIMA U REALNOM VREMENU U MALIM I SREDNJIM PREDUZEĆIMA U OKVIRU KONCEPATA INDUSTRIJE 4.0 I KVALITETA 4.0
3. Aleksandar JOVIČIĆ, Nedeljko DUČIĆ, Ivan MILIĆEVIĆ, Radomir RADIŠA, Srećko MANASIJEVIĆ: TESTING OF THE CATERPILLAR TRACK PARTS E-650 FOR THE PRIMARY MINING INDUSTRY
4. Vladan GRKOVIĆ, Milan KOLAREVIĆ, Branko RADIČEVIĆ, Mišo BJELIĆ, Jovana PERIĆ: UNAPREĐENJE KVALITETA KONFIGURACIJE MODULARNIH TREZORSKIH PROSTORIJA PRIMENOM REGRESIJE I ANALIZE
5. Milan KOLAREVIĆ, Vladan GRKOVIĆ, Aleksandra PETROVIĆ, Marina IVANOVIĆ, Mladen RASINAC: EFEKTI UNAPREĐENJA KVALITETA ORMANA ZA ORUŽJE S1 100/10
6. Aleksandar TODIĆ, Milan T. ĐORĐEVIĆ, Vukić LAZIĆ, Dušan ARSIĆ, Branko PEJOVIĆ: ISPITIVANJE PROMENE ČVRSTOĆE U ZAVISNOSTI OD KOLIČINE UGLJENIKA I VANADIJUMA KOD VISOKO LEGIRANIH Cr-Mo-V ČELIKA
7. Marko VILOTIĆ, Mladimir MILUTINOVIĆ, Ljiljana STEFANOVIĆ, Nemanja DAČEVIĆ: EFFECT OF SEVERE PLASTIC DEFORMATION ON MATERIAL STRENGTH AND HARDNESS
8. Petar ĐEKIĆ, Biljana MILUTINOVIĆ, Saša NIKOLIĆ, Mladen TOMIĆ: CHEMICAL ENHANCEMENT OF SURFACE QUALITY USING ACETONE IN ABS 3D PRINTED PRODUCTS
9. Svetomir SIMONOVIĆ: ON POLYMER- LAYERED SILICATE NANOCOMPOSITE

10. Srbslav ALEKSANDROVIĆ, Radovan BAČANIN, Marko DELIĆ, Vukić LAZIĆ, Dušan ARSIĆ: ODREĐIVANJE EKSPONENTA DEFORMACIONOG OJAČAVANJA ZA LIMOVE OD RAZLIČITIH MATERIJALA
 11. Srećko STOPIĆ, Srećko ĆURČIĆ, Milovan MILIVOJEVIĆ, Bernd FRIEDRICH: SYNTHESIS AND APPLICATION OF NANOMATERIALS IN TECHNICS
 12. Stefan KARTUNOV, Diana IZVORSKA: TEACHING ABOUT POLYMER AND HYBRID NANOCOMPOSITIES IN ENGINEERING DEGREE COURSES AT TU-GABROVO, BULGARIA
 13. Zoran BOBIĆ, Bojan PETROVIĆ, Sanja KOJIĆ, Vladimir TEREK, Branko ŠKORIĆ, Lazar KOVAČEVIĆ, Goran STOJANOVIĆ, Pal TEREK: INFLUENCE OF FLUORINE-CONTAINING MOUTHWASHES ON NiTi ALLOY CORROSION
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SALA 318 – 17h

SECTION 8: Revitalisation, re-engineering and maintenance

SECTION 9: Education in production engineering

SECTION 10: Product development

SECTION 11: Systems of management, quality and safety of equipment

SECTION 12: Eco-friendly technologies, eco-systems and engineering of work environment safety

1. Diogo COSTA, Vaibhav SHAH, Leonilde VARELA, Goran PUTNIK: IMPROVEMENTS IN SPC PROCESS WITH BPMN AND SIMULATION IN A HVAC HEAT EXCHANGER FACTORY
2. Milan MARJANOVIĆ, Vojislav VUJIČIĆ, Snežana DRAGIĆEVIĆ, Ivan MILIĆEVIĆ, Draško KOVAČ: MODELING AND SIMULATION OF HYDRAULIC SYSTEMS IN SIMSCAPE FLUIDS
3. Miloš STOJKOVIĆ, Miodrag MANIĆ, Rajko TURUDIJA, Milan TRIFUNOVIC, Ivan JOVANOVIĆ, Marko PAVLOVIC, Vladeta MILENKOVIC: AUGMENTED REALITY IN INDUSTRY 4.0: INSTRUCTION FOR MAINTENANCE OPERATIONS FOR HIGH VOLTAGE EQUIPMENT
4. Biljana ĐORIĆ, Milica STOJKOVIĆ: PROFESIONALNO OPREDELJIVANJE MATURANATA – KAKVA JE POZICIJA MAŠINSTVA?
5. Djordje JOVANOVIĆ, Branislav MILENKOVIĆ, Mladen KRSTIĆ: GREY WOLF OPTIMIZATION ALGORITHM FOR SOLVING REAL-WORLD DESIGN OPTIMIZATION PROBLEMS
6. Sanja PUZOVIĆ, Jasmina VESIĆ VASOVIĆ, Vladan PAUNOVIĆ: DIGITAL TWIN TECHNOLOGIES AS AN ENABLER OF THE NEXT LEVEL OF PLM EVOLUTION
7. Emanuel GARRIDO, Maria VARELA, Goran PUTNIK: ANALYSIS OF THE IMPLEMENTATION OF WIELAND FACTORY SUITE INFORMATION SYSTEM IN THE PRODUCTION AREA OF WIELAND THERMAL SOLUTIONS AND ITS INTEGRATION WITH SAP

8. Jelena JOVANOVIĆ: ANALYSIS OF CONTRIBUTORY FACTORS ON THE TECHNOLOGICAL CYCLE TIME
9. Jovana PERIĆ, Milan KOLAREVIĆ, Mirko ĐAPIĆ, Tanja MIODRAGOVIĆ, Stefan PAJOVIĆ: IMPLEMENTACIJA LEAN KONCEPTA PROIZVODNJE U MALIM I SREDNJIM PREDUZEĆIMA
10. Vladan PAUNOVIĆ, Jasmina VESIĆ VASOVIĆ, Sanja PUZOVIĆ: THE INFLUENCE OF LEAN TOOL APPLICATION ON THE EFFICIENCY OF THE PRODUCTION PROCESS
11. Jelena M. PURENOVIĆ, Michele GUIDA, Milan VESKOVIĆ, Milovan M. PURENOVIĆ: EKOLOŠKI ZNAČAJ UKLANJANJA ŠTETNIH SASTOJAKA IZDUVNIH GASOVA MOTORA SA UNUTRAŠNjim SAGOREVANJEM MIKROLEGIRANIM, MULTIFUNKCIONALNIM I NANOSTRUKTURNIM ČVRSTIM MATERIJALIMA
12. Radomir RADIŠA, Mile ĐURĐEVIĆ, Nedeljko DUČIĆ, Srećko MANASIJEVIĆ, Aleksandar JOVIČIĆ: APPLICATION OF DIGITAL TOOLS IN CIRCULAR PRODUCTION OF CASTINGS
13. Dragan NIKOLIĆ, Srećko ĆURČIĆ, Mirjana ĐOKOVIĆ: ENERGETSKI POTENCIJALI BIOMASE I KORIŠĆENJE VISOKO ENERGETSKIH BILJAKA KAO OBNOVLJIVOG IZVORA ENERGIJE NA TERITORIJI OPŠTINE ČAČAK
14. Srećko ĆURČIĆ, Srećko STOPIĆ, Milovan MILIVOJEVIĆ: MOGUĆNOSTI PROIZVODNJE BIOGASA OD RASPOLOŽIVIH OTPADNIH SIROVINA