



# ОТЕН 2024

11<sup>TH</sup> INTERNATIONAL SCIENTIFIC CONFERENCE  
ON DEFENSIVE TECHNOLOGIES

Serbia, Tara, 9-11 October 2024

## PROGRAMME



**Pavle Savic**  
(1909-1994)

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## CONFERENCE AGENDA

Wednesday, October 9<sup>th</sup>, 2024

17:00 – 20:00	Participants registration and accommodation
17:30 - 20:00	Dinner
20:00 – 21:00	Welcome cocktail (Hall)

Thursday, October 10<sup>th</sup>, 2024

7:30 - 10:00	Breakfast
09:00 - 11:00	Session 1- Young researchers
09:00 - 11:00	Participants registration
11:00 - 11:45	<b>OPENING CEREMONY</b>  <b>A brief introduction:</b> Military Technical Institute Director, col. Ivan Pokrajac, PhD Eng <b>Conference opening:</b> Head of Defence Technologies Department, bg Slavko Rakić PhD Eng <b>Plenary lecture:</b> "Pavle Savic", Vladimir Cizelj PhD Eng, Vlatacom Institute, Belgrade  (Conference Hall)
11:45 - 12:15	<b>Break/Cocktail and conference participants joint photo (Hall)</b>
12:15 - 13:00	<b>INTRODUCTORY LECTURES</b>  <b>INTRODUCTORY LECTURE/ INVITATION LECTURE</b> Energetic materials, prof. Thomas Klapotke, PhD Eng - Department of Chemistry, Ludwig-Maximilians Universitat, Munich, Germany <b>INTRODUCTORY LECTURE/ INVITATION LECTURE</b> Fight Against Drones, Boban Szadic Jotic, PhD Eng, Military Technical Institute, Belgrade Serbia  (Conference Hall)
13.00 - 14.30	<b>LUNCH</b>
14:30 - 17:00	<b>Round table/Panel</b> (Banket Hall)
	<b>SESSIONS</b>
14:30 - 17:00	Session 2 - Young researchers
17:00 - 19:00	Session 3- AFD      Session 4- ISSRS      Session 5- MT      Session 6- AEM
19:00 - 20:00	Session 7-POSTER presentation (Hall, 1 <sup>st</sup> floor)
20:00 - 23:00	<b>CEREMONIAL DINNER</b>

**Friday, October 11<sup>th</sup>, 2024**

<b>07:30 - 09:00</b>	Breakfast			
	<b>SESSIONS</b>			
<b>9:00 - 11:00</b>	Session 8-Young researchers			
<b>11:00 - 11:30</b>	Coffee break			
	<b>SESSIONS</b>			
<b>11:30 - 13:30</b>	Session 9- A	Session 10- TIS	Session 11- MT	Session 12-WSCV
<b>14:00 - 15:30</b>	Lunch			
	<b>SESSIONS</b>			
<b>16:00 - 18:00</b>	Session 13 - QSMME		Session 14 - TIS	
<b>18:30 - 19:00</b>	<b>CONFERENCE CLOSING</b>			
<b>19:00 - 20:00</b>	Cocktail (Conference Hall)			
<b>20:00 - 21:00</b>	Dinner			

**Saturday, October 12<sup>th</sup>, 2024**

<b>07:30 - 09:00</b>	Breakfast
<b>09:00 - 10:00</b>	Departure via Belgrade

**Lecture halls for SESSIONS**

- Lecture hall 1: IDEA HALL
- Lecture hall 2: BANKET HALL
- Lecture hall 3: CONFERENCE HALL
- Lecture hall 4: NEW HALL

No	SECTIONS	NUMBER OF PAPERS
1.	AFD - Aerodynamics and Flight Dynamics	9
2.	A - Aircraft	8
3.	WSCV - Weapon Systems and Combat Vehicles	19
4.	AEM - Ammunition and Energetic Materials	12
5.	ISSRS - Integrated Sensor Systems and Robotic Systems	14
6.	TIS - Telecommunication and Information Systems	17
7.	MT- Materials and Technologies	36
8.	QSMME - Quality, Standardization, Metrology, Maintenance and Exploitation	15

**1. SECTION : AERODYNAMICS AND FLIGHT DYNAMICS - AFD**

Session 3

HALL 1

Thursday, October 10<sup>th</sup>

17:00 - 19:00

Chairman: Goran Ockoljiić

- 1. THE NA-DEL AIRFOIL MODIFICATIONS FOR GENERAL AVIATION AND UAV APPLICATIONS**, Zorana Z. Dančuo, Ivan A. Kostić, Olivera P. Kostić, Aleksandar Č. Bengin, Goran S. Vorotović
- 2. AERODYNAMIC OPTIMIZATION OF WINGLETS FOR AN UNMANNED AERIAL VEHICLE**, Dušan Ivković, Ivan Kostić, Olivera Kostić, Mirko Dinulović, Aleksandar Simonović
- 3. COMPUTATIONAL ANALYSIS OF ROCKET-ASSISTED PROJECTILE TRAJECTORY**, Abdellah Ferfour, Damir D. Jerković, Aleksandar V. Kari, Saša Živković
- 4. COMPUTING AERODYNAMIC DAMPING IN ROLL AND PITCH OF A SUPER-SONIC FINNER MODEL**, Jelena Svorcan, Toni Ivanov, Ognjen Peković, Aleksandar Simonović
- 5. DESIGN AND EXPERIMENTAL EVALUATION OF A MISSILE LATERAL THRUSTER**, Toufik Allouche, Saša Živković, Marko Karić, Abdellah Ferfour, Damir Jerković, Nebojša Hristov
- 6. EXPERIMENTAL RESULTS FROM THE MISSILE MODEL TEST CAMPAIGN IN THE VTI T-38 WIND TUNNEL**, Marija Samardžić, Nataša Vujić, Biljana Ilić, Goran Ockoljiić
- 7. CONTROL DERIVATIVE ESTIMATION OF NONCONVENTIONAL UAV DESIGN**, Miodrag Milenković-Babić, Branislav Ostojić, Biljana Dovatov, Ilija Nenadić

**2. SECTION : AIRCRAFT - A**

Session 9

HALL 1

Friday, October 11<sup>th</sup>

11:30 - 13:30

Chairman: Jelena Svorcan

- 1. AIRCRAFT PROTECTION AGAINST LIGHTNING AND STATIC ELECTRICITY**, Marina Ostojić, Tamara Nikolić, Radoje Zarubica, Nikola Bogavac
- 2. SMALL FIXED-WING UAV PRECISION AERIAL DROP CAPABILITY DEVELOPMENT**, Vuk Antoni, Milenko Trifković, Vojimir Molović
- 3. ANALYSIS OF THE RESCUE SYSTEM IMPLEMENTATION IN THE MEDIUM RANGE UAV**, Vanja Stefanović Gobeljić, Miodrag Milenković Babić, Mihailo Zdravković
- 4. ANALYSIS OF THE MASS AND AERODINAMICAL CHANGES DUE TO IMPLEMEN-**

**TATION OF AN EXTERNAL RESCUE SYSTEM ON A MEDIUM RANGE UAV**, Branislava Ostić, Miodrag Milenković-Babić, Vanja Stefanović-Gobeljić, Branislav Ostojić

**5. FAILURE ANALYSIS OF AIRCRAFT STRUCTURAL ELEMENTS**, Stevan Maksimović, Katarina Maksimović, Ivana Vasović Maksimović, Mirjana Đurić, Mirko Maksimović

POSTER SECTION			
Session 7	HALL 2	Thursday, October 10 <sup>th</sup>	19:00 - 20:00

**1. THE EFFECTIVNES OF THE USE OF DRONES IN MODERN CONFLICT**, Stevan Jovičić, Jasminka Jelisavac, Ljubiša Tomić, Ivo Obradovic

3. SECTION : WEAPON SYSTEMS AND COMBAT VEHICLES - WSCV			
Session 12	HALL 4	Friday, October 11 <sup>th</sup>	11:30 - 13:30
Chairman: Damir Jerković			

**1. OPTIMIZATION OF AUTOMATIC SAFETY ALGORITHMS FOR GUIDED MISSILES TO MEET TESTING RANGE BOUNDARIES**, Ivana Todić, Luka Miličić, Vladimir Kuzmanović, Miloš Marković, Dejan Jevtić

**2. SIMULATION MODEL OF PRIORITIZED THREAT SELECTION IN DEFENSIVE MULTITARGET MILITARY SWARMING**, Radomir Janković

**3. ACTIVE GYRO-DUMPING FOR MISSILE WITH PITCH/YAW DISTURBANCE SENSITIVE HOMING HEAD**, Miloš Pavić, Ivan Marić

**4. ANALYTICAL AND NUMERICAL ANALYSIS OF AXIAL STRESSES IN A HIGH EXPLOSIVE ROCKET ASSISTED PROJECTILE BODY DURING ITS LAUNCH**, Svetlana Stojnović, Abdellah Ferfour, Nikola Radovanović, Miloš Pešić, Srećko Manasijević, Vladimir Milovanović

**5. EFFECT OF EROSIIVE BURNING IN ROCKET MOTOR ON THE BALLISTICS OF ROCKET FLIGHT**, Srđan Stojković, Nikola Gligorijević

**6. PREDICTION OF ARTILLERY CORRECTION ELEMENTS BY SOFTWARE FOR BALLISTICS MODULE OF FIRE CONTROL SYSTEMS**, Dragoslav R. Petrović

**7. CHANGE OF SPEED OF COMFORT PARAMETERS IN THE ARMORED COMBAT VEHICLES OF THE SERBIAN ARMY DUE TO ENVIRONMENTAL CONDITIONS**, Snežana Mališić, Milica Ivanović, Filip Stanić



**POSTER SECTION**

Session 7

HALL 2

Thursday, October 10<sup>th</sup>

19:00 - 20:00

- 1. OPTIMIZATION OF SINGLE STAGE PLANETARY GEARBOX PARAMETERS USING GENETIC ALGORITHM**, Miloš Sedak, Maja Rosić
- 2. TESTING OF TECHNICAL SOLUTION FOR ACHIEVING THE OPTIMAL DURATION OF THE ACTIVATION CADENCE OF THE FRONT AND MAIN WARHEAD IN THE TANDEM CUMULATIVE WARHEADS**, Slobodan Bosiljčić, Miroslav Gluvačević, Rade Stančić, Marinko Ugrčić, Katarina Nestorović
- 3. ANALYSIS OF THE USE OF MODERN FIRE GUIDANCE SYSTEMS AND THEIR IMPLEMENTATION IN INFANTRY UNITS**, Marko Radovanović, Aleksandar Petrovski, Aner Behlić, Rexhep Mustafovski, Kristijan Ilievski, Željko Jokić, Sofija Ackovska
- 4. ASSESSMENT OF EXPOSURE TO PHYSICAL HAZARDS IN THE WORKING ENVIRONMENT DURING TESTING OF PROTOTYPES**, Snežana Jovanović, Dragan Stojadinović, Martin Jovanović, Aleksandar Đurić
- 5. PRESENTATION OF THE USE OF MODERN FIRE CONTROL SYSTEMS AND THEIR IMPLEMENTATION IN INFANTRY UNITS**, Marko Crnogorac, Marko Radovanović
- 6. A NEW APPROACH TO MUZZLE CLIMB REDUCTION IN ASSAULT RIFLES**, Ranko Babić

**4. SECTION : AMMUNITION AND ENERGETIC MATERIALS - AEM**

Session 6

HALL 4

Thursday, October 10<sup>th</sup>

17:00 - 19:00

Chairman: Predrag Elek

- 1. MODELING OF SHAPED CHARGE JET PENETRATION DEPTH: ANALYTICAL AND NUMERICAL APPROACH**, Predrag Elek, Miloš Marković, Dejan Jevtić, Radovan Đurović
- 2. PARTICLE SIZE SENSITIVITY IN SMOOTH PARTICLE HYDRODYNAMICS NUMERICAL SIMULATION OF NATURAL FRAGMENTATION PHENOMENA**, Miloš Marković, Predrag Elek, Ivana Todić, Dejan Jevtić, Martin Macko
- 3. CALCULATION OF SAFE DIAMETER OF PROPELLANTS USING HEAT FLOW MEASUREMENTS**, Vesna Petrović, Slaviša Stojiljković, Jelena Šultans
- 4. INFLUENCE OF GUNPOWDERS AND ROCKET PROPELLANTS SAMPLE PREPARATION ON TEST RESULTS**, Jelena Šultans, Slaviša Stojiljković, Vesna Petrović
- 5. BLAST PERFORMANCE OF ISOPROPYL NITRATE - BASED THERMOBARIC EXPLO-**

**SIVES VS. CAST-CURED PBX**, Danica M. Bajić, Slavica Terzić, Mladen Timotijević, Radoslav Sirovatka, Dragan Knežević, Igor Blagojević, Maja Radmanovac

**6. UNSTEADY INTERNAL BALLISTIC CALCULATION OF ATYPICAL PROCESSES IN ROCKET MOTOR**, Saša Živković, Saša Antonović, Miloš Filipović, Mirko Karić, Mar-ko Karić

POSTER SECTION			
Session 7	HALL 2	Thursday, October 10 <sup>th</sup>	19:00 - 20:00

**1. MONITORING PLASTICIZER`S MIGRATION IN THE HMX/DOA MIXTURE UNDER ELEVATED TEMPERATURES**, Mirjana Krstović, Danica Bajić, Teodora Stančić, Mladen Timotijević, Bojana Fidanovski

**2. NUMERICAL MODELING OF EXPLOSIVELY FORMED PROJECTILES FORMATION**, Andjela Mitrović, Saša Savić, Milan Vučković, Nebojša Hristov, Damir Jerković, Mladen Josijević

**3. DEVELOPMENT OF LINER FOR CASE-BONDED GRAIN WITH END-BURNING CONFIGURATION**, Tihomir Kovačević, Slavko Mijatov, Alen Crnalić, Jelena Gržetić, Darko Kuprešak, Saša Brzić

**4. INFLUENCE OF DIFFERENT HMX/RDX CONTENTS IN COMPOSITE ROCKET PROPELLANTS ON THE VACUUM STABILITY TEST RESULTS**, Bojana Fidanovski, Slavko Mijatov, Mirjana Krstović, Marica Bogosavljević, Mirjana Dimić

5. SECTION : INTEGRATED SENSOR SYSTEMS AND ROBOTIC SYSTEMS - ISSRS			
Session 4	HALL 2	Thursday, October 10 <sup>th</sup>	17:00 - 19:00
Chairman: Miodrag Vračar / Rade Pavlović			

**1. THE IMPORTANCE OF PINHOLE SIZE TARGET IN THERMOGRAPHIC AND RADIO-METRIC MEASUREMENT**, Katarina Mišković

**2. IMPROVEMENT OF THE SIGNAL-TO-NOISE RATIO BY USING A STATISTICAL FILTER**, Miodrag Vračar, Stevo Vračar

**3. DESIGN OF A SERVO MECHANISM FOR CONTROLLING MISSILE FINS IN PITCH AND YAW PLANES**, Nebojša Jovičić, Aleksandar Stefanović, Marijana Stojanović, Miloš Pavić

**4. MULTISENSOR IMAGE FUSION: DATASET, METHODS AND PERFORMANCE EVALUATION**, Mohammed Zouaoui Laidouni, Boban Bondžulić, Dimitrije Bujakov-ić, Touati Adli, Milenko Andrić

**5. COMPARATIVE ANALYSIS OF YOLO ALGORITHMS FOR AIRCRAFT DETECTION IN REMOTE SENSING IMAGES**, Touati Adli, Dimitrije Bujaković, Boban Bondžulić, Mohammed Zouaoui Laidouni, Milenko Andrić

**6. HIGH ACCURACY WEAPONS**, Dragan Knežević, Milan Popović, Miloš Simić, Goran Marjanović

POSTER SECTION			
Session 7	HALL 2	Thursday, October 10 <sup>th</sup>	19:00 - 20:00

**1. NOVEL INSTRUMENT FOR AERODYNAMIC PRESSURE MEASUREMENTS WITH EXCHANGEABLE MULTISENSOR MODULES**, Miloš Frantlović, Miloš Vorkapić, Žarko Lazić, Milče M. Smiljanić, Ivana Jokić, Predrag Poljak, Dušan Nešić, Dragan Tanasković

**2. AZIMUTH ANGLE ERROR DEPENDING OF THE INERTIAL NAVIGATION SYSTEM MOUNTING ERROR**, Vladimir Vukmirica Phd, Ivana Trajkovski Msc, Nada Asanović Eng, Adrijana Jovanović Msc

**3. APPLICATION OF SCREW THEORY AND ITS IMPLEMENTATION IN PYTHON FOR CONTROLLING A NIRYO ONE MANIPULATOR**, Vuk Todorović, Milan Blagojević, Nikola Nešić

**4. UWB SENSOR PERFORMANCE IN UGV 'FOLLOW ME' APPLICATIONS WITH OBSTACLE INTERFERENCE**, Rade Pavlović, Nina Mitričević, Srđan Savić

6. SECTION : TELECOMMUNICATION AND INFORMATION SYSTEMS - TIS			
Session 10	HALL 2	Friday, October 11 <sup>th</sup>	11:30 - 13:30
Chairman: Boban Sazdić-Jotić			

**1. SIMPLE ENERGY DETECTOR FOR TWO-STAGE CLASSIFICATION FOR ANTIDRONE SYSTEMS**, Snežana Zurovac, Nikola Petrović, Vasilija Joksimović, Ivan Pokrajac, Darko Mikanović, Boban Sazdić-Jotić

**2. AN EXAMPLE OF VHF RADAR SIGNAL PROCESSING**, Darko Pijević, Aleksandar Ristić, Dragan Nikolić, Dejan Ivković, Zvonko Radosavljević

**3. THE POWER CONSUMPTION OF EMBEDDED GPU COMPUTERS FOR DEEP LEARNING APPLICATIONS**, Boban Sazdić-Jotić, Snežana Zurovac, Nikola Petrović, Dragana Bojić

**4. THE USE OF GEOGRAPHIC INFORMATION SYSTEMS (GIS) IN THE TEACHING OF MILITARY TOPOGRAPHY**, Marko Stojanović, Nenad Galjak, Jasmina M. Jovanović, Marko Simić, Vladimir Vučenov

**5. SENTINEL-1 SAR INTERFEROMETRY FOR TERRAIN MONITORING: A CASE STUDY OF MINE DYNAMICS**, Miloš Basarić, Dušan Jovanović

**6. ANALYSIS OF TRAFFIC ACCIDENTS IN NOVI SAD USING GIS TECHNOLOGY**, Dejan Djordjević, Miloš Basarić, Ivan Garić

<b>6. SECTION : TELECOMMUNICATION AND INFORMATION SYSTEMS - TIS</b>			
Session 14	HALL 2	Friday, October 11 <sup>th</sup>	16:00 - 18:00
Chairman: Ivan Vulić / Ivan Pokrajac			

**1. CONTEMPORARY CRYPTOGRAPHY: RECENT ACHIEVEMENT AND RESEARCH PERSPECTIVES**, Boriša Jovanović, Ivan Tot, Silvana Ilić

**2. PROPOSITION OF LABORATORY EQUIPMENT AND ITS UTILISATION FOR COMPLEX BATTLEFIELD IP NETWORK SIMULATION**, Đorđe Nešković, Marko Marković, Lara Kašca, Stefan Stanković, Miroslav Perić, Mladen Koprivica, Dejan Drajić

**3. PERFORMANCE CHARACTERIZATION OF SECURE IP COMMUNICATION SYSTEMS FOR VARIOUS INTERACTIVITY LEVEL APPLICATIONS**, Lara Kašca, Đorđe Nešković, Marko Marković, Stefan Stanković, Miroslav Perić

**4. GRE TUNNEL UTILIZATION FOR MINIMIZING MULTI-VENDOR NETWORK EQUIPMENT ISSUES FOR VARIOUS TRANSMISSION CHANNELS**, Marko Marković, Lara Kašca, Đorđe Nešković, Stefan Stanković, Miroslav Perić, Mladen Koprivica, Goran Marković

**5. STANDARD CUMULANTS- BASED AUTOMATIC MODULATION CLASSIFICATION PERFORMANCE UNDER COLORED NOISE CHANNEL CONDITIONS**, Rade R. Božović, Vladimir D. Orlić

<b>POSTER SECTION</b>			
Session 7	HALL 2	Thursday, October 10 <sup>th</sup>	19:00 - 20:00

**1. DETERMINATION OF ELECTROMAGNETIC FIELD STRENGTH IN AREAS OF INCREASED SENSITIVITY AROUND RADIO TRANSMITTERS**, Ana Matović, Elmedin Biberović, Milan Gligorijević

**2. DIGITAL RADIO SYSTEM FOR REMOTE MONITORING AND CONTROL ON THE MEDIUM VOLTAGE DISTRIBUTION NETWORK USING THE PDR 300 RADIO DEVICE AS A TRANSMITTER**, Marija Matović, Ana Matović, Ivica Marjanović

**3. THE LEVEL CROSSING RATE OF THE NAKAGAMI-M RANDOM PROCESS**, Ivica Marjanović, Ana Matović, Marija Matović

**4. EXAMINATION OF THE PROTECTION FACTOR WITH A LASER PHOTOMETER,** Miljan Miletic, Marina Ilic, Tatjana Markovic

**5. OPTIMAL SOURCE LOCALIZATION IN A REAL RADIO CHANNEL BASED ON TDOA APPROACH USING THE HYBRID DIFFERENTIAL EVOLUTION ALGORITHM,** Maja Rosić, Miloš Sedak

**7. SECTION : MATERIALS AND TECHNOLOGIES - MT**

Session 5

HALL 3

Thursday, October 10<sup>th</sup>

17:00 - 19:00

Chairman: Saša Brzić

**1. THE INFLUENCE OF DESIGN CONDITIONS ON THE FAILURE OF THE UNIVERSAL CROSS JOINT (UCJ) OF THE CARDAN COUPLING,** Saša Spasenić, Mileta Ristivojević, Vladimir Milovanović, Aleksandar Dimić, Stefan Dikić, Sreten Spasenić

**2. SIGNIFICANT CHARACTERISTICS OF LEAD AND ALLOYS WITH ANTIMONY IN THE PRODUCTION OF SMALL ARMS AMMUNITION,** Miroslav Papović

**3. EFFECTS OF DIFFERENT SURFACE PREPARATIONS ON BONDING PROPERTIES OF ALUMINIUM ALLOY EN AW-5754,** Nataša Zdravković, Damjan Klobčar, Dragan Milčić, Miodrag Milčić, Vukašin Pavlović, Aleksija Đurić

**4. CAVITATION EROSION MONITORING OF MULLITE CERAMIC SAMPLE USING IMAGE ANALYSIS,** Sanja Martinović, Ana Alil, Tatjana Volkov Husović

**5. CORROSION OF 42CrMo4 STEEL IN MARINE ENVIRONMENT USING SEM/EDS ANALYSIS,** Stanica Nedović, Ana Alil, Sanja Martinović, Tatjana Volkov-Husović

**6. ADHESIVE JOINING OF 3D PRINTED PARTS,** Aleksija Đurić, Biljana Marković, Dragan Milčić, Srđan Samardžić, Miodrag Milčić, Nataša Zdravković

**7. CORROSION PROPERTIES OF LOW-CARBON STEEL WELDED JOINT IN SYNTHETIC SEA WATER ENVIRONMENT,** Mihael Bučko, Milan Jovanović Sreten Perić, Dragana Lazić, Jelena Marinković, Radovan Radovanović

**7. SECTION : MATERIALS AND TECHNOLOGIES - MT**

Session 11

HALL 3

Friday, October 11<sup>th</sup>

11:30 - 13:30

Chairman: Maja Vitorović-Todorović

**1. THE INFLUENCE OF THE PHASE TRANSFORMATION: Fhyd → FE3O4, OCCURS DURING THE ANNEALING TREATMENT OF SOL-GEL SYNTHESIS, ON THE ABSORPTION PROPERTIES OF THE FINAL SYNTHESIS PRODUCT (Fe3O4/C HOLLOW-SPHERE NANOPARTICLES),** Violeta Nikolić, Zoran Ivić, Jose F. M. L. Mariano

**2. THE DESIGN AND PREPARATION OF CERIUM-DIOXIDE AND ZIRCONIUM(IV)HYDROXIDE-INCORPORATED NANOFIBERS FOR THE DEGRADATION OF CHEMICAL WARFARE AGENTS**, Maja Vitorović-Todorović, Tamara Vujatović-Velimirov, Stevan Stupar, Danica Bajić

**3. CATALYTIC PROPERTIES OF PAPER-IMMOBILIZED HORSE SERUM BUTYRYLCHOLINESTERASE**, Sonja Bauk, Nataša Pajić

**4. MAGNETOIMPEDANCE EFFECT OF NANOCRYSTALLINE FeNiSiB and FeCuVSiB RIBBONS**, Radoslav Surla, Milica M. Vasić, Dragica M. Minić, Ljubica Radović, Nebojša Mitrović, Pavel Crnomarković

**5. Cu -DECORATED TiO<sub>2</sub> NANOPARTICLES AS THE PHOTOCATALYTIC MATERIAL FOR CIPROFLOXACIN DEGRADATION**, Marija Kovačević, Sanja Živković, Miloš D. Milović, Dragana Vasić Aničijević

**6. PRELIMINARY INVESTIGATION OF BAMBOO FIBRE METALLIZATION VIA CHEMICAL/ELECTROCHEMICAL METHODS**, Ivana Mladenović, Dušan Nešić, Marko Obradov, Miloš Vorkapić, Marija Vuksanović, Nebojša Nikolić, Dana Vasiljević Radović

**7. STRUCTURAL AND MAGNETIC PROPERTIES OF CoFeSiB AMORPHOUS WIRE GMI ELEMENT**, Nebojša Mitrović, Jelena Orelj, Borivoje Nedeljković, Radoslav Surla, Vladimir Pavlović

POSTER SECTION			
Session 7	HALL 2	Thursday, October 10 <sup>th</sup>	19:00 - 20:00

**1. EXAMINING FATIGUE OF FIBER REINFORCED POLYMER: A COMPREHENSIVE REVIEW**, Amer. Alsammarraie, Muraja S. Slman

**2. REVIEW ON GRAPHITE PLUGGED BRONZE BUSHINGS**, Amir Alsammarraie, Bmaki H. Zaidan, Cali K. A. Aljboury

**3. IMPACT OF ACTIVE FILLER COMPOSITION MODIFICATION ON THE SORPTION CHARACTERISTICS OF FILTERS**, Biljana Mihajlović, Marina Ilić, Tatjana Marković, Vukica Grković

**4. EFFECT OF TEMPERING PARAMETERS ON MICROSTRUCTURE AND HARDNESS OF A LOW ALLOY ARMOR STEEL**, Gvozden Jovanović, Dragomir Glišić, Stefan Dikić, Esmail Ali Salem Ahmed, Nenad Radović

**5. ENHANCED METHOD FOR MEASURING MATERIAL RESISTANCE TO BURNING NAPALM MIXTURE**, Tatjana Markovic, Marina Ilic, Zeljko Senic, Sonja Bauk, Miljan Miletic

**6. CAVITATION EROSION MONITORING OF 42CrMo4 STEEL SAMPLES USING THE IMAGE AND MORPHOLOGICAL ANALYSIS**, Ana Alil, Stanica Nedović, Sanja Martinić, Tatjana Volkov Husović

**7. SELECTIVE ELECTRODEPOSITION TO EXTRACT COBALT AND NICKEL FROM LEACHING SOLUTION**, Jonas Mitterecker, Milica Košević, Marija Mihailović

**8. ALTERNATIVES TO CADMIUM PROTECTION IN DEFENSE AND AEROSPACE INDUSTRY**, Konstantin Komatina, Milan Ignjatović, Stefan Tomić, Dunja Crnogorac

**9. PORTABLE RAMAN SPECTROSCOPY FOR DETECTION OF AMMONIUM NITRATE–FUEL OIL EXPLOSIVE PRECURSORS**, Denis Dinić, Branislav Stojković, Dijana Aksentijević, Milan Tanić, Negovan Ivanković, Nemanja Jovanović, Marko Anđelković

**10. ADSORPTION OF ORGANOPHOSPHATE PESTICIDES ON NITROGEN-DOPED CARBON CRYOGELS AND THE ASSESSMENT OF THEIR NEUROTOXIC EFFECTS**, Vladan J. Anićijević, Tamara Tasić, Vedran Milanković, Dalibor B. Jovanović, Radvan M. Karkalić, Miloš Baljzović, Biljana M. Babić, Igor A. Pašti, Tamara D. Lazarević-Pašti

**11. ADSORBING DANGER: CARBON MATERIAL COMBATting ORGANOPHOSPHATE**, Tamara Tasić, Vedran Milanković, Vladan Anićijević, Igor Pašti, Tamara Lazarević-Pašti

**12. ORGANOPHOSPHORUS NEUROTOXINS REMEDIATION IN DYNAMIC CONDITIONS**, Vedran Milanković, Tamara Tasić, Vladan Anićijević, Igor Pašti, Tamara Lazarević-Pašti

**13. MICROSTRIP DC-BLOCK ON TEXTILES USING ONLY SELF-ADHESIVE COPPER TAPE**, Dušan Nešić, Dragan Tanasković, Miloš Vorkapić

**14. DETERMINATION OF NATURAL BACKGROUND RADIATION IN AN URBAN AREA AS AN ASPECT OF NUCLEAR SECURITY DETECTION ARCHITECTURE: AN EXAMPLE FROM THE CITY OF KRUŠEVAC, SERBIA**, Milan Tanić, Denis Dinić, Stevan Stupar

**15. DETERMINATION OF THE TEMPERATURE PROFILE OF SELECTED MOBILE PHONE CHARGERS AS A SAFETY FACTOR IN TERMS OF THERMAL RADIATION**, Ljubiša Tomić, Saša Veselinović, Marina Simović Pavlović, Katarina Nestorović, Darko Janković, Darko Vasiljević

**16. INFLUENCE OF SMALL ARMS AMMUNITION ON TARGETS MADE OF GRANULAR MATTER**, Marina Simović Pavlović, Vladimir Obradović, Darko Janković, Maja Pagnacco, Ljubiša Tomić, Darko Vasiljević

**8. SECTION : QUALITY, STANDARDIZATION, METROLOGY, MAINTENANCE AND EXPLOITATION - QSMME**

Session 13

HALL 1

Friday, October 11<sup>th</sup>

16:00 - 18:00

Chairman: Srđan Živković

**1. ANALYSIS OF RESULTS OBTAINED DURING CALIBRATION OF FORCE TRANSDUCERS**, Igor Goršić, Saša Antonović, Violeta Brnin, Saša Gundelj

**2. COORDINATE METROLOGY DATA MANAGEMENT OF MACHINE PARTS MADE BY METAL ADDITIVE MANUFACTURING**, Srdjan Živković, Slobodan Malbašić, Miloš Stepanović

**3. IMPLEMENTATION OF ZIGBEE TECHNOLOGY IN THE PROCESS OF SENSOR CALIBRATION IN WIRELESS SENSOR NETWORK SYSTEMS**, Igor Medenica, Miloš Jovanović, Slobodan Subotić, Dragan Lazić

**4. GROUNDWATER AS AN IMPORTANT RESOURCES IN EMERGENCY SITUATIONS OF THE REPUBLIC OF SERBIA**, Boris Vakanjac, Radoje Banković, Vesna Ristić Vakanjac, Saša Milanović, Ljiljana Vasić, Saša Bakrač, Nikola Kozić

**5. RISK MANAGEMENT IN INDUSTRIAL SECURITY IN THE FIELD OF PRODUCTION AND TRADE OF WEAPONS AND MILITARY EQUIPMENT**, Nenad Komazec, Katarina Janković, Milica Mladenović

**6. IMPROVEMENT OF PRODUCT QUALITY BY IMPLEMENTATION QFD METHODS**, Branko Vujatović, Marija Vujatović, Darko Grubač, Nenad Stojanović

**7. COMPARATIVE ANALYSIS OF INFORMATION SECURITY STANDARDS APPLICATION IN DIFFERENT IT SECTOR REGIONS**, Predrag Ranitović, Siniša Mitić

**8. THE NEW METHOD FOR SOLVING GAMMA-GAMMA, X-X, X-GAMMA COINCIDENCE SUMMING IN GAMMA SPECTROSCOPY**, Dragana Jordanov, Laslo Nadjd-jerdj, Milena Rosić

**9. DEFENSE ACQUISITIONS AND INTERNATIONAL POLITICS**, Marko Jovanović, Goran Vukadinović

**POSTER SECTION**

Session 7

HALL 2

Thursday, October 10<sup>th</sup>

19:00 - 20:00

**1. THE IMPACT OF DIVERSIFICATION STRATEGY ON COMPANY PERFORMANCE IN DEFENSE INDUSTRY**, Srđan Mirković, Mihajlo Ranisavljević, Igor Đorić

**2. STUDY AND ANALYSIS THERMAL PERFORMANCE OF TAZA GAS POWER PLANT**



**IN KIRKUK –IRAQ**, H. J. Khalafa, M. I. Qaddouri

**3. RELIABILITY OF ARTIFICIAL INTELLIGENCE**, Slavko Pokorni

**4. TEST SETUP FOR QUALIFICATION OF POWER SUPPLY FOR GENIII NIGHT VISION IMAGE INTENSIFIERS**, Slobodan Petričević, Peđa Mihailović, Petar Atanasijević

**5. BENFORD’S LAW IN SERVICE OF DATA QUALITY: TWO CASES OF NATURAL NUMBERS**, Igor Đorić, Slađana Vujičić, Mihajlo Ranisavljević

**6. THE ROLE OF INTELLECTUAL CAPITAL REPORTING IN THE PROCESS OF SUPPLY CHAIN INTEGRATION OF THE MILITARY TECHNICAL INSTITUTE**, Aleksandar Savić, Mihajlo Ranisavljević, Milan Mihajlović

<b>SECTION: YOUNG RESEARCHERS</b>			
Session 1	HALL 1	Thursday, October 10 <sup>th</sup>	09:00 - 10:30
Chairman: Aleksandar Kari			

**1. ANALYSIS OF THE BEHAVIOUR OF THE MOBILE PLATFORM DURING FIRING**, Milan Simonović, Marko Simonović, Aleksandra Živković, Ana Gačić, Aleksandar Kari

**2. THE CONCEPT OF REMOTE CONTROLLED WEAPON STATION FOR SELF-PROPELLED MORTARS**, Aleksandra Živković, Milan Simonović, Goran Dragović, Marija Milovanović, Nina Mitričević

**3. DESIGN OF MORTAR BARREL 82 mm ON BASIS OF ANALYSIS OF INTERNAL BALLISTICS PARAMETERS**, Marija Milovanović, Nikola Radovanović, Nebojša Hristov, Lazar Arsić, Aleksandra Živković

**4. SIMULATION MODEL OF TANK COMBAT**, Marko Simonović, Milan Simonović, Lazar Arsić, Ana Gačić, Dušan Božić

**5. PROBABILITY OF HITTING AND DESTROYING A SURFACE TARGET FOR ARTILLERY ROCKETS**, Katarina Nestorović, Marina Simović – Pavlović, Miloš Pavić, Srđan Stojković, Slobodan Bosiljčić

**6. PERSPECTIVES ON THE DEVELOPMENT OF THE ARTILLERY BRANCH OF THE SERBIAN ARMY**, Katarina Janković, Nenad Komazec

<b>SECTION: YOUNG RESEARCHERS</b>			
Session 2	HALL 1	Thursday, October 10 <sup>th</sup>	14:30 - 17:00
Chairman: Dragomir Glišić			

**1. INFLUENCE OF TEMPERING TEMPERATURE ON MECHANICAL PROPERTIES OF G42CrMo4 CAST STEEL**, Đorđe Ivković, Dušan Arsić, Anđela Mitrović, Vladimir

Milovanović, Dragan Adamović, Vesna Mandić, Marko Delić

**2. INFLUENCE OF PROCESS PARAMETERS IN ADDITIVE MANUFACTURING ON THE QUALITY OF PRODUCED METAL PARTS**, Maja Mladenović, Jovana Mandić, Aleksandar Ćitić, Vesna Pejović, Aleksa Grubić, Srđan Živković

**3. FAILURE ANALYSIS OF WELDED JOINT BETWEEN ROCKET MOTOR CASE AND FINS**, Aleksandar Ćitić, Nada Ilić, Maja Mladenović, Vesna Pejović

**4. THE DESIGN AND SYNTHESIS OF THE FOUR NOVEL DUAL REVERSIBLE INHIBITORS OF ACETYLCHOLINESTERASE BASED ON THE TACRINE AND AROYLACRYLIC ACID PHENYLAMIDE SUBSTRUCTURES**, Tamara B. Vujatović-Velimirov, Milan R. Nikolić, Maja D. Vitorović-Todorović

**5. INVESTIGATION OF THE DEPENDENCE OF PRESSURE DROP AND PARTICLES FLOW RATE ON THE PARTICLE DIAMETER IN SPOUT-FLUIDIZED BED**, Teodora Stančić, Mihal Đuriš, Tatjana Kaluđerović Radoičić

**6. USAGE OF MULTI-HOLE PROBE ON UAV WITH WARHEAD**, Ilija Nenadić, Dijana Damljanović, Biljana Dovatov, Marko Bek-Uzarov

**7. DESIGN AND VERIFICATION OF A PNEUMATIC LAUNCH SYSTEM FOR A SINGLE-USE UAV WITH A WARHEAD**, Marko Bek-Uzarov, Ilija Nenadić, Stefan Rašić

<b>SECTION: YOUNG RESEARCHERS</b>			
Session 8	HALL 1	Friday, October 11 <sup>th</sup>	09:00 - 11:00
Chairman: Rade Pavlović			

**1. EVALUATION OF THE INFLUENCE OF POWER SETTING ON AIRCRAFT PERFORMANCE IN A SPIN**, Jelena Šobot, Đorđe Jankuloski, Miša Živković, Jasminka Jelisavac, Ivan Vesić

**2. NUMERICAL INVESTIGATION OF THICKNES, ASPECT AND TAPER RATIO INFLUENCE ON DIVERGENCE VELOCITIES OF COMPOSITE PLATES AT SUBSONIC MACH NUMBERS**, Aleksa Maljević, Mirko Dinulović, Nemanja Deura

**3. CASE STUDY: IMPLEMENTATION PERSPECTIVES OF END-TO-END ENCRYPTION IN MILITARY IOT**, Kristina Živanović, Dimitrije Kolašinac, Stefan Ivanović, Jovana Mihailov, Marija Šekler

**4. TESTING THE ROLL STABILIZATION OF A SUPERSONIC SURFACE-TO-AIR GUIDED MISSILE**, Marijana Stojanović, Aleksandar Stefanović, Nebojša Jovičić, Ivan Marić

**5. FRACTIONAL ORDER ITERATIVE LEARNING CONTROLLER WITH PSO-BASED PARAMETERS TUNING FOR ROBOTIC SYSTEMS**, Nikola Živković, Mihailo Lazarević,

Jelena Vidaković, Stjepko Pišl

**6. ANALYSING USAGE OF COMMERCIAL GRADE SINGLE ANTENNA INERTIAL NAVIGATION SYSTEM IN COMBAT UNMANNED GROUND VEHICLES FOR ESTIMATING ORIENTATION AND POSITION**, Goran Dragović, Nedeljko Dučić, Stefan Jovanović, Marko Simonović, Dušan Božić

**7. IMPLEMENTATION OF AN ALGORITHM FOR AUTONOMOUS MOVEMENT ON A ROBOTIC PLATFORM**, Nina Mitričević, Rade Pavlović