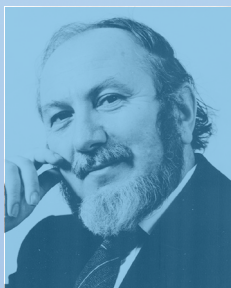




12th INTERNATIONAL SCIENTIFIC CONFERENCE
ON DEFENSIVE TECHNOLOGIES

Serbia, Tara, 21st - 24th October 2026

PROGRAMME



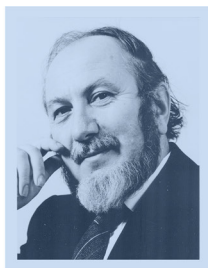
Miomir Vukobratović
1931 - 2012

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12th INTERNATIONAL SCIENTIFIC CONFERENCE
ON DEFENSIVE TECHNOLOGIES

Republic of Serbia, Tara
October 21st - 24th, 2026



Miomir Vukobratović
1931 - 2012

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CONFERENCE AGENDA

Wednesday, October 21st, 2026

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

Thursday, October 22nd, 2026

09:00 - 10:30	Session 1- Young researchers			
09:00 - 11:00	Participants registration			
11:00 - 11:40	OPENING CEREMONY A brief introduction: Military Technical Institute Director, col. Ivan Pokrajac, PhD Eng Conference opening: Main Guest Plenary lecture: On Life and Work of Miomir Vukobratovic, Presented by Aleksandar Rodić, PhD Eng Mihailo Pupin Institute, Belgrade (Conference Hall)			
11:40 - 12:00	Break/Cocktail and conference participants joint photo (Hall)			
12:00 - 12:40	INTRODUCTORY LECTURES INTRODUCTORY LECTURE/ INVITATION LECTURE Presented by DRS RADA TECHNOLOGIES Israel INTRODUCTORY LECTURE/ INVITATION LECTURE Artificial Intelligence from Perception to Autonomous Action: Applications, Opportunities and Challenges Presented by Velibor Ilić, PhD Eng, The Institute for Artificial Intelligence Research and Development of Serbia (Conference Hall)			
12:40 - 14:30	Break			
14:30 - 17:00	Round table discussion - only by invitation (Banket Hall)			
	SESSIONS			
14:30 - 17:00	Session 2 - Young researchers			
17:00 - 19:00	Session 3-A	Session 4- ISSRS	Session 5- TIS	Session 6- AEM
19:00 - 20:00	Session 7- AFD		Session 8-POSTER presentation (Hall, 1 st floor)	
20:00 - 24:00	CEREMONIAL DINNER			

Friday, October 23th, 2026

	SESSIONS			
9:00 - 11:00	Session 9-Young researchers		Session 10-POSTER presentation (Hall, 1 st floor)	
11:00 - 11:30	Coffee break			
	SESSIONS			
11:30 - 13:30	Session 11- QSMME	Session 12- TIS	Session 13- ISSRS	Session 14- WSCV
14:00 - 15:30	Break			
	SESSIONS			
16:00 - 18:00	Session 15 - TIS	Session 16 - MT		Session 17 - WSCV
18:30 - 19:00	Conference Closing and Awards Ceremony			
19:00 - 20:00	Cocktail (Conference Hall)			

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	7
2.	A - Aircraft	8
3.	WSCV - Weapon Systems and Combat Vehicles	25
4.	AEM - Ammunition and Energetic Materials	12
5.	ISSRS - Integrated Sensor Systems and Robotic Systems	26
6.	TIS - Telecommunication and Information Systems	26
7.	MT- Materials and Technologies	36
8.	QSMME - Quality, Standardization, Metrology, Maintenance and Exploitation	20

1. SECTION : AERODYNAMICS AND FLIGHT DYNAMICS - AFD

Session 7	HALL 1	Thursday, October 22 nd	19:00 - 20:00
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Chairman: Goran Ocokoljić

1. SIMULATING SHOCK-WAVE/BOUNDARY-LAYER INTERACTIONS, Jelena Svorcan, Dragoljub Tanović, Milica Ivanović

2. HIGH-PRESSURE JET SUPPLY SYSTEM FOR POWERED WIND TUNNEL MODELS: CALIBRATION AND PERFORMANCE, Biljana Ilić, Marija Samardžić, Božidar Simović, Isidora Stanković, Ognjen Babić, Goran Ocokoljić

3. COMPARISON OF MISSILE AERODYNAMIC DATA OBTAINED IN WIND TUNNEL TESTS USING TWO INTERNAL STRAIN GAUGE BALANCES, Marija Samardžić, Biljana Ilić, Isidora Stanković, Božidar Simović, Ognjen Babić, Goran Ocokoljić

4. SIDE JET INTERACTION WITH SUBSONIC, TRANSONIC AND SUPERSONIC CROSSFLOW: SURFACE PRESSURE DISTRIBUTION, Božidar Simović, Biljana Ilić, Marija Samardžić, Isidora Stanković, Ognjen Babić, Goran Ocokoljić

POSTER SECTION

Session 10	Hall, 1 st floor	Friday, October 23 th	09:00 - 11:00
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1. COMPARATIVE STUDY OF HYBRID DOLPHIN AND OTHER BIONIC AIRFOILS FOR DEFENSE APPLICATIONS, Zorana Z. Dančuo, Ivan A. Kostić, Olivera P. Kostić, Aleksandar Č. Bengin, Goran S. Vorotović

2. SECTION : AIRCRAFT - A

Session 3	HALL 1	Thursday, October 22 nd	17:00 - 19:00
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Chairman: Miodrag Milenković-Babić

1. AIRCRAFT LIFE EXTENSION THROUGH INTEGRATED STRUCTURAL ASSESSMENT AND SYSTEM REVALIDATION, Marina Ostojić, Tamara Nikolić, Marko Prošić

2. DRONE MILITARY TESTING, Stevan Jovičić, Danilo Vukosavljević, Nikola Zdravković, Jelena Šobot

3. CRITICAL LOAD CALCULATION FOR SOME KIND OF NONUNIFORM STRUTS, Bogdan S. Bogdanović, Tonko A. Mihovilović

4. DESIGN AND VALIDATION OF TOPOLOGY-OPTIMIZED 3D-PRINTED QUADCOP-TER ARMS, Milan Z. Rakić, Toni D. Ivanov

5. PROPELLER-MOTOR MATCHING FOR MINI-UAV: THRUST AND EFFICIENCY ESTIMATION BY USING THE LY-MICRO-MAX TEST STAND, Miodrag Milenković-Babić, Branislav Ostojić, Aljoša Ljuboja, Mario Silvagni

6. ESSENTIAL TECHNICAL KNOWLEDGE AND SKILLS FOR FUTURE MILITARY AND CIVIL PILOTS IN THE REPUBLIC OF SERBIA, Slaviša Vlačić, Aleksandar Knežević, Nebojša Radojković

POSTER SECTION			
Session 10	Hall, 1 st floor	Friday, October 23 th	09:00 - 11:00

1. SM2-M UAV AND Q GROUND CONTROL: SYNERGY OF AUTONOMOUS GUIDANCE AND REAL-TIME MISSION MONITORING IN MODERN MILITARY OPERATIONS, Miloš Ugrenović

3. SECTION : WEAPON SYSTEMS AND COMBAT VEHICLES - WSCV			
Session 14	HALL 4	Friday, October 23 th	11:30 - 13:30
Chairman: Nebojša Hristov			

1. A BALLISTIC MODULE ARCHITECTURE FOR MORTAR FIRE CONTROL SYSTEMS, Miloš Marković, Andrija Ostojić, Dejan Jevtić

2. PERFORMANCE ANALYSIS OF SPECIAL SUBSONIC SMALL CALIBER WEAPONS FOR URBAN CONDITIONS, Nebojša Hristov, Damir Jerković, Aleksa Aničić, Miljko Pavlović, Igor Epler

3. TOOTH ROOT LOAD-CARRYING CAPACITY OF SPUR GEARS UNDER STANDARD SINGLE AND DOUBLE MESH CONDITIONS, Vuk Milanović, Predrag Dobratić, Miloš Sedak, Dragan Trifković

4. CHALLENGES OF DRONE-DELIVERED EXPLOSIVE ORDNANCE: TECHNICAL, OPERATIONAL, AND LEGAL-ETHICAL CONSIDERATIONS, Vinko Žnidaršić, Stevan M. Mušicki, Nenad V. Kovačević

5. BIASED PURSUIT GUIDANCE LAW FOR REAR-SECTOR TARGET INTERCEPTION, Milos Pavić, Saša Antonović, Ivan Marić

6. CALIBRATION OF DIAL INDICATORS, Dragan Lazić, Žaklina Čutović, Miloš Jovanović

3. SECTION : WEAPON SYSTEMS AND COMBAT VEHICLES - WSCV

Session 17	HALL 4	Friday, October 23 th	16:00 - 18:00
Chairman: Damir Jerković			

1. MONTE CARLO BASED PRECISION ANALYSIS OF A LONG-RANGE ARTILLERY PROJECTILE, Damir D. Jerković, Nebojša Hristov, Aleksandra Obradović, Nikola Mačar, Branislav Nikolić

2. SHEAR STRESS-BASED FORCE MODELING FOR M-84 TRACKED VEHICLE ON DEFORMABLE TERRAIN, Momir Drakulić, Aleksandar Đurić

3. DESIGN, MANUFACTURING AND TESTING OF A FUNCTIONAL MODEL OF A DEVICE WITH A SECURING EXECUTIVE MECHANISM FOR MULTIPLE REMOTE ACTIVATION OF PYROTECHNIC ELEMENTS ON UNMANNED PLATFORMS, Slobodan Bosiljić, Miroslav Gluvačević, Goran Marjanović, Jelena Petković Cvetković

4. TOTAL QUALITY INTEGRATED IN NEW AMMUNITION PRODUCTS IN AD "PRVI PARTIZAN" (ACCORDING TO ISO/TR 14062 - 2002), Svetolik Spasenić

5. OPTIMIZATION OF CHASSIS GEOMETRY FOR INCREASING THE PRODUCTION CAPACITY OF 4X4 VEHICLE PLATFORM, Mihajlo Vasiljević, Bogdan Živković, Jovanka Lukić

6. PREDICTION ALGORITHM FOR THE IMPACT POINT PROJECTILE TRAJECTORY USED FOR DETERMINING CORRECTIVE SHOOTING PROCEDURE ELEMENTS, Dragoslav R. Petrović

POSTER SECTION

Session 8	Hall, 1 st floor	Thursday, October 22 nd	19:00 - 20:00
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1. IMPLEMENTATION AND EXPERIMENTAL VERIFICATION OF ENVIRONMENTAL SAFETY SENSOR DEVICE FOR FUZES IN AERIAL BOMBS, Slobodan Pelemiš, Nikola Latinović, Mladen Veinović

POSTER SECTION

Session 10	Hall, 1 st floor	Friday, October 23 th	09:00 - 11:00
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1. A NEW METHOD FOR INTERPOLATION OF ROCKET MOTOR THRUST - TIME CURVE FOR ARBITRARY PROPELLANT TEMPERATURE, Miodrag Čurčin, Goran Marjanović, Srđan Stojković

2. PRACTICAL APPROACHES TO QUALITY TESTING OF PIONEER MACHINES, Dragan Stojadinović, Aleksandar Đurić, Snežana Jovanović, Miroslav Jovanović, Sreten

Perić

3. INTERNAL BALLISTICS-BASED DESIGN AND STRUCTURAL ANALYSIS OF A 30×165 mm CANNON BARREL, Mihailo Bojković, Vladimir Dunić, Vladimir Milovanović

4. COMPARATIVE ANALYSIS OF THEORETICAL AND EXPERIMENTAL MUZZLE VELOCITIES FOR THE EVALUATION OF POSSIBLE BARREL WEAR FOR THREE 30 mm BARRELS, Vuk Garčević, Andrija Veljović, Igor Radisavljević

5. ANALYSIS OF OSCILLATIONS OF A MOBILE PLATFORM UNDER THE ACTION OF FIRING FORCE, Marko Simonović, Milan Simonović, Pera Srbul, Ana Simonović, Vuk Garčević

4. SECTION : AMMUNITION AND ENERGETIC MATERIALS - AEM			
Session 6	HALL 4	Thursday, October 22 nd	17:00 - 19:00
Chairman: Predrag Elek			

1. TBX FORMULATIONS WITH ALTERNATIVE METAL FUELS, HIGH EXPLOSIVES AND OXIDIZERS, Thomas M. Klapötke, Danica Bajić, Stanisław Cudziło, Muhamed Sućeska

2. STABILITY EVALUATION OF MULTI-COMPONENT PBX UNDER VARYING CLIMATIC CONDITIONS, Mirjana Krstović, Teodora Stančić, Vesna Petrović, Katarina Nestorović, Jelena Šultans, Danica Bajić

3. EXPERIMENTAL AND NUMERICAL STUDY OF PRECURSOR SHAPED CHARGE PERFORMANCE, Predrag Elek, Biljana Jovanović, Dragana Jelić, Danijela Obradović, Danica Jelić, Dušan Blagojević

4. MODIFIED PBXN-5 EXPLOSIVE: EFFECT OF IF-WS2 NANOPARTICLES ON PHLEGMATIZATION OF HMX, Danica Bajić, Mirjana Krstović, Ivan Dimitrijević, Mladen Timotijević, Ognjen Rajković, Jelena Marinković

5. NUMERICAL-EXPERIMENTAL ANALYSIS OF EXPLOSIVELY FORMED PROJECTILE PENETRATION CHARACTERISTICS, Andjela Ivković, Sasa Savić, Jelena Marinković, Mladen Timotijević

6. INFLUENCE OF GROOVE GEOMETRY ON THE INTERNAL BALLISTICS OF A MONOLITHIC .308 CALIBER BULLET, Igor Babić, Mihailo Erčević

POSTER SECTION

Session 10

Hall, 1st floor

Friday, October 23th

09:00 - 11:00

1. ANALYSIS OF ENERGY DISSIPATION DURING THE IMPACT OF AIR WEAPON PROJECTILES INTO GRANULAR MATERIALS – COMPARISON OF ANALYTICAL MODEL AND EXPERIMENTAL RESULTS, Darko Jankovic, Marina Simovic Pavlovic, Nada Citakovic, Lana Milosavljevic, Ljubisa Tomic, Martin Ocsenhofer, Darko Vasiljevic

2. SAPONIFICATION AS AN ENABLING STEP FOR FAST GC DETERMINATION OF STABILIZERS IN SMOKELESS POWDERS, Teodora Stančić, Nada Marinković, Suzana Kovačević, Mirjana Milekić, Vesna Petrović, Mirjana Krstović

3. ANALYTICAL DETERMINATION OF MEAN BALLISTIC PRESSURE FROM THE ENERGY BALANCE OF PROPELLANT COMBUSTION PRODUCTS WITH EXPERIMENTAL VALIDATION, Slobodan Orašanin, Miodrag Lisov, Aleksa Aničić, Miloš Jončić, Miljko Pavlović

4. DEFINITION OF A METHOD FOR VERIFYING THE QUALITATIVE CHARACTERISTICS OF ELECTRIC IGNITER HEADS, Jelena Petković-Cvetković, Branka Džunić, Slobodan Bosiljčić, Goran Marjanović, Dragan Knežević, Jelena Mojsilović, Marko Radisavljević

5. SECTION : INTEGRATED SENSOR SYSTEMS AND ROBOTIC SYSTEMS - ISSRS

Session 4

HALL 2

Thursday, October 22nd

17:00 - 19:00

Chairman: Slobodan Simić

1. REAL-TIME THERMAL IMAGE SYNTHESIS IN UNITY 3D VIA EMPIRICAL INFRARED ADAPTATION OF LIGHT SIMULATION MODELS, Bojan Šmidling, Stefan Stojkov

2. INTERACTING MULTIPLE MODEL-BASED ESTIMATION OF AIRSPEED AND ALTITUDE FROM PITOT-STATIC MEASUREMENTS, Vlada Sokolović, Momir Stanković, Goran Marković

3. FEDERATED LEARNING FOR AUTONOMOUS DISTRIBUTED GNSS JAMMING SWARMING STATIONS, Boban Sazdić-Jotić, Dragana Bojić, Radiana Brusin

4. IMPACT OF JPEG COMPRESSION ON YOLO-BASED ROAD SCENE OBJECT DETECTION IN VISIBLE AND THERMAL IMAGES, Boban Pavlović, Boban Bondžulić, Dimitrije Bujaković, Momir Stanković

5. A LAYERED COUNTER-UAS CONCEPT: FROM MULTI-SENSOR DETECTION AND CLASSIFICATION TO KILL-WEB INTEGRATION, Ilija Popadić, Miljan Vučetić, Zoran Banjac, Boško Božilović, Ivan Vulić

6. COMPARATIVE ANALYSIS OF YOLO MODELS FOR OBJECT DETECTION IN IMAGES COMPRESSED WITH JPEG, BPG, AND VVC, Nikola Bukvić, Boban Bondžulić, Dimitrije Bujaković, Milenko Andrić, Boban Pavlović

5. SECTION : INTEGRATED SENSOR SYSTEMS AND ROBOTIC SYSTEMS - ISSRS

Session 13	HALL 3	Friday, October 23 th	11:30 - 13:30
Chairman: Boban Sazdić-Jotić			

1. IMPROVING DRONE DETECTION USING ACOUSTIC METHODS AND STATISTICAL FILTERING, Miodrag Vračar, Stevo Vračar, Radiana Brusin

2. SWARM INTELLIGENCE: DIFFERENCES BETWEEN BIOLOGICAL PRINCIPLES AND ARTIFICIAL INTELLIGENCE CAPABILITIES, Miloš Jovanović, Jelena Vasiljević, Igor Medenica, Dragan Lazić, Calin-Octavian Micloshina

3. STRUCTURAL INTEGRITY AND FEM-BASED OPTIMIZATION OF A MISSILE FIN SERVO MECHANISM, Nebojša Jovičić, Marko Bojanić, Aleksandar Stefanović, Marijana Stojanović

POSTER SECTION

Session 10	Hall, 1 st floor	Friday, October 23 th	09:00 - 11:00
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1. ADVANCED HYDROGEN DETECTION MATERIALS FOR CBRN APPLICATIONS: FROM METAL-ORGANIC FRAMEWORKS TO REAL-TIME THREAT ASSESSMENT, Ivana Perović, Snežana Brković, Mina Seović, Stefan Mitrović, Milena Pijović Radovanović, Jelena Georgijević, Petar Laušević

2. A COMPARATIVE EVALUATION OF SPECTROGRAM- AND BISPECTRUM- BASED TRANSFER LEARNING FOR DRONE AUDIO CLASSIFICATION, Sara Milanović, Miodrag Vračar, Ivan Pokrajac

3. AUTONOMOUS ROBOTIC SYSTEMS FOR 3D MOBILE MAPPING IN UNDER-GROUND MINING, Nenad Vušović, Milica Vlahović

4. EDGE AI DRONE CLASSIFICATION IN RADIO FREQUENCY DOMAIN, Vasilija Joksimović, Darko Mikanović, Radiana Brusin

5. PERFORMANCE EVALUATION OF PSO TUNED FRACTIONAL ORDER ILC FOR THE LOLA15 ROBOT, Nikola Živković, Mihailo Lazarević, Jelena Vidaković

6. AUTONOMOUS LOCOMOTION OF ROBOTIC DOGS IN MILITARY APPLICATIONS, Nina Mitričević, Rade Pavlović

7. APPLICATION OF THE BARTLETT METHOD FOR TARGETS ANGLE ESTIMATION

IN FMCW RADAR SYSTEMS, Borko Đaković, Slobodan Simić, Nikola Danilović

8. REACH AND WORKSPACE ENVELOPE ANALYSIS OF THE SIX-DOF ARTICULATED ROBOT ARMA6, Jelena Vidaković, Andrija Dević, Goran Vasilić, Nikola Živković, Ivana Vasović Maksimović

9. GENETIC ALGORITHM PARAMETER CONTROL FOR THE OPTIMAL DESIGN OF SPECTRALLY SELECTIVE 1D PHOTONIC CRYSTALS, Anja Perić, Olga Jakšić

10. UAV POSITION ESTIMATION THROUGH IMAGE MATCHING BETWEEN DRONE IMAGERY AND MAPS, Rade Pavlović, Sara Pavlović

6. SECTION : TELECOMMUNICATION AND INFORMATION SYSTEMS - TIS			
Session 5	HALL 3	Thursday, October 22 nd	17:00 - 19:00
Chairman: Nenad Stefanović			

1. AN EXAMPLE OF MISSILE-TO-TARGET INTERCEPTION, Zvonko Radosavljević, Dragan Nikolić, Darko Pijević, Dejan Ivković

2. A MULTI-CRITERIA APPROACH FOR AUTOMATION OF REAL-TIME WEAPON ASSIGNMENT PROCESS, Darko Pijević, Ksenija Bokić, Ina Masnikosa, Tanja Lacmanović

3. MODEL-BASED DESIGN AND IMPLEMENTATION OF AN OFDM TRANSMITTER FOR STM32F407 VIA MATLAB/SIMULINK, Saša Gundelj, Pavel Crnomarković, Srđan Trandafilović, Igor Goršić

4. EVALUATING THE EFFECTIVENESS OF THE LOCALLY DEPLOYED GPT-OSS MODEL IN DETECTING SMB AND RDP BRUTE-FORCE ATTACKS FROM WINDOWS SECURITY LOGS, Igor Petrović, Milomir Jovičević, Marko Premović, Mladen Veinović, Ivan Tot

5. POSITION BIAS IN MULTILINGUAL LANGUAGE MODELS APPLIED TO SERBIAN, Milomir Jovičević, Slaviša Ilić, Milan Gnjatović, Kristina Živanović

6. CHARACTERIZATION AND SUPPRESSION OF COMMON-MODE AND DIFFERENTIAL-MODE CONDUCTED EMI, Pavel Crnomarković, Saša Gundelj, Mihailo Knežević, Radoslav Surla

6. SECTION : TELECOMMUNICATION AND INFORMATION SYSTEMS - TIS			
Session 12	HALL 2	Friday, October 23 th	11:30 - 13:30
Chairman: Boban Pavlović			

1. SOFTWARE-DEFINED RADAR DIGITAL EXCITER, RECEIVER, AND SIGNAL

PROCESSOR, Miloš D. Jevtić, Stefan Stojkov, Nikola Luković, Miloš Otović, Srđan Radovanović, Ina Masnikosa, Dragan Nikolić, Darko Pijević, Dejan Ivković, Zvonko Radosavljević

2. TELECOMMUNICATION AND INFORMATION SYSTEMS INFORMATION-PSYCHOLOGICAL ACTIVITIES IN MODERN CONFLICTS, Jelena Bajić

3. EXTENDING THE XTTS MODEL FOR SERBIAN TEXT-TO-SPEECH GENERATION, Stefan Ivanović, Dimitrije Kolašinac, Jordan Atanasijević, Kristina Živanović

4. GEOSPATIAL ASSESSMENT OF THE DEVELOPMENT LEVEL OF LOCAL GOVERNMENT UNITS IN THE REPUBLIC OF SERBIA, Zoran Kričković, Tin Lukić, Saša Bakrač, Vladan Tadić, Emina Kričković

5. AUTOMATING DIGITAL MAP PRODUCTION PROCESSES USING PYTHON GIS ALGORITHMS, Marko Simić, Saša Bakrač, Đorđe Đermanović, Matija Milić, Slaviša Tatomirović

6. MODULARITY OR COMPRESSION? A UNIFIED COMPARISON OF MIXTURE-OF-EXPERTS AND POLICY DISTILLATION AS EXECUTION MODULES FOR LLM-PLANNED AGENTS, Igor Ciganović, Aleksandar Pluškoski, Miloš Jovanović, Jelena Vasiljević

6. SECTION : TELECOMMUNICATION AND INFORMATION SYSTEMS - TIS			
Session 15	HALL 2	Friday, October 23 th	16:00 - 18:00
Chairman: Ivan Vulić			

1. PREVENTIVE EM MEASUREMENTS: COST-EFFECTIVE SOLUTION FOR AWARENESS OF EMERGING TEMPEST THREATS, Dragan Kondić, Borko Djaković, Milena Grdović, Nenad Stefanović

2. EVALUATION OF TRANSFORMER-BASED EMBEDDING MODELS FOR INFORMATION RETRIEVAL IN SERBIAN MILITARY TECHNICAL TEXTS, Slavimir Stošović, Nikola Vukotić

3. A RETRIEVAL-AUGMENTED GENERATION SYSTEM FOR SERBIAN MILITARY TECHNICAL DOCUMENTATION USING LOCAL LANGUAGE MODELS, Nikola Vukotić, Slavimir Stošović

4. DEEPFAKE DETECTION IN DEFENSE COMMUNICATION SYSTEMS: EVALUATION OF REAL-TIME DETECTION APPROACHES, Milan Ristić, Nikola Vukotić

5. AI-ASSISTED DECISION SUPPORT IN COMMAND-AND-CONTROL SYSTEMS: APPLYING THE SENSE-UNDERSTAND-DECIDE-ACT (SUDA) CYCLE, Ivan Vulić, Miljan

Vučetić, Ilija Popadić, Ranko Petrović, Zoran Banjac

POSTER SECTION			
Session 10	Hall, 1 st floor	Friday, October 23 th	09:00 - 11:00

1. DEEPPAKE TECHNOLOGY AND THE TRANSFORMATION OF TRUST IN CONTEMPORARY INFORMATION SYSTEMS, Sanela Veljković, Marina Dabetić, Anita Klikovac

2. A MULTI-OBJECTIVE APPROACH TO OPTIMIZING VIRTUALIZED MILITARY DATA CENTER INFRASTRUCTURE WITH GENETIC ALGORITHMS, Nikola Zogović, Sava Stanišić, Borislav Đorđević

3. EFFICIENCY ANALYSIS OF A STEGANOGRAPHY METHOD BASED ON PIXEL VALUE DIFFERENCES, Sanja Klajić, Branko Vujatović, Darko Grubač, Nenad Stojanović

4. COMPARATIVE EVALUATION OF SIEM PLATFORMS IN DETECTING MITRE ATT&CK TECHNIQUES BASED ON FALSE POSITIVE ANALYSIS, Marko Premović, Mladen Veinović, Boban Stojanović, Igor Petrović

5. QUANTITATIVE ASSESSMENT OF ZERO TRUST ARCHITECTURE EFFECTIVENESS AGAINST ADVANCED CYBER ATTACKS IN A SMALL-SCALE EMULATED GOVERNMENT AND MILITARY INFORMATION SYSTEMS, Boban Stojanović, Mladen Veinović, Marko Premović, Igor Petrović

7. SECTION : MATERIALS AND TECHNOLOGIES - MT			
Session 16	HALL 3	Friday, October 23 th	16:00 - 18:00
Chairman: Nenad Radović i Maja Vitorović-Todorović			

1. SOLITON-MEDIATED ENERGY TRANSFER AND MAGNETIZATION CONTROL IN PLD-GROWN E-Fe₂O₃ THIN FILMS, Violeta N. Nikolić, Jose F. M. L. Mariano

2. SYNTHESIS OF TITANIUM BASED POWDERS, Srećko Stopić, Bernd Friedrich, Duško Kostić, Mitar Perušić, Vladimir Damjanović, Radislav Filipović, Mirko Stamatović, Dejan Jovanović

3. INVESTIGATION OF NON-STOICHIOMETRIC TUNGSTEN OXIDES AS SUPPORTS FOR ANODE CATALYSTS IN PEM FUEL CELLS, Snežana Brković, Ivana Perović, Mina Seović, Stefan Mitrović, Milena Pijović Radovanović, Jelena Georgijević, Petar Laušević

4. ADDITIVE MANUFACTURING IN THE MILITARY INDUSTRY: RESILIENCE AND SUSTAINABILITY FOR SMALL STATES, Saša Veselinović, Stevan Jovičić, Dragan Stojadinović

5. BULLETPROOF/BULLET RESISTANT CERAMIC MATERIALS FOR ARMOR APPLICATIONS, Tatjana Volkov-Husović, Ana Alil, Sanja Martinović

6. DIFFERENT SYNTHETIC ROUTES OF CERIUM-DIOXIDE NANOPARTICLES PREPARATION AND THEIR EFFICIENCY IN SULFUR MUSTARD REMOVAL, Maja Vitorović-Todorović, Aleksandar Ćitić, Danica Bajić

7. MAGNETOIMPEDANCE EFFECT OF Fe₇₂Al₅Ga₂P₁₁C₆B₄ AMORPHOUS RIBBON, Radoslav Surla, Jovana Mandić, Jelena Orelj, Nebojša Mitrović, Pavel Crnomarković

8. CORRELATION BETWEEN IMPACT ENERGY AND THICKNESS IN QUENCHED AND TEMPERED LOW ALLOYED STEEL, Miloš Čenić, Esmail Ali Salem Ahmed, Srdja Perković, Nenad Radović, Dragomir Glišić, Stefan Dikić

POSTER SECTION			
Session 8	Hall, 1 st floor	Thursday, October 22 nd	19:00 - 20:00

1. THERMAL BEHAVIOR OF THE HIERARCHICAL STRUCTURE OF MORPHO DI-DIUS BUTTERFLY WINGS: IMPLICATIONS FOR PASSIVE INFRARED SIGNATURE MANAGEMENT, Marina Simović – Pavlović, Luka Marjanović, Katarina Nestorović, Darko Vasiljević

2. EXPERIMENTAL EVALUATION OF THE TENSILE PROPERTIES OF DIFFERENT TYPES OF ARMOUR STEEL AND THEIR WELDED JOINTS, Vladimir Milovanović, Dušan Arsić, Dušan Popadić, Miloš Pešić, Katarina Dragutinović

3. FLEXIBLE ELECTROCHEMICAL ENERGY SOURCES FOR WEARABLE SYSTEMS: TECHNICAL SOLUTIONS AND INTEGRATION WITH A MILITARY APPLICATION ASPECT, Božana Gačić, Mihael Bučko, Milica Košević, Radovan Karkalić, Sreten Perić

4. PERFORMANCE AND DEVELOPMENT TRENDS OF PERSONAL BALLISTIC PROTECTIVE EQUIPMENT IN THE CONTEXT OF MODERN THREATS, Siniša Gačić, Nikola Prodanović, Marko Milovanović

5. CARBON-BASED ADSORPTIVE MATERIALS FOR MITIGATION OF ORGANOPHOSPHATE CONTAMINANTS IN AQUATIC SYSTEMS, Vladan J. Aničijević, Katarina Korkanov Stanković, Vedran Milanković, Tamara Terzić, Radovan M. Karkalić, Tamara Lazarević-Pašti

6. INFLUENCE OF SURFACE PREPARATION ON THE MECHANICAL PROPERTIES OF ADHESIVELY BONDED JOINTS IN METAL STRUCTURES, Nataša Zdravković, Dragan Milčić, Damjan Klobčar, Tomaž Vuherer, Miodrag Milčić, Vukašin Pavlović, Aleksija Đurić

7. INVESTIGATION OF NON-STOICHIOMETRIC TUNGSTEN OXIDES AS SUPPORTS

FOR ANODE CATALYSTS IN PEM FUEL CELLS, Snežana Brković, Ivana Perović, Mina Seović, Stefan Mitrović, Milena Pijović Radovanović, Jelena Georgijević, Petar Laušević

8. FRICTION STIR WELDING IN THE JOINING OF LIGHT METAL ALLOYS: A REVIEW, Nada Ratković, Vesna Mandić, Dušan Arsić, Živana Jovanović Pešić, Marko Delić, Đorđe Ivković

9. GRAPHENE OXIDE FOR ORGANOPHOSPHATE REMOVAL – A DFT INSIGHT, Dragana Vasić Aničijević, Vladan Aničijević

10. INTEGRATED ELECTROCHEMICAL ASSESSMENT OF STEEL CORROSION IN CHLORIDE ENVIRONMENTS, Milica Vlahović, Marina Dojčinović, Đorđe Gjumišev, Nataša Đorđević, Jovanka Pejić

11. APPLICATION OF XRD AND AAS FOR EVALUATION OF MECHANOCHEMICAL REACTION PROGRESS, Nataša Đorđević, Srđan Matijašević, Nenad Vušović, Mladen Pejić, Slavica Mihajlović, Milica Vlahović

12. THE EFFECT OF PALLADIUM LOADING ON PD-MODIFIED SB CATALYSTS IN THE ELECTROOXIDATION OF ETHANOL, Milica G. Košević, Nebojša D. Nikolić, Jelena D. Lović

13. INFLUENCE OF THERMOMECHANICAL TREATMENT ON THE GRAIN STRUCTURE OF Al-Mg-Mn ALLOYS FOR SHEAR SPINNING APPLICATION, Ljubica Radović, Miljana Popović, Branka Jordović

14. INFLUENCE OF AN INCREASED HOPCALITE LAYER CONTENT IN THE ACTIVE FILLING ON THE SORPTION CHARACTERISTICS OF THE FILTER, Biljana Mihajlović, Tatjana Marković, Marina Ilić, Vukica Grković, Vlada Petrovic

15. EFFECT OF SiO₂ NANOPARTICLES ON THE MECHANICAL PROPERTIES OF POLYURETHANE THERMAL INSULATION LINERS, Sara Pepić, Jelena Gržetić, Olga Maraš, Veselin Živanović, Teodora Stančić

16. CAE SIMULATION OF THE HOT FORGING PROCESS FOR A MILITARY VEHICLE STEEL COMPONENT, Marko Delić, Nikola Kastratović, Vesna Mandić, Dušan Arsić, Nikola Komatina

17. OPTIMIZATION OF INTERFACIAL BONDING OF EPDM-BASED THERMAL INSULATION AND STEEL ROCKET MOTOR CASE-DEVELOPMENT OF THE SYSTEM OF ADHESIVE LAYER AND CEMENT, Olga Maraš, Sara Pepić, Jelena Gržetić, Petar Vasiljević

18. NUMERICAL ANALYSIS OF THE HOT FORGING PROCESS FOR A STEEL DEFENSE

INDUSTRY COMPONENT, Nikola Kastratović, Vesna Mandić, Marko Delić, Dušan Arsić, Nikola Komatina

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

Session 11

HALL 1

Friday, October 23th

11:30 - 13:30

Chairman: Srđan Živković

1. COMBINED APPLICATION OF FTA AND FMEA METHODS FOR FAILURE ANALYSIS OF TECHNICAL SYSTEMS, Dobrovoje Čatić, Vladimir Čatić

2. A QUALITY ASSURANCE FRAMEWORK FOR METAL ADDITIVE MANUFACTURING, Srdjan Živković, Slobodan Malbašić, Miloš Stepanović

3. ELECTRO-MECHANICAL FUZES FOR UAV LOITERING MUNITION WARHEADS: A LAYERED SAFETY AND STANDARDIZATION FRAMEWORK, Marinko Aleksić, Nikola Nikolić, Marija Borović, Dejan Marsenić, Danijela Kovač, Nemanja Vujović

4. EVALUATING THE EFFECTIVE PERFORMANCE OF THE PHASE NOISE MEASUREMENT SYSTEM, Neda Spasojević, Miša Markuš, Miloš Jovanović, Slobodan Subotić, Dragan Lazić

5. QUASI-DYNAMIC TESTING OF THE QUALITY OF TRACER COMPOSITION IN SMALL ARMS AMMUNITION, Boban Bogićević, Miroslav Pajčin, Ognjen Peković, Aleksandar Simonović

6. CFD-BASED NUMERICAL SIMULATION OF THERMAL PROCESSES AND AIRFLOW IN THE PASSENGER COMPARTMENT OF SPECIAL VEHICLE, Milica Ivanović, Snežana Mališić, Marija Baltić, Igor Stamenković

7. ACCURACY ASSESSMENT OF GROUND TARGET COORDINATES DETERMINED BY DIFFERENT ACQUISITION SYSTEMS, Srđan Stojaković, Siniša Drobnyak, Novak Roganović, Saša Bakrač

8. RADIOACTIVE WASTE AS A LONG TERM SECURITY CHALLENGE: PRINCIPLES OF PROTECTION AND RISK MANAGEMENT, Milica Ćurčić, Predrag Božović, Marija Janković

POSTER SECTION

Session 8

Hall, 1st floor

Thursday, October 22nd

19:00 - 20:00

1. MECHANICAL QUALIFICATION OF SINGLE SOURCE COMMERCIAL OFF THE SHELF (COTS) ASSEMBLIES FOR AEROSPACE AND DEFENCE ENVIRONMENTS, Konstantin Komatina

POSTER SECTION

Session 10

Hall, 1st floor

Friday, October 23th

09:00 - 11:00

1. VARIABILITY OF BALLISTIC TEST RESULTS AND THE RELIABILITY OF QUALITY ASSESSMENT OF PERSONAL BALLISTIC PROTECTION EQUIPMENT, Marko Milovanović, Siniša Gačić, Nikola Prodanović

2. INSPECTION OF THE PROPULSION SYSTEM OF THE AUXILIARY SHIP PBR-36 "ŠABAC", Enis Dauti, Dragan Trifković, Dušan Cincar

3. THE INFLUENCE OF ULTRASONIC CAVITATION ON THE SURFACE ROUGHNESS OF LASER-SINTERED MS1 STEEL, Pavle Ljubojević, Žarko Mišković, Tatjana Lazović

4. STANDARDIZATION AS A REGULATOR FOR THE USE OF ARTIFICIAL INTELLIGENCE IN FRAUD DETECTION, Igor Đorić, Snežana Zurovac

5. NOVEL STRATEGIC TRENDS IN WEAPON SYSTEM ACQUISITION, Nebojša Nikolić, Miloš Stojanović, Miroslav Mitrović

SECTION: YOUNG RESEARCHERS

Session 1

HALL 1

Thursday, October 22nd

09:00 - 10:30

Chairman: Damir Jerković

1. EXPERIMENTAL STUDY OF FRACTURED PROPELLANT INFLUENCE ON THE IMPULSE ROCKET MOTOR SAFETY, Katarina Nestorović, Saša Živković, Marina Simović – Pavlović, Veselin Živanović, Jelena Mojsilović, Darko Janković

2. DYNAMIC ANALYSIS OF 30 mm AUTOMATIC CANNON OPERATING MECHANISM, Nikola Radovanović, Aleksandar Kari, Milan Simonović, Marko Simonović

3. INTERNAL BALLISTIC DESIGN OF A 30 x 173 mm AUTOMATIC CANNON USING THE ANALYTIC METHOD, Marija Milovanović, Nikola Radovanović, Stefan Jovanović

4. CONCEPTUAL ANALYSIS OF A RADIAL HYDRAULIC MOTOR DRIVE FOR HEAVY DUTY MILITARY VEHICLES, Mihailo Đuković, Saša Milojević, Slobodan Savić, Milan Bukvić, Horia Abaitancei, Blaža Stojanović

5. SENSOR FUSION FOR DRONE CLASSIFICATION IN RADIO FREQUENCY DOMAIN, Darko Mikanović, Boban Sazdić-Jotić, Vasilija Joksimović

SECTION: YOUNG RESEARCHERS			
Session 2	HALL 1	Thursday, October 22 nd	14:30 - 17:00
Chairman: Mihael Bučko			

1. SIMULATION OF COMPLIANT ROBOTIC SYSTEM WITH A PARALLEL MECHANISM AND SCISSOR LIFT, Nemanja Tanasković, Damir Krklješ, Mihailo Lazarević

2. METHODS FOR IMPROVING MACHINE LEARNING MODELS FOR PREDICTING MULTI-HOLE PRESSURE PROBE CHARACTERISTICS, Ivana Petković, Snežana Zurovac, Dijana Damljanović, Ilija Nenadić

3. UAV DETECTION AND TRACKING IN VIDEO USING DEEP LEARNING, Lazar Velinov, Jovan Radivojević

4. INFLUENCE OF UNDERWING PAYLOAD ON THE FLIGHT PERFORMANCE OF A TACTICAL UAV, Branislav Ostojić, Miodrag Milenković-Babić, Aljoša Ljuboja, Ognjen Peković

5. SYSTEMATIC MODELING AND EXPERIMENTAL EVALUATION OF BLDC MOTOR-PROPELLER SYSTEMS IN MULTICOPTERS, Aljoša Ljuboja, Milenko Trifković, Branislav Ostojić, Toni Ivanov

6. METHOD AND SYSTEM FOR THROUGH-THE-WALL RADAR IMAGING, Mladen Živković

7. AUTOMATED IMAGE CAPTIONING WITH A RESNET-LSTM ENCODER-DECODER FOR DISTRIBUTED SURVEILLANCE SCENES, Anđa Denić, Snežana Zurovac, Ivana Petković

8. STOCHASTIC ERROR CHARACTERIZATION AND KALMAN FILTERING OF A MEMS GYROSCOPE BASED ON ALLAN VARRIANCE ANALYSIS, Adrijana Jovanović, Jelena Popović-Božović, Zoran Krstić

SECTION: YOUNG RESEARCHERS			
Session 9	HALL 1	Friday, October 23 th	09:00 - 11:00
Chairman: Rade Pavlović			

1. COMPARATIVE ANALYSIS OF DIFFERENT 3D PRINTED IGNITER CHARGES ON INTERIOR BALLISTIC PROPERTIES, Veselin Živanović, Jelena Mojsilović, Vera Joksimović, Jovana Mandić, Irina Ulanova, Marko Radisavljević

2. EXPLOATATION OF ARMAMENT & MILITARY EQUIPMENT- INTERACTION MAN AND TECHNOLOGY: ORGANIZATIONAL CULTURE AS THE FOUNDATION OF MILI-

TARY STANDARDS IN THE MODERN MILITARY PROFESSION, Lazar Bjelica, Srđan Živković

3. PLATE SPRING-BASED NEGATIVE STIFFNESS ROTARY MECHANISM FOR PASSIVE ENERGY BALANCING OF MORPHING WINGS, Mašan Vučinić, Toni Ivanov, Jelena Svorcan

4. COMPARATIVE ANALYSIS OF DIFFERENT SYSTEMS FOR PROJECTILE VELOCITY MEASUREMENT IN BALLISTIC TESTING, Aleksa Aničić, Nebojša Hristov, Lazar Blagojević, Miloš Jončić, Ilija Ljujić, Damir Jerković

5. INFLUENCE OF PROCESS PARAMETERS ON QUALITY OF LASER POWDER BED FUSION PRODUCED AL10SiMG PARTS, Aleksandar Ćitić, Vesna Lukić, Jovana Mandić, Marko Bojin, Aleksa Grubić, Miloš Stepanović, Živorad Jevtić

6. BEHAVIOR OF FLAT SAMPLES MADE OF S355 STRUCTURAL STEEL UNDER STATIC LOADING AND STRESS CONCENTRATION, Jovana Antić, Mileta Ristivojević, Aleksandar Dimić, Stefan Dikić, Ana Petrović, Saša Spasenić, Sreten Spasenić

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