"VASIL LEVSKI" NATIONAL MILITARY UNIVERSITY,
"ARTILLERY, AIR DEFENSE AND CIS" FACULTY, SHUMEN, BULGARIA
MILITARY TECHNICAL ACADEMY "FERDINAND I", ROMANIA
"HENRY COANDA" AIR FORCE ACADEMY, BRASOV, ROMANIA
WAR STUDIES UNIVERSITY, WARSAW, POLAND
MILITARY UNIVERSITY OF TECHNOLOGY, WARSAW, POLAND
"SPIRU HARET" UNIVERSITY BUCHAREST, ROMANIA,
POLISH AIR FORCE UNIVERSITY, DEMBLIN, POLAND
REZEKNE ACADEMY OF TECHNOLOGIES, REZEKNE, REPUBLIC OF LATVIA

ARTILLERY, AD AND CIS FACULTY

DEFENSE TECHNOLOGY FORUM 2025

AGENDA DEFENSE TECHNOLOGY FORUM 2025 SHUMEN SEPTEMBER 24–25, 2025

Shumen, Bulgaria

ORGANIZING COMMITTEE

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Defense Technology Forum Shumen 2025 Wednesday 24th September 2025	
08:30 - 10:00	Registration
10:00 – 10:30	Opening Ceremony / Artillery, Air Defense, Communication and Information Systems Faculty-Shumen Room 08211, Block 08, II floor
	Plenary Session 1:
	CPT. Asst. Prof. Eng. Florin-Marian DIRLOMAN, PhD
10:30 – 10:50	Octavian GRIGOROIU, Adrian-Nicolae ROTARIU, Cristian-Emil MOLDOVEANU, Dana Andreea Alexandra PÎRVOI, Mădălina- Gabriela BUTNARU, Octavian CHIRIAC
	Military Technical Academy "Ferdinand I", Bucharest, Romania
	Experimental and Computational Fluid Dynamics Simulations for Water Jet Propulsion using Explosive Energy Optimisation
	Plenary Session 2:
	Lt.Col. Bartosz BIERNACIK, PhD Eng.
10:50 – 11:20	War Studies University, Warsaw, Poland
	Artificial Intelligence in Military Decision Making Process&Threat or Opportunity
	Plenary Session 3:
	LtCol. Assoc. Prof. Linko Nikolov, PhD
11:20 – 11:40	Artillery, Air Defense, Communication and Information Systems Faculty, Shumen, National Military University "Vasil. Levski"
	Challenges for the cybersecurity education in the defence and security field
11:40– 12:10	Coffee Break
12:10– 12:20	Company exhibition - "Cloud hosting services from Max1 Cloud - Shumen"
12:20– 12:30	Company exhibition - from 8Cell
12:30– 13:40	Company exhibition - Telepol
12:40- 12:50	Company exhibition - Scientific Research Technological Institute
12:50-13:00	Company exhibition - Arsenal AD
13:00 – 14:00	Lunch Break – pre ordered only

14:00 – 15:00	International Scientific Conference – Workgroup Sessions: • Defense and Security - Section work • Weapons, Technologies, Logistics - Section work • Communication and Computer Technologies - Section work • Cybersecurity - • Geodesy - Section work • Social studies - Section work
15:00 – 15:15	Coffee Break
15:15 – 18:00	Section work
19:00	Official Dinner Grand Hotel Shumen- pub
	Thursday 25th September
09:00 – 13:00	Section work • Defense and Security • Weapons, Technologies, Logistics • Communication and Computer Technologies • Cybersecurity • Geodesy • Social studies
10:30 - 10:45	Coffee Break
10:45 – 13:00	Section work • Defense and Security • Weapons, Technologies, Logistics • Communication and Computer Technologies • Cybersecurity • Geodesy • Social studies
13:00 – 14:30	Lunch Break
14:30 – 17:30	Section work • Defense and Security • Weapons, Technologies, Logistics • Communication and Computer Technologies • Cybersecurity • Geodesy • Social studies
17:30	Closing Ceremony

WORKGROUP SESSION SECTION

DEFENSE AND SECURITY

Chairman: Col. Assoc. Prof. Stoyan N. Chanev, PhD Location: Room 08401, Block 08, IV floor

Wednesday 24th September 2025

14.00-14.20	1. DEFENCE FROM DRONES
	Radina Boteva Ivanova Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria,
<u>14.20-15.25</u>	Question and discussion
<u>14.25-15.55</u>	I HISTORY OF THE DEVELOPMENT OF ANTI-TANK GUIDED MISSILES
	2 CAUSES AND FACTORS FOR THE OCCURENCE OF WATER CONFLICT IN THE WORLD
	3 BASIC REQUIREMENTS FOR JET ARTILLERY IN MODERN OPERATIONS
	4 ARTILLERY AND AIRCRAFT BATTERIES HIT THE ENEMY IN A COUNTER-BATTERY FIGHT
	5 PROTECTION OF WATER RESOURCES DURING ARMED CONFLICT
	Veliko P. Petrov Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
<u>15.55-16.00</u>	Question and discussion
<u>16.00-16.20</u>	COLLECTIVE DEFENSE IN THE ERA OF EMERGING THREATS
	Viktor Danielov Popov, Kristian Krasimirov Hristov Artillery, Air Defense, Communication and Information Systems Faculty, Shumen, National Military University "Vasil. Levski"
<u>16.20-16.25</u>	Question and discussion
16.25-16.45	ALGORITHM FOR SERVICING REQUESTS FROM A MULTISENSOR SYSTEM
	Matey K. Kirov Department of Air Defense, Artillery, Air Defense and CIS Faculty at the Vasil Levski National Military University,, Shumen, Bulgaria
<u>16.45-16.50</u>	Question and discussion
16.50-16.55	THE ROLE OF DRONES IN THE WAR IN UKRAINE AND LESSONS FOR MODERN MILITARY STRATEGY

	GBAD unit, Pleven, Bulgaria
16.55-17.00	Question and discussion
17.00-17.20	RESEARCH AND SELECTION OF EXISTING METHODS AND FORMS FOR DESCRIPTION, ANALYSIS AND EVALUATION OF COMMAND AND CONTROL SYSTEMS
	Ivo G. Radulov Rakovski National Defence College, Defence Advanced Research Institute, 1504 Sofia, Bulgaria, 82 Evlogi i Hristo Georgievi Blvd
<u>17.20-17.25</u>	Question and discussion
17.25-17.45	LOSS OF RUSSIAN NAVAL SHIPS IN THE RUSSIAN-UKRAINIAN WAR: ANALYSIS OF CAUSES AND CONSEQUENCES
	Krasimir S. Angelov Faculty of Navigation, Nikola Vaptsarov Naval Academy, Varna, Bulgaria
17.45-17.50	Question and discussion
	Thursday 25th September
09.00-09.20	LEGAL AND REGULATORY FRAMEWORK IN THE FIELD OF CORPORATE SECURITY
	Desislava D. Georgieva
	Faculty of Technical Sciences, Shumen University Bishop Konstantin Preslavski, Shumen, Bulgaria
09.20-09.25	Question and discussion
09.25-10.25	1 OPPORTUNITIES FOR REMOTELY PILOTED AIRCRAFT SYSTEMS' EMPLOYMENT FOR COUNTER-BATTERY WARFARE
	2 EXPERIMENTAL RESEARCH OF THE POSSIBILITIES FOR INCREASING THE EFFECTIVENESS OF RECONNAISSANCE IN THE INTEREST OF COUNTER-BATTERY WARFARE USING UAVS.
	3 COUNTER-BATTERY WARFARE IN THE CONTEXT OF FIRE SUPPORT IN CONTEMPORARY LAND OPERATIONS
	Ivelin G. Katsev Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria, katsev.i@abv.bg
10.25-10.30	Question and discussion
10.30-10.45	Coffee Break
10.45-11.25	1 COMBAT FUNCTIONS AND KEY FACTORS FOR THE EFFECTIVENESS OF AMPHIBIOUS OPERATIONS IN THE CONDITIONS OF THE MODERN OPERATING ENVIRONMENT
	2 A NEW PARADIGM FOR AMPHIBIOUS OPERATIONS: A RISK

Ivaylo I. Hinov

ASSESSMENT ALGORITHM IN THE MULTI-DOMAIN ENVIRONMENT

	"G. S. Rakovski" National Defence College,"Command and Staff" Faculty , Department "Land Forces"
11.25-11.30	Question and discussion
11.30-11.50	METHODOLOGY FOR RESEARCHING INFORMATION SECURITY RISKS IN TECHNOLOGICAL SYSTEMS
	Hristo A. Desev National Military University "V. Levski", Artillery, "Air Defense and CIS" Faculty Shumen
11.50-11.55	Question and discussion
11.55-12.15	THE MILITARY LEADER AND ARTIFICIAL INTELLIGENCE
11.00 12.10	Kaloyan A. Iliev, Alexandra K. Vladova Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
12.15-12.20	Question and discussion
12.20-12.35	COUNTER-BATTERY WARFARE – A FACTOR FOR FIRE SUPERIORITY
	Kaloyan A. Iliev, Ivan K. Vladov Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
12.35-12.40	Question and discussion
12.40-12.55	UAV IN THE BATTLEFIELD
12110 12133	Linko Nikolov, Nikola Petrov, Vladislava Georgieva Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
12.55-13.00	Question and discussion
13.00-14.00	Lunch Break
14.00-14.20	THE EUROPEAN UNION AND MODERN STRATEGIC COMPETITION – DESIRE AND REALITY
	Stoyn Stoychev University of Library Studies and Information Technologies
14.20-14.25	Question and discussion
14.25-14.45	NEW OPPORTUNITIES FOR STRATEGIC DETERRENCE - CHALLENGES AND PROSPECTS
	Totko Simeonov Simeonov University of Library Studies and Information Technologies
14.45-14.50	Question and discussion
14.50-15.10	ROBUSTNESS AND RESILIENCE – FEASIBILITY IN MILITARY FIELD

Kalin V. Gradev

"G. S. Rakovski" National Defence College, "Command and Staff" Faculty, Department "Land Forces"

- 15.10-15.15 *Question and discussion*
- 15.15-15.55 I POSSIBILITIES FOR INTEGRATION OF UNMANNED AIRCRAFT SYSTEMS INTO ARTILLERY REGIMENT

2 SOME PROBLEMS IN THE BULGARIAN ARTILLERY AT THE BEGINNING OF THE 21ST CENTURY

Ivaylo Zh. Bozov

Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen

- 15.55-16.00 Question and discussion
- 16.00-16.20

 ANALYSIS OF THE PRINCIPLES OF RESPONSE AND PREVENTION OF EMERGENCIES ON THE TERRITORY OF THE REPUBLIC OF BULGARIA

Ivan K. Vladov

Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen

- 16.20-16.25 Question and discussion
- 16.25-16.45 SECURITY IN COMPLEX ORGANIZATIONAL SYSTEMS. HYBRID AND DYNAMIC THREATS

Tsvetelina I. Metodieva

Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 16.45-16.50 Question and discussion
- 16.50-17.05 ADAPTIVE AND INTELLIGENT MODELS IN THE CONTEXT OF ORGANIZATIONAL SECURITY

Yasen M. Vichkov, Yavor R. Luchanski Vanya H. Zarkova

Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 17.05-17.10 Question and discussion
- 17.10-11.25 HIGH-ENERGY LASERS: MODERN SOLUTIONS FOR AIR DEFENSE

Georgi Orlinov Georgiev

Air Defence Department, National Military University "Vasil Levski", Shumen, Bulgaria,

- 17.25-17.30 Question and discussion
 - 17.30 Departure

WORKGROUP SESSION SECTION

WEAPONS, TECHNOLOGIES, LOGISTICS

Chairman: Col. Eng. Assoc. Prof Conuy G. Conev, Ph.D.

Location: Room 08106, Block 8, floor I

Wednesday 24th September 2025

14.00-14.20	PYROTECHNIC COMPOSITIONS IN ILLUMINATING AIRBOMBS AND FLARE PARACHUTE TARGETS—COMPOSITION EXAMINATION AND APPLICATION
	Ivelina Ivanova Angelska NITI SHS Kazanlak, Bulgari
14.20-14.25	Question and discussion
14.25-14.45	DIGITAL AND INFORMATIC TOOLS FOR BALLISTICS EDUCATION
	Cristian-Emil Moldoveanu, Pamfil Şomoiag, Andrada-Livia Cîrneanu, Alin-Constantin Sava Military Technical Academy "Ferdinand I", Bucharest, Romania
14.45-14.50	Question and discussion
14.50-15.10	COMPARATIVE ANALYSIS OF SHAPED CHARGE AND WATER JETS: THE INFLUENCE OF SHOCK IMPEDANCE ON TARGET RESPONSE
	Dana Andreea Alexandra Pîrvoi, Liviu-Cristian Matache, Mădălina-Gabriela Butnaru, Florin-Marian Dîrloman, Pamfil Şomoiag Military Technical Academy "Ferdinand I", Bucharest, Romania
<u>15.10-15.15</u>	Question and discussion
<u>15.15-15.30</u>	Coffee Break
15.30-15.50	EXPERIMENTAL ASSESSMENT OF HANDGUN DYNAMICS UNDER DIFFERENT PROPELLANT CHARGES
	Laviniu Octavian Haller , George Dobrin, Mădălina-Gabriela Butnaru Military Technical Academy "Ferdinand I", Bucharest, Romania
<u>15.50-15.55</u>	Question and discussion
15.55-16.15	MANUFACTURING AND TESTING OF A SMALL SIZE EXPLOSIVE CHARGE USED TO PROPELL STEEL BALLS ARRANGED IN PLANAR DOUBLE LAYERS
	Alexandru Enache, Adrian-Nicolae Rotariu, Liviu-Cristian

Florin-Marian

Alexandra-Ioana Dan, Octavian Chiriac

Dîrloman,

Florina

	Military Technical Academy Ferdinana I , Bucharest, Romani a
<u>16.15-16.20</u>	Question and discussion
16.20-16.40	NEW BEGINNING WITH OLD PROBLEMS IN IMPLEMENTING A LOGISTICS INFORMATION SYSTEM
	Svetozar B. Botev Logistic Support Command Sofia, sitenaz@abv.bg
<u>16.40-16.45</u>	Question and discussion
16.45-17.15	1 UNCONVENTIONAL STORAGE STRATEGIES IN LOGISTICS
	2 OGISTICS STRATEGIES FOR ORGANIZING TRANSPORT AND WAREHOUSE ACTIVITIES
	Andrey I. Bogdanov, Krasimir G. Kalev Konstantin Preslavski University Of Shumen, Shumen 9712, 115 Universitetska Str National military university "V. Levski", Artilery, Air Defense And Communication Systems Faculty - Shumen,
<u>17.15-17.20</u>	Question and discussion
17.20-17.40	SYSTEM FOR PROCESSING PET WASTE WITH APPLICATION IN FDM TECHNOLOGIES
	Martin G. Dimitorov Faculty "Artillery, Airforce defense and CIS" faculty, National military university "Vasil Levski", Shumen, Bulgaria
17.40-17.45	Question and discussion
	Thursday 25th September
09.00-09.15	OPTIMISATION OF EXISTING MECHANICAL COMPONENTS THROUGH TOPOLOGICAL DESIGN AND REVERSE ENGINEERING
	Kristian Krasimirov Hristov, Viktor Danielov Popov Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
<u>09.15-09.20</u>	Question and discussion
09.20-09.35	SNIPER SYSTEMS - ROLE AND DEVELOPMENTS IN THE 21ST CENTURY
	Petya Nikolaeva Stefanova, Kristian Krasimirov Hristov, Kristiyan Hristov Kostadinov Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
09.35-09.40	Question and discussion
09.40-10.10	1 INVESTIGATION OF THE USE OF 3D-PRINTED MAGAZINES FOR THE "KALASHNIKOV" ASSAULT RIFLE AS AN ALTERNATIVE TO METALLIC

MODELS

2 MECHANISM OF BRITTLE FRACTURE OF METAL SHELLS AT CRYOGENIC TEMPERATURES

Miroslav Dimitrov

Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria

- 10.10-10.15 *Question and discussion*
- 10.15-10.30 *Coffee Break*
- 3D PRINTING IN THE MILITARY INDUSTRY THE FUTURE OF REPAIR AND PRODUCTION

Petya Nikolaeva Stefanova, Viktor Danielov Popov, Kristiyan Hristov Kostadinov

Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria

- 10.45-10.50 *Question and discussion*
- 10.50-11.05 ARE DRONES WITH OPTICAL FIBER SUPERIOR TO FOURTH-GENERATION ANTI-TANK MISSILE SYSTEMS

Atanas St. Atanasov

"G. S. Rakovski" National Defence College, "Command and Staff" Faculty, Department "Land Forces"

- 11.05-11.10 Question and discussion
- 11.10–11.25 RISK ASSESSMENT IN THE OPERATION OF BOILERS AND PRESSURE EQUIPMENT IN DOMESTIC AND INDUSTRIAL CONDITIONS

Aleksandra P. Docheva1, Daniel R. Denev2

Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria,

- 11.25-11.30 *Question and discussion*
- 11.30-11.35 INDUSTRIAL ENGINEERING AND LOGISTICS IN THE CONTEXT OF EDUCATION

Yordanka I. Yankova-Yordanova¹, Tsvetoslav S. Tsankov²

¹Faculty of Technical Sciences, Department of Engineering Logistics, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

²Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 11.35-11.40 *Question and discussion*
- 11.40-11.55 AUTOMATED PARKING SYSTEM WITH ARTIFICIAL INTELLIGENCE IN URBAN INFRASTRUCTURE WITH APPLICATION IN THE CITY OF

SHUMEN

Tsveta a. Zhekova¹, Tsvetoslav S. Tsankov²

¹Faculty of Architecture, Department of Architecture and Urban Planning, Varna Free University "Chernorizets Hrabar", Varna, Bulgaria

²Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 11.55-12.00 *Ouestion and discussion*
- 12.00-12.15 TECHNOLOGICAL DEVELOPMENT AND INNOVATIONS IN CONCEALED FIRING SYSTEMS FOR URBAN COMBAT

Zornitsa N. Mladenova-Angelova¹, Tsvetoslav S. Tsankov²

Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 12.15-12.20 *Question and discussion*
- 12.20-12.35 AUTONOMOUS VEHICLES IN DRIVER TRAINING AND TESTING

Silviya H. Nikolova, Tsvetoslav S. Tsankov

Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 12.35-12.40 *Question and discussion*
- 12.40-12.55 LONG-HAUL TRUCK WITH AI-BASED DRIVER ASSISTANCE SYSTEMS FOR EUROPEAN TRANSPORT CORRIDORS

Silviya H. Nikolova, Ekaterina M. Hristova

Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 12.55-13.00 *Question and discussion*
- 13.00-14.00 *Lunch Break*
- 14.00-14.15 LIGHTWEIGHT AND OPTIMIZED BOLT CARRIER GROUP IN THE KALASHNIKOV ASSAULT RIFLE

Hristo An. Hristov, Tsvetoslav S. Tsankov

Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 14.15-14.20 *Question and discussion*
- 14.20-14.50 I ASPECTS OF THE DEVELOPMENT OF MILITARY STRATEGIC CAPABILITIES IN THE BLACK SEA REGION

2 OPERATIONS ASSESSMENT

Danko D. Farazov

Rakovski National Defence College, Sofia, Bulgaria

14.50-14.55	Question and discussion
14.55-15.25	1 COMPARATIVE ANALYSIS OF THE VARIATION IN THE BALLISTIC CHARACTERISTICS OF 7.62×39 MM AND 7.62×54 MM AMMUNITION WITH MODIFIED PROJECTILE GEOMETRY DURING FLIGHT IN AIR
	2 TOLERANCES AND ASSEMBLIES IN CAD/CAM SYSTEMS
	Rosen N. Lazarov Department "Armament and technology for design", National Military University "Vasil Levski", Shumen, Bulgaria
15.25-15.30	Question and discussion
15.30-15.45	INNOVATIONS AND DIRECTIONS IN THE DEVELOPMENT OF AMMUNITION FOR UNMANNED COMBAT AERIAL VEHICLES
	Krasimir G. Kalev National military university "V. Levski", Artilery, Air Defense And Communication Systems Faculty – Shumen
<u>15.45-15.50</u>	Question and discussion
15.50-16.05	CIVIL-MILITARY INTERACTION: MILITARY AND CIVIL ASPECTS
	<i>Milen N. Kisiov</i> Rakovski National Defence College, Sofia, Bulgaria
16.05-16.20	Question and discussion
16.20-16.35	INFORMATION SYSTEMS FOR MANAGEMENT OF THE ACTIVITIES OF A LOGISTICS SYSTEM FOR STRATEGIC DATABASES
	Petar Petrov PhD student, Doctoral program: "Engineering Logistics" Shumen University "Episkop Konstantin Preslavski",
16.35-16.40	Question and discussion
16.40-17.10	<i>1 CAVITATION WEAR – DEFINITION, MECHANISM, AND NATURE OF MANIFESTATION</i>
	2 WEAPONRY RESEARCH: CONCEPTS AND METHODS
	Yana D. Dimitrova, Rosen N. Lazarov Artillery, Air Defense and CIS Faculty, "Vasil Levski" National Military University, Shumen, Bulgaria
<u>17.10-17.15</u>	Question and discussion
17.15-17.30	GUIDELINES FOR THE DEVELOPMENT OF EUROPEAN UNION POLICIES FOR PROTECTION OF THE RIGHTS OF CITIZENS WHO HAVE LEFT THEIR COUNTRY DUE TO MILITARY CONFLICT
	Georgi Ivanov Dzhurkov Defense Headquarters, Logistics Directorate, Republic of Bulgaria
<u>17.30-17.35</u>	Question and discussion
<u>17.35</u>	Departure

WORKGROUP SESSION SECTION

COMMUNICATION AND COMPUTER TECHNOLOGIES

Chairman: LtCol. Assoc. Prof. Krasimir Ognyanov Slavyanov, PhD

Location: Room 25106, Blok 25, floor I

Wednesday 24th September 2025

14.00-14.20 PERFORMANCE ANALYSIS OF HYBRID DESIGN AND CODING TECHNIQUES FOR ERROR REDUCTION IN MISSION-CRITICAL COMMUNICATION SYSTEMS

Stanimir H. Parvanov, Devan N. Dimitrov

Air Defense Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University "V. Levski", Shumen, Bulgaria

- 14.20-14.25 *Question and discussion*
- 14.25-14.45 MIRROR COMPONENT ANALYSIS ABOUT REREFLECTION BY SPREAD SURFACE

Vencislav M. Vasilev, Todor G. Peshev

Air Defense Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University "V. Levski", Shumen, Bulgaria

- <u>14.45-14.50</u> *Question and discussion*
- 14.50-15.10 ELECTRONIC NEUTRALIZERS FOR COUNTER UNMANNED AERIAL SYSTEMS

Deyan N. Dimitrov

Department of Air Defense, Artillery, Air Defense and CIS Faculty at the Vasil Levski National Military University,, Shumen, Bulgaria

- 15.10-15.15 *Question and discussion*
- <u>15.15-15.30</u> *Coffee Break*
- CONDITIONS FOR THE INDEPENDENT PERFORMANCE OF OPTIMAL SPATIOTEMPORAL SIGNAL PROCESSING WHEN DETECTING A USEFUL SIGNAL AGAINST THE BACKGROUND OF EXTERNAL INTERFERENCE

Ivan i. Iliev, Georgi A. Kozarev

Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria

15.50-15.55 Question and discussion

FORMATION DIRECTIVITY DIAGRAM BY METRIC RADAR 15.55-16.15 Georgi P. Iliev Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria 16.15-16.20 Question and discussion APPLICATION OF THE MONTE CARLO METHOD FOR PARTICLE 16.20-16.20 FILTERING AS A TECHNIQUE FOR TRACKING THE TRAJECTORY OF A SINGLE FLYING OBJECT Deyan A. Atanasov, Matey K. Kirov, Nikolay Z. Kulev Artillery, Air Defense Faculty, Vasil Levski National Military University, Shumen, Bulgaria **Question** and discussion 16.40-16.45 INTELLIGENT **SYSTEM REMOTE** CONTROL FOR **AND** 16.45-17.05 VISUALIZATION OF **MULTIMEDIA OBJECTS** THROUGH AUTOMATED NETWORK ARCHITECTURE Emili K. Dimitrova¹, Daniel R. Denev², Veselka Stoyanova³ ¹Faculty of Mathematics and Computer Science, Department of Computer Informatics. Konstantin Preslavsky University of Shumen, Shumen, Bulgaria ²Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria ³National Military University, Faculty of Artillery, AAD and KIS, Shumen, Bulgaria 17.05-17.10 Question and discussion INTELLIGENT GARAGE DOOR CONTROL SYSTEM VIA PLC WITH 17.10-17.30 **BUILT-IN SAFETY SENSORS** Aleks Ya. Danev, Daniel R. Denev Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria Question and discussion 17.30-17.35 **Thursday 25th September** OPTIMIZATION OF CONTROL IN SOFTWARE-DEFINED NETWORKS 09.00-09.20 THROUGH COMBINED MACHINE LEARNING MODELS Ekaterina M. Hristova, Ivaylo I. Petrov Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

Question and discussion

09.20-09.25

09.25-09.45 RESEARCHING THE PERFORMANCE OF SOFTWARE-DEFINED NETWORKS THROUGH THE APPLICATION OF HYBRID MODELS FOR PREDICTIVE ANALYSIS

Ekaterina M. Hristova1, Petar G. Sotirov2

Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 09.45-09.50 *Question and discussion*
- 09.50-10.10 TRENDING CLOUD-BASED SOLUTIONS

Damyan Enchev, Miroslav Cholakov

Max 1 Cloud

- 10.10-10.15 *Question and discussion*
- 10.15-10.35 STUDY OF THE POSSIBILITY OF USING A MISMATCHED FILTER IN THE PASSIVE RADAR RECEIVER

Yosif V. Yosifov

Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria

- 10.35-10.40 Question and discussion
- <u>10.40-11.00</u> *Coffee Break*
- 11.00-11.40 *I CONTEMPORARY TECHNOLOGIES FOR INTEGRATED NAVIGATION SYSTEMS IN UNMANNED AERIAL VEHICLES*
 - 2 NEURAL NETWORK APPLICATIONS IN KALMAN FILTER PROCESSING

Vladislav M. Genoff

Department "Computer Systems and Technologies", "Artillery, Air defense and CIS" Faculty, "Vasil Levski" National Military University, Shumen, Shumen, Bulgaria

- 11.40-11.45 Question and discussion
- 1 MODERN ARTIFICIAL INTELLIGENCE TECHNOLOGIES FOR RECOGNITION MILITARY OBJECTS IN OPTICAL IMAGES: A COMPUTER EXPERIMENT WITH NEURAL NETWORKS IN MATLAB.
 - 2 MODERN ARTIFICIAL INTELLIGENCE TECHNOLOGIES FOR DETECTION AND RECOGNITION OF PARTIALLY VISIBLE MILITARY OBJECTS IN OPTICAL IMAGES
 - 3 MODERN ARTIFICIAL INTELLIGENCE TECHNOLOGIES FOR DETECTING AND RECOGNIZING PARTIALLY VISIBLE OBJECTS WITH MILITARY PURPOSE IN OPTICAL IMAGES: A COMPUTER EXPERIMENT WITH TRANSFER LEARNING IN MATLAB

Lyubomir E. Manov

Department "Computer Systems and Technologies", "Artillery, Air defense and CIS" Faculty, "Vasil Levski" National Military University, Shumen, Shumen, Bulgaria

12.45-12.50	Question and discussion
12.50-13.10	NETWORK TOPOLOGY OF A SIMULATION TRAINING ENVIRONMENT FOR INDUSTRIAL CYBERSECURITY RESEARCH
	Krasimir O. Slavyanov Department "Computer systems and technologies", National Miliatry University "Vasil Levski", Shumen, Bulgaria
<u>13.10-13.55</u>	Question and discussion
13.55-14.15	CYBERSECURITY ASPECTS OF TECHNICAL INFRASTRUCTURE IN CLOSED CORPORATE NETWORKS NOT CONNECTED TO INTERNET
	Peter I. Radev, PhD Yavor Z. Dechev Department "Computer systems and technologies", National Miliatry University "Vasil Levski", Shumen, Bulgaria
14.15-14.20	Question and discussion
14.30	Departure

WORKGROUP SESSION

SECTION

CYBERSECURITY

Chairman: LtCol. Assoc. Prof. Linko Nikolov, PhD

Location: Room 08303, Blok 8, floor III

Wednesday 24th September 2025

14.00-15.00	1 SOCIAL ENGINEERING – REVEALING THE PSYCHOLOGY BEHIND CYBERATTACKS AND HOW TO PROTECT OURSELVES
	2 ADVANCED TECHNIQUES FOR DETECTING DDOS ATTACKS AND APPROACHES IN PREVENTIVE MITIGATION SYSTEMS
	3 METHODS AND MEANS FOR RECORDING, PRESERVING, AND PROTECTING CRITICAL INFORMATION
	Damyan Kushev, Vladimir Kostadinov, Daniel Mitich
	Artillery, Air Defense, Communication and Information Systems Faculty, Shumen, National Military University "Vasil. Levski"
<u>15.05-15.10</u>	Question and discussion
15.10-15.30	COMPUTER PROGRAM FOR CRYPTOGRAPHIC PROTECTION OF SENSITIVE INFORMATION OF A SMALL COMPANY USING KEY DISTRIBUTION VIA THE DIFFIE-HELLMAN PROTOCOL
	Julian D. Dimitrov, Vladislava S. Georgieva, Georgi O. Georgiev, Kristian K. Hristov
	Communication Networks and Systems Department, Artillery, Air Defense, Communication and Information Systems Faculty, National Military University "V. Levski", Shumen, Bulgaria
<u>15.30-15.35</u>	Question and discussion
<u>15.35-16.50</u>	Coffee Break
<u>15.50-16.10</u>	MODERN APPROACHES AND METHODS TO ANALYSIS AND PREVENTION OF MALICIOUS EMAILS USING MACHINE LEARNING AND AUTOMATION
	Petar Dimitrov, Tsvetelina Mateeva, Elena Karadzhova
	Artillery, Air Defense, Communication and Information Systems Faculty, Shumen, National Military University "Vasil. Levski"
<u>16.10-16.15</u>	Question and discussion
16.15-16.35	ALGORITHM FOR CYBER THREAT INTELLIGENCE UTILIZING THE MITRE ATT&CK FRAMEWORK

Computer Systems and Technologies Department, Vasil Levski

Radostin S. Dimov, Zhaneta N. Savova

	National Military University, Shumen, Bulgaria
16.35-16.40	Question and discussion
16.40-17.00	INTEGRATING ARTIFICIAL INTELLIGENCE FOR AUTONOMOUS TRAFFIC MANAGEMENT IN INDUSTRIAL NETWORKS AND AUTOMATION SYSTEMS
	Ilker A. Hatib, Daniel R. Denev
	Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria
<u>17.00-17.05</u>	Question and discussion
<u>17.05-17.25</u>	ARTIFICIAL INTELLIGENCE AND COMPUTER VISION FOR AUTONOMOUS VEHICLES AND ROAD SAFETY
	Aleksandar O. Uzunov¹, Galin P. Peychev²
	Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria
<u>17.25-17.30</u>	Question and discussion
<u>17.30-17.50</u>	PROTECTING UAVS AGAINST CYBER INTRUSIONS
	Nikolay K. Kolev
	Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
17.50-18.00	Question and discussion
	Thursday 25th September
09.00-09.20	OPPORTUNITIES AND SOLUTIONS FOR IMPROVING DOCUMENT FLOW IN THE BULGARIAN ARMY, BASED ON ARTIFICIAL INTELLIGENCE
	Stamen I Antonov *Mariela L Antonova **
	* National Military University "Vasil Levski", Artillery, AAD and CIS Faculty ** "Konstantin Preslavsky" University of Shumen
<u>09.20-09.25</u>	Question and discussion
09.25-09.45	MALICIOUS NETWORK TRAFFIC OPTIMIZATION VIA DNN-AUTOENCODERS
	Angela R. Borisova
	Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen
<u>09.45-09.50</u>	Question and discussion
<u>10.00</u>	Departure

WORKGROUP SESSION

SECTION

SOCIAL

Chairman: Col. Eng. Assoc. Prof. Milena H. Lambeva, Ph.D.

Location: Room 25105, Block 25, floor I

Wednesday 24th September 2025

14.00-14.30	NON-VERBAL COMMUNICATION – A MANIFESTATION OF POWER
11.00 11.50	Valya M. Simeonova
	Logistic Support Command Sofia
14.30-14.40	Question and discussion
14.40-14.50	GENERATIONS "X Y Z" – HOW TO TRAIN THEM
	Teodora Penkova Chalakova
	Ministry of Defence of the Republic of Bulgaria, Sofiq
<u>14.50-15.00</u>	Question and discussion
<u>15.00-15.10</u>	Coffee break
<u>15.10-15.40</u>	SUPPLY MANAGEMENT IN CRISIS CONDITIONS
	Petya Nikolaeva Stefanova, Kristian Krasimirov Hristov, Kristiyan Hristov Kostadinov
	Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
<u>15.40-15.50</u>	Question and discussion
15.50-16.20	MODELING A DECISION SUPPORT SYSTEM FOR EMPLOYEE SELECTION USING FUZZY LOGIC METHODS
	Elena Karadzhova, Petar Dimitrov, Nikoleta Pehlivanova
	Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
16.20-16.30 16.30-16.50	Question and discussion A GRAPH-BASED APPROACH FOR MODELING THE SPREAD OF FAKE NEWS
	Milena H. Lambeva
	Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
<u>16.50-17.00</u>	Question and discussion

Thursday 25th September

09.00-09.30

AUTOMATION AND CONSTRUCTION OF INFORMATION SYSTEMS FOR OPTIMIZATION OF SOCIO-PEDAGOGICAL ACTIVITIES

Stefaniya M. Chervenkova¹, Daniel R. Denev²

¹Faculty of Education, Department of Special and Social Pedagogy, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria,

²Faculty of Technical Sciences, Department of Communication and Computer Engineering and Security Technologies, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

<u>09.30-09.40</u> *Question and discussion*

09.40-10.10 THE VIRTUAL CADET

Viktor T. Dobrev

Department of Information Security, Faculty of Artillery, Air Defense and CIS, Vasil Levski National University of Science and Technology, Shumen, Bulgaria

- 10.10-10.20 *Question and discussion*
- <u>10.20-10.45</u> *Coffee break*
- 10.45-11.15 THE PAST AS RISK MEDIA, MEMORY, AND SECURITY IN THE BALKANS

Kaloyan K. Ganchev

Department of History and Archeology, Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

- 11.15-11.25 Question and discussion
- 11.25-11.55 DISCIPLINARY LIABILITY A COMPARATIVE LEGAL ANALYSIS OF CADETS, MILITARY PERSONNEL, AND STUDENTS.

Yanitsa Neynska

Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria

- 11.25-11.35 Question and discussion
- 11.35-12.05 PONEROGENESIS IN AN ARMY ENVIRONMENT

Victor Dobrev

Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria

- 12.05-12.15 Question and discussion
 - 12.30 Departure

WORKGROUP SESSION

SECTION

GEODESY

Chairman: Prof. Andrey Ivanov Andreev, DSc

Location: Room 39203, Blok 39 floor II

Wednesday 24th September 2025

	v 1
14.00-14.20	AN APPROACH FOR DETERMINING THE GEODETIC COORDINATES OF OBJECTS USING TWO UNMANNED AERIAL VEHICLES
	Monika B. Bedzheva NMU "Vasil Levski", Faculty of "Artillery, AD and CIS", Department "Geodesy", Shumen, Bulgaria
14.20-14.25	Question and discussion
14.25-14.45	STUDYING THE INFLUENCE OF LIGHT IN AERIAL PHOTOGRAMMETRY WITH DIGITAL CAMERA
	Marin R. Rusev, Alexandra P. Zidarova NMU "Vasil Levski", Faculty of "Artillery, AD and CIS", Department "Geodesy", Shumen, Bulgaria
<u>14.45-14.50</u>	Question and discussion
14.50-15.10	INTEGRATED TECHNIQUES FOR EARTH DEFORMATION ANALYSIS USING DINSAR AND GNSS
	Vesela R. Petrova, Evgeni Gr. Stoykov "Konstantin Preslavsky" University of Shumen, Faculty of Technical Sciences, Department of Geodesy
<u>15.10-15.15</u>	Question and discussion
<u>15.15-15.30</u>	Coffee Break
<u>15.30-15.50</u>	MAIN ASPECTS OF THE PHYSICAL AND GEOGRAPHICAL DESCRIPTION OF THE AREA AS A COMPONENT OF SITUATIONAL ASSESSMENT IN COMBAT OPERATIONS PLANNING
	Kateryna V. Kazhukalo, Natalia I. Lytvynenko Military Institute of Taras Schevchenko National University, Kyiv, Ukraine
<u>15.50-15.55</u>	Question and discussion
<u>15.55-16.15</u>	APPLICATION OF PHOTOGRAMMETRY AND REMOTE SENSING METHODS FOR IMAGE INTERPRETATION OF OPEN AREAS AND FORESTS STANDS IN FOREST TERITORIES
	Stanimira St. Stovanova

Stanimira St. Stoyanova

Department "Forest management and management", University of

	forestry, Sofia, Bulgaria
16.15-16.20	Question and discussion
16.20-16.40	INTEGRATION OF GEODESY AND ARTIFICIAL INTELLIGENCE FOR MONITORING AND ANALYSIS OF CLIMATE CHANGE AND NATURAL DISASTERS
	<i>Hristiyan G. Georgiev</i> Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria
<u>16.40-16.45</u>	Question and discussion
16.45-17.05	INTEGRATION OF GEODESY AND ARTIFICIAL INTELLIGENCE FOR CONSTRUCTION OF LARGE-SCALE STRUCTURES
	Daniel P. Draganov Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria
<u>17.05-17.10</u>	Question and discussion
17.10-17.30	INTEGRATION OF IOT TEHNOLOGIES AND GEODETIC NETWORKS FOR DEFORMATION MONITORING OF BUILDINGS AND CIVIL ENGINEERING STRUCTURES
	<i>Hristiyana H. Koleva</i> Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria
<u>17.30-17.35</u>	Question and discussion
	Thursday 25th September
09.00-09.25	Thursday 25th September METHODS FOR INVESTIGATING HORIZONTAL DEFORMATIONS
09.00-09.25	•
<u>09.00-09.25</u> <u>09.25-09.30</u>	METHODS FOR INVESTIGATING HORIZONTAL DEFORMATIONS Tsvetelina T. Mateeva, Vladimir M. Petrov
	METHODS FOR INVESTIGATING HORIZONTAL DEFORMATIONS **Tsvetelina T. Mateeva, Vladimir M. Petrov** Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria
<u>09.25-09.30</u>	METHODS FOR INVESTIGATING HORIZONTAL DEFORMATIONS *Tsvetelina T. Mateeva, Vladimir M. Petrov Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria *Question and discussion*
<u>09.25-09.30</u>	METHODS FOR INVESTIGATING HORIZONTAL DEFORMATIONS Tsvetelina T. Mateeva, Vladimir M. Petrov Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria Question and discussion GEODESY AND ITS IMPORTANCE FOR EVERYDAY SAFETY Mariya L. Tsendova
09.25-09.30 09.30-09.55	METHODS FOR INVESTIGATING HORIZONTAL DEFORMATIONS *Tsvetelina T. Mateeva, Vladimir M. Petrov* Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria *Question and discussion* GEODESY AND ITS IMPORTANCE FOR EVERYDAY SAFETY *Mariya L. Tsendova* Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria
09.25-09.30 09.30-09.55 09.55-10.00	METHODS FOR INVESTIGATING HORIZONTAL DEFORMATIONS Tsvetelina T. Mateeva, Vladimir M. Petrov Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria Question and discussion GEODESY AND ITS IMPORTANCE FOR EVERYDAY SAFETY Mariya L. Tsendova Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria Question and discussion HYDROGRAPHIC MEASUREMENTS IN THE BULGARIAN SECTION
09.25-09.30 09.30-09.55 09.55-10.00	METHODS FOR INVESTIGATING HORIZONTAL DEFORMATIONS Tsvetelina T. Mateeva, Vladimir M. Petrov Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria Question and discussion GEODESY AND ITS IMPORTANCE FOR EVERYDAY SAFETY Mariya L. Tsendova Department "Geodesy", NMU "Vasil Levski", Shumen, Bulgaria Question and discussion HYDROGRAPHIC MEASUREMENTS IN THE BULGARIAN SECTION OF THE DANUBE RIVER Tanislav H. Tanev Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen,

10.45-11.10	SURVEYING AND MAINTENANCE OF THE PRIMARY-CLASS POINTS OF THE STATE GPS NETWORK OF THE REPUBLIC OF BULGARIA
	Georgi H. Tanev Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria
<u>11.10-11.15</u>	Question and discussion
11.15-11.40	ON THE CREATION OF A GENERALIZED MODEL OF THE GEOID (QUASIGEOID) OF BULGARIA
	Andrey I Andreev ¹ , Petina A. Andreeva ¹ , Gergana A. Dimova ² ¹ Department Geodesy, Air Defense and Communication and Information Systems faculty - Shumen / NMU "Vasil Levsky" ² Department of Foreign Language Training - Shumen / NMU
11.40-11.45	Question and discussion
11.45-12.10	INVESTMENT DESIGN – PART "GEODESY", OF THE OBJECT: "REPAIR OF A CINEMA IN THE FACULTY OF "ARTILLERY, AIR DEFENSE AND AIRCRAFT" TOWN OF SHUMEN"
	Petina A. Andreeva, Hristina Rumenova Department Geodesy, Air Defense and Communication and Information Systems faculty - Shumen / NMU "Vasil Levsky"
12.10-12.15	Question and discussion
12.15-12.40	GEOINFORMATION TECHNOLOGY FOR MAKING CHANGES TO THE CADASTRAL MAP AND CADASTRAL REGISTERS WITH A CADASTRAL INFORMATION SYSTEM
	Petina A. Andreeva, Venelin Kozhuharov Department Geodesy, Air Defense and Communication and Information Systems faculty - Shumen / NMU "Vasil Levsky"
12.40-12.45	Question and discussion
12.45-14.00	Lunch Break
14.00-14.50	1 RISK MANAGEMENT FOR LANDSCAPES, COLLAPSES AND LANDSLIDES 2 FLOOD RISK MANAGEMENT 3 GENERAL PRINCIPLES APPLIED IN NATURAL DISASTER RISK MANAGEMENT
	Gergana A. Dimova Department of Foreign Language Training - Shumen / NMU "Vasil Levsky"
14.50-15.00	Question and discussion
15.00	Departure