

*“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
CROATIAN DEFENCE ACADEMY “DR. FRANJO TUĐMAN”, ZAGREB, CROATIA*

ARTILLERY, AD AND CIS FACULTY



DEFENSE TECHNOLOGY FORUM 2023

AGENDA

DEFENSE TECHNOLOGY FORUM 2023 SHUMEN

"75 YEARS OF ARTILLERY EDUCATION - SHUMEN"

September 25–29, 2023

Shumen, Bulgaria

ORGANIZING COMMITTEE

GENERAL CO-CHAIRS

- Brig. Gen. Eng. Ivan MALAMOV, Rector and Commandant of “Vasil Levski” National Military University, Bulgaria
- Brig. Gen. Prof. Eng. Iulian-Constantin VIZITIU, Ph.D, Rector and Commandant of Military Technical Academy ”Ferdinand I”, Romania
- Brig. Gen. Assoc. Prof. Marius ȘERBESZKI, Ph.D., Commandant - Rector of Air Force Academy, Romania
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- Brig. Gen. Pilot Krzysztof CUR, PhD, Eng., Commandant Rector of Polish Air Force University, Demblin, Poland
- Brig. Gen. Blaž BERETIN, PhD, Deputy Commandant of Croatian Defence Academy "Dr. Franjo Tuđman", Zagreb, Croatia”, Zagreb, Croatia

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- Col.(AF) Prof.Eng. Cristian-Emil MOLDOVEANU, PhD, Military Technical Academy “Ferdinand I”, Bucharest, Romania
- Col. Assoc. Prof. Eng. Laurian GHERMAN, PhD, “Henry Coanda” Air Force Academy, Brasov, Romania
- DSc. MUT Prof. Stanisław KACHEL, Military University of Technology, Poland
- Col. DSc. MUT Prof. Przemysław KUPIDURA, Military University of Technology, Poland
- Maj. Konrad WOJTOWICZ, PhD, Military University of Technology, Poland
- LTC Assoc. Prof. Tomasz CAŁKOWSKI, PhD, Vice Dean Military Faculty, War Studies University, Poland
- LTC Assoc. Prof. Eng. P. OSTOLSKI, PhD, War Studies University, Poland
- LTC Assoc. Prof. Eng. B. BIERNACIK, PhD, War Studies University, Poland
- Prof. Dr. Gheorghe DUDA, “Spiru Haret“ University, Romania
- Maj. Daniel MICHALSKI, PhD, of the Polish Air Force University, Demblin, Poland
- Col. Asst. Prof. Andrija KOZINA, PhD, Dean, of Croatian Defence Academy "Dr. Franjo Tuđman", Zagreb, Croatia

PROGRAM COMMITTEE

CHAIR

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- LTC Cristian ENE, “Henry Coanda” Air Force Academy, Romania
- Col. DSc. Prof. Zbigniew LECIEJEWSKI, Military University
of Technology, Poland

DTF 2023 - Shumen 25 September 2023	
13:00 - 14:30	Opening Ceremony in Celebration of "75 Years of Artillery Education - Shumen"
14:30 - 17:00	Festive Concert on the Occasion of "75 Years of Artillery Education - Shumen"
DTF 2023 - Shumen 26 September 2023	
09:00 - 09:45	Conference Registration - at the hotel "SHUMEN"
10:00 - 10:30	Conference Opening Ceremony
10:30 - 11:15	<p>Plenary Session 1:</p> <p>LTC Eng. Liviu-Cristian MATAACHE PhD</p> <p>Andrada Runceanu, Liviu Matache, Adrian Rotariu, Mihai Ungureanu, Razvan Mircioaga, Pamfil Somoia</p> <p>Faculty of Integrated Armament Systems, Military Engineering and Mechatronics, Military Technical Academy „Ferdinand I”, Bucharest, Romania</p> <p><i>Study of the Thermobaric Compositions Performances and their Applications</i></p>
11:15 – 11:30	Coffee Break
11:30 – 13:00	<p>Plenary Session – 2:</p> <p>Lt. Col. Eng. Bartosz BIERNACIK, PhD</p> <p>War Studies University, Poland</p> <p><i>Creation of common understanding of tactical situation whit use of command support systems</i></p> <p>Eugen ZAHARESCU</p> <p>Spiru Haret University of Bucharest, Engineering and Informatics Faculty of Bucharest, Romania</p> <p><i>Enhanced Security of for Mobile Instant Messaging Systems Using Applied Cryptography</i></p>
13:00 - 14:30	Lunch Break
14:30 - 17:30	<p>International Scientific Conference – Workgroup Sessions:</p> <ul style="list-style-type: none"> • Defense and Security • Weapons, Technologies, Logistics • Communication and Computer Technologies • Cybersecurity • Geodesy • Social studies
19:00 - 23:00	Official Dinner

DTF 2023 - Shumen
27 September 2023

09:00 - 13:00	International Scientific Conference – Workgroup Sessions: <ul style="list-style-type: none">• Defense and Security• Weapons, Technologies, Logistics• Communication and Computer Technologies• Cybersecurity• Geodesy• Social studies
13:00 - 14:30	Lunch Break
14:30 - 16:30	Seminar on National Scientific Program "Security and Defense"

DTF 2023 - Shumen
28 September 2023

08:30 - 10:00	Transportation to the Firing Field
10:00 - 12:00	Field Artillery Shooting Demonstration
12:00 - 13:00	Transportation from the Firing Field
13:00 - 14:30	Lunch Break
14:30 - 15:30	International Scientific Conference – Workgroup Sessions: <ul style="list-style-type: none">• Defense and Security• Weapons, Technologies, Logistics• Communication and Computer Technologies• Cybersecurity• Geodesy• Social studies
15:30 - 17:30	Exhibition and Presentation of Security and Defense Products

DTF 2023 - Shumen
29 September 2023

09:00 - 12:00	International Scientific Conference – Workgroup Sessions: <ul style="list-style-type: none">• Defense and Security• Weapons, Technologies, Logistics• Communication and Computer Technologies• Cybersecurity• Geodesy• Social studies
12:00 - 12:30	Closing Ceremony

WORKGROUP SESSION
SECTION
DEFENSE AND SECURITY

Chairman: Col. Eng. Assoc. Prof. Atanas L. Atanasov, PhD

Location: Room 08106, Block 08, I floor

26 September 2023

- 14.30-14.50 ***Maxim M. Alashki Angel D. Valchev - Ministry of Defence, Armaments Policy Directorate***
DECISION MAKING IN THE NATIONAL SECURITY: LEVELS OF COMMAND AND CONTROL
- 14.50-15.00 *Question and discussion*
- 15.10-15.30 ***Maxim M. Alashki - Ministry of Defence, Armaments Policy Directorate***
DECISION MAKING IN THE NATIONAL SECURITY: GOVERNANCE, COMMAND, MANAGEMENT, LEADERSHIP
- 15.30-15.40 *Question and discussion*
- 15.40-16.00 ***Yalchyn I. Rasim – Енерго-Про София***
ANALYSIS OF THE RESULTS OF A SURVEY CONCERNING THE SATISFACTION OF VICTIMS AND PARTICIPANTS IN THE EMERGENCY RESTORATION WORKS AFTER THE EXPLOSION IN THE VILLAGE OF HITRINO
- 16.00-16.10 *Question and discussion*
- 16.10-16.30 ***Ivo Radulov, Teodora Georgieva - Rakovski National Defence College, Defence Advanced Research Institute, Sofia***
MODEL OF METHODOLOGY FOR FUNCTIONAL ANALYSIS OF THE COMMAND AND CONTROL SYSTEM (C2)
- 16.00-16.20 Coffee break
- 16.20-16.50 ***Veliko P. Petrov - Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria,***
1. COUNTERBATTERY COMBAT IN MODERN OPERATIONS
2. FEATURES OF THE COMBAT USE OF ARTILLERY FORMATIONS WHEN CONDUCTING OPERATIONS FOR URBANIZED TERRITORIES
- 16.50-17.00 *Question and discussion*
- 17.00-17.20 ***Ivo Radulov, - Rakovski National Defence College, Defence Advanced Research Institute, Sofia***
STRATEGIC DEFENCE REVIEW LESSONS LEARNED ANALYSIS FOR COMMAND AND CONTROL (C2)
- 17.20-17.30 *Question and discussion*

27 September 2023

- 09.00-09.20 **Georgi B. Georgiev - II degree military district – Shumen, town of Shumen, Republic of Bulgaria,**
THE ROLE OF THE GREAT SHUMEN MANEUVERS IN THE DECLARATION OF WAR IN 1912
- 09.20-09.30 *Question and discussion*
- 09.30-09.50 **Vladislav Savov - Konstantin Preslavsky University of Shumen**
DEVELOPMENT, FUNCTIONS AND TASKS OF THE MILITARY POLICE OF THE REPUBLIC OF BULGARIA – MILITARY POLICE DOCTRINE
- 09.50-10.00 *Question and discussion*
- 10.00-10.20 **Zhivko St. Yordanov - Department NAVY, “G. S. Rakovsky” Military academy, Sofia, Bulgaria**
EXECUTIVE AND DISPOSAL ACTIVITY PERFORMED BY THE ARMED FORCES. CONCEPT AND MAIN CHARACTERISTICS
- 10.20-10.30 *Question and discussion*
- 10.30-10.50 Coffee break
- 10.50-11.10 **Anastas M.Chitakov Hristo Dessev - National Military University “V. Levski”, Artillery, “Air Defense and CIS” Faculty Shumen**
SECURITY PERSPECTIVES AND TRENDS IN THE BLACK SEA REGION
- 11.10-11.20 *Question and discussion*
- 11.20-11.40 **Anastas M.Chitakov - National Military University “V. Levski”, Artillery, “Air Defense and CIS” Faculty Shumen**
ANALYSIS OF CRISES IN BLACK SEA REGION AND THE RESULTING THREATS AND RISKS TO INTERNATIONAL AND NATIONAL SECURITY
- 11.40-11.50 *Question and discussion*
- 11.50-12.10 **Hristo A. Desev - National Military University “V. Levski”, Artillery, “Air Defense and CIS” Faculty Shumen**
SECURITY MANAGEMENT SYSTEM IN THE TECHNOSPHERE
- 12.10-12.30 *Question and discussion*
- 12.30-12.50 **Nayden Naydenov - Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria**
THE FORGOTTEN HEROES OF THE FIRST WORLD WAR – PAUN BANANOV
- 12.50-13.00 *Question and discussion*

28 September 2023

14.30-15.00

Veliko P. Petrov - Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria,

1. CRITERIA FOR CLASSIFICATION OF OBJECTS (TARGETS) TO BE DESTROYED IN
2. CHALLENGES AND THREATS TO GLOBAL FOOD SECURITY IN CONFLICT
3. NATURE OF THE GLOBAL FOOD PROBLEM AND THE FORMS OF ITS MANIFESTATION

15.00-15.10

Question and discussion

WORKGROUP SESSION SECTION

WEAPONS, TECHNOLOGIES, LOGISTICS

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

Location: Room 08108, Block 8, floor I

26 September 2023

- 14.30-14.50 *Mariela Lyubcheva Ivanova - Konstantin Preslavsky University of Shumen, Shumen, Bulgaria*
PRODUCT TEMPLATES APPLIED IN CAD MODELING
- 14.50-15.00 *Question and discussion*
- 15.00-15.20 *Stamen Iliev Antonov Conuy G. Conev - National Military University "Vasil Levski", Veliko Tarnovo, Faculty "Artilleryq AD and CIS", Shumen, Bulgaria*
HARDWARE TECHNOLOGIES AND MATERIALS FOR PHYSICAL PROTOTYPING
- 15.20-15.30 *Question and discussion*
- 15.30-15.50 *Stamen Iliev Antonov - National Military University "Vasil Levski", Veliko Tarnovo, Faculty "Artilleryq AD and CIS", Shumen, Bulgaria*
SOME PECULIARITIES OF THE WORKING PROCESS OF 3D PRINTERS AND THE SOFTWARE TO SUPPORT THEM
- 15.50-16.00 *Question and discussion*
- 16.00-16.20 Coffee break
- 16.20-16.40 *Neculai-Daniel Zvîncu, Stefania-Melania Bardac, Pamfil Somoiaq, Florin-Marian Dîrloman, Mihai-ionuț Ungureanu, Costin-Dumitru Berechet - Faculty of Integrated Armament Systems, Military Engineering and Mechatronics, Military Technical Academy „Ferdinand I”, Bucharest, Romania*
THEORETICAL ASSESMENT OF FACTORS INFLUENCING ARTILLERY FIRE ACCURACY
- 16.40-16.50 *Question and discussion*

27 September 2023

- 09.00-09.20 *Neculai-Daniel Zvîncu, Teodora Chiojdoiu, Cristian-Emil Moldoveanu, Florin-Marian Dîrloman, Mihai-Ionuț Ungureanu, Costin-Dumitru Berechet - Faculty of Integrated Armament Systems, Military Engineering and Mechatronics, Military Technical Academy „Ferdinand I”,*

Bucharest, Romania

AERODYNAMICS AND BALLISTICS OF SMALL CALIBER WEAP-ONS FIRING

09.20-09.30

Question and discussion

09.30-09.50

Ivaylo Zh. Bozov - Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria

UNMANNED COMBAT AERIAL VEHICLE (UCAV) – WEAPON OF THE FUTURE

09.50-10.00

Question and discussion

10.00-10.20

Stamen Iliev Antonov, Conyu Grigorov Conev - National Military University “Vasil Levski”, Veliko Tarnovo, Faculty “Artilleryq AD and CIS”, Shumen, Bulgaria

PERSPECTIVES CONECTED WITH STUDENT EDUCATION WITH 3D COMPONENT VISUALIZATION

10.20-10.30

Question and discussion

10.30-10.50

Coffee break

10.50-11.10

Małgorzata Orłowska - War Studies University, al. Gen. Chruściela – Montera 103, 00-910 Warsaw, Poland

SAP ERP AS A TOOL SUPPORTING THE MANAGEMENT OF LOGISTICS PROCESSESIN A MILITARY

11.10-11.20

Question and discussion

11.20-11.40

Michał Wilk - War Studies University,al. Gen. Chruściela – Montera 103, 00-910 Warsaw, Poland

OPTIMIZATION OF THE MILITARY LOGISTICS SYSTEM BY APPLICATION OF NATO F-34 FUEL

11.40-11.50

Question and discussion

11.50-12.10

Stamen I. Antonov, Ivaylo Zh. Bozov- National Military University “Vasil Levski”, Veliko Tarnovo, Faculty “Artilleryq AD and CIS”, Shumen, Bulgaria

ARTIFICIAL INTELLIGENCE IN AUTOMATED DESIGN AND ENGINEERING SYSTEMS (CAD CAM CAE SYSTEMS)

12.10-12.20

Question and discussion

12.20-12.45

Toni B. Borisov, Dimitar I. Raev - Departament of Armament and Computer Aided Design, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”, Shumen, Bulgaria

ANALISYS AND PERSPECTIVE ON UNMANNED AERIAL SYSTEMS FOR RECONNAISSANCE AND MILITARY OPERATIONS

12.45-13.00

Question and discussion

28 September 2023

- 14.30-14.50 **Vanko V. Ganev, Rosen N. Lazarov, Blagovest I. Bankov-
Departament of “Armament and technology for design”, Artillery,
Air Defense Communication and Information Systems Faculty,
National Military University „V. Levski”, Shumen, Bulgaria**
APPROACH FOR DETERMINING THE BALLISTIC CHARACTERISTICS
OF THE AMMUNITION
- 14.50-15.00 *Question and discussion*
- 15.00 – 15.20 **Yana D. Dimitrova - Faculty of Artillery, Air Defense and
Communication and Information Systems, National Military
University „Vasil Levski”, Shumen, Bulgaria**
ANALYTICAL METHOD FOR DETERMINE HIT POINT COORDINATES
IN HORIZONTAL PLANE DEPENDING ON PROJECTILE ANGULAR
VELOCITY
- 15.20-15.30 *Question and discussion*

29 September 2023

- 09.00-09.20 **Vanko Ganev, Rosen Lazarov, Yana Dimitrova, Blagovest Bankov -
Faculty of Artillery, Air Defense and Communication and
Information Systems, National Military University „Vasil Levski”,
Shumen, Bulgaria**
POLYGON TESTS OF THE CHANGE OF THE BALLISTIC
CHARACTERISTICS OF AMMUNITION WITH A CHANGED BULLET
SHAPE WHEN IT ENCOUNTERS WITH AN ENVIRONMENT OF
DIFFERENT DENSITY
- 09.20-09.30 *Question and discussion*
- 09.30-09.50 **Miroslav Dimitrov, Conyu Conev - National Military University
“Vasil Levski”, Artillery, AAD and CIS Faculty**
ANALISYS OF INNOVATIVE BALLISTIC PROTECTION MATERIALS
AND TECHNOLOGIES
- 09.50-10.00 *Question and discussion*

WORKGROUP SESSION SECTION

COMMUNICATION AND COMPUTER TECHNOLOGIES

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

Location: Room 25106, Blok 25, floor I

26 September 2023

- 14.30-14.50 *Delyan S. Slavov - Foreign languages department, National military university, Shumen, Bulgaria*
THE ROLE AND FUTURE OF AI IN EDUCATION
- 14.50-15.00 *Question and discussion*
- 15.00-15.20 *Delyan S. Slavov - Foreign languages department, National military university, Shumen, Bulgaria*
CYBER ASPECTS OF THE MODERN CONFLICTS (RUSSIA- UKRAINE)
- 15.20-15.30 *Question and discussion*
- 15.30-15.50 Coffee break
- 15.50-16.10 *Miroslav G. Nedelchev, Dimitar I. Raev - Computer Systems and Technologies Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”, Shumen, Bulgaria*
ANALYSIS OF CURRENT STANDARDS FOR MOBILE CELLULAR COMMUNICATION
- 16.10-16.20 *Question and discussion*
- Dawid Orłowski - War Studies University, al. Gen. Chruściela – Montera 103, 00-910 Warsaw, Poland*
SUPPORTING MILITARY UNIT MANAGEMENT PROCESSES THROUGH THE USE OF NEW TECHNOLOGIES - SELECTED EXAMPLES
- 16.20-16.30 *Question and discussion*

27 September 2023

- 09.00-09.30 *Rosen A. Bogdanov, Zaneta N. Savova - National Military University “Vasil Levski”, Artillery, AAD and CIS Faculty*
TECHNOLOGIES FOR PROTECTION AGAINST DDISINFORMATION IN ELECTRONIC COMMUNICATION CHANNELS
- 09.30-09.40 *Question and discussion*
- 09.40-10.00 Coffee break

10.00-10.30 ***Stanimir H. Parvanov, Georgi A. Kozarev - Communication Networks and Systems Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”, Shumen, Bulgaria***

RESEARCH OF LOW - PROFILE PRINTED 77-GHZ ANTI-COLLISION RADAR ANTENNAS IMPLEMENTED IN SMART VEHICLES

10.30-10.40 *Question and discussion*

10.40-11.10 ***Stanimir H. Parvanov, Georgi A. Kozarev - Communication Networks and Systems Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”, Shumen, Bulgaria***

TYPES OF METHODS AND THEIR COMPATIBLE USE IN LOCATING THE SMARTPHONES IN RURAL AND URBAN AREAS

11.10-11.20 *Question and discussion*

11.20-12.00 ***Borislav B. Bedzhev, Dilyan I. Dimitrov - Communication Networks and Systems Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University “V. Levski”, Shumen, Bulgaria***

APPLICATION OF QUASI COMPLEMENTARY PAIRS OF PHASE MANIPULATED SIGNALS IN RADIO-COMMUNICATION SYSTEMS

12.00-12.10 *Question and discussion*

28 September 2023

14.30-14.50 ***Stanimir H. Parvanov - Communication Networks and Systems Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”, Shumen, Bulgaria***

RESEARCH ON HIERARCHICAL GROUPS OF DRONES TO SEARCH AREAS AND FIND OR STRIKE SPECIFIC TARGETS

14.50-15.00 *Question and discussion*

15.00-15.20 ***Dimitar I. Raev, Toni B. Borisov - Department of Computer Systems and Technologies, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”, Shumen, Bulgaria***

CLOUD TECHNOLOGIES – DEVELOPMENT AND APPLICATION FOR THE INDUSTRY AND EDUCATION

15.20-15.30 *Question and discussion*

29 September 2023

11.00-11.20 *Vladislav M. Genoff, Lyubomir E. Manov - Department “Communication and computer technologies”, “Vasil Levski” National Military University, “Artillery, Air defense and CIS” Faculty, Shumen, Shumen, Bulgaria*

EXPERIMENTAL EVALUATION OF THE APPLICABILITY OF LOW-BUDGET NON-PROFESSIONAL LASERS FOR BLINDING DRONES AT RANGES OVER 3 KM

11.20-11.30 *Question and discussion*

11.30-11.50 *Lyubomir E. Manov - Department “Communication and computer technologies”, “Vasil Levski” National Military University, “Artillery, Air defense and CIS” Faculty, Shumen, Shumen, Bulgaria*

DETECTION AND RECOGNITION OF PARTIALLY VISIBLE OBJECTS IN OPTICAL IMAGES USING ARTIFICIAL INTELLIGENCE TECHNIQUES - MINI REVIEW

11.50-12.00 *Question and discussion*

WORKGROUP SESSION
SECTION
CYBERSECURITY

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

Location: Room 25109, Blok 25, floor I

26 September 2023

14.30-14.45 *Aleksandra K. Atanasova - Faculty of Artillery, Air Defense and Communication and Information Systems, National Military University, Shumen, Bulgaria*
DEVELOPMENT OF AUTONOMOUS DRONES WITH ARTIFICIAL INTELLIGENCE

14.50-15.55 *Question and discussion*

15.55-16.00 *Marius Iulian Mihailescu - Faculty of Engineering and informatics "Spiru Haret" University*

GOING THROUGH CYBER LANDSCAPE: THE EVOLUTION OF THREATS AND COUNTERMEASURES IN SOFTWARE SECURITY

16.00-16.05 *Question and discussion*

16.05-16.25 Coffee break

16.25-16.45 *Marius Iulian Mihailescu - Faculty of Engineering and informatics "Spiru Haret" University*

PROVIDING SECURITY FOR INTERCONNECTED DEVICES AND DATA EXCHANGES IN THE IOT-BLOCKCHAIN ECOSYSTEM

16.45-17.00 *Question and discussion*

Robert Zakrzewski - War Studies University, al. Gen. Chruściela – Montera 103, 00-910 Warsaw, Poland

CYBERSECURITY IN CRISIS MANAGEMENT

17.00-17.10 *Question and discussion*

27 September 2023

09.00-09.15 *Linko G. Nikolov - Artillery, Air Defense Communication and Information Systems Faculty, National Military University "V. Levski", Shumen, Bulgaria*

NETWORK TRAFFIC INVESTIGATION IN TERMS OF CYBERSECURITY

09.15-09.20 *Question and discussion*

- 09.20-09.35 **Angela R. Borisova - Artillery, Air Defense Communication and Information Systems Faculty, National Military University "V. Levski", Shumen, Bulgaria**
NEURAL NETWORKS FOR CYBERSECURITY
- 09.35-09.40 *Question and discussion*
- 09.40-10.00 Coffee break
- 10.00-10.15 **Dilyan I. Dimitrov - Communication Networks and Systems Department, Artillery, Air Defense Communication and Information Systems Faculty, National Military University "V. Levski", Shumen, Bulgaria**
ABILITIES FOR INCREASING THE ELECTRONIC PROTECTION OF RADAR SENSOR NETWORKS BY USAGE OF MATRIX SIGNALS
- 10.15-10.20 *Question and discussion*
- 10.20-10.35 **Toni B. Borisov, Dimitar I. Raev - Department of Armament and Computer-Aided Design, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”, Shumen, Bulgaria**
DEFENSE CYBERSECURITY
- 10.35-10.40 *Question and discussion*
- 10.40-10.55 **Dimitar I. Raev, Toni B. Borisov - Department of Armament and Computer-Aided Design, Artillery, Air Defense Communication and Information Systems Faculty, National Military University „V. Levski”, Shumen, Bulgaria**
THE ROLE OF THE USE OF VPN TECHNOLOGIES IN MILITARY OPERATIONS
- 10.55-11.00 *Question and discussion*

WORKGROUP SESSION
SECTION
SOCIAL STUDIES

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

Location: Room 25105, Block 25, floor I

26 September 2023

14.30-15.00 ***Mariela Lyubcheva Ivanova - Konstantin Preslavsky University of Shumen, Shumen, Bulgaria***

1. ASSESSMENT OF THE SOCIAL ENVIRONMENT IN EDUCATIONAL
2. DECISION MAKING UNDER STRESS IN EDUCATIONAL SETTING

15.00-15.10 *Question and discussion*

15.10-15.40 ***Valya Simeonova - Logistics Support Command, Sofia, Republic of Bulgaria***

THE POWER OF WORDS - CHALLENGES FOR MILITARY PR (THE "BE A SOLDIER" CAMPAIGN)

15.40-15.50 *Question and discussion*

15.50-16.10 Coffee break

16.10-16.40 ***Zarko I. Zrawkow, Anelia A. Atipova, Sevdalin H. Stoykov - DARI, Rakovski National Defence College, Sofia, Bulgaria***

BUILDING COMPETENCES FOR QUALITY MANAGEMENT IN THE RAKOVSKI NATIONAL DEFENCE COLLEGE

16.40-16.50 *Question and discussion*

27 September 2023

09.00-09.30 ***Barbara Drapikowska - War Studies University al. Gen. Chruściela – Montera 103, 00-910 Warsaw, Poland***

PARTICIPATION OF WOMEN IN MISSIONS AND OPERATIONS ABROAD ON THE EXAMPLE OF PCM

09.30-09.40 *Question and discussion*

09.40-10.10 ***Gloria Zasheva - National Military University "V. Levski", Artillery, "Air Defense and CIS" Faculty Shumen***

THE INFLUENCE OF FINE DUST PARTICLES ON RESPIRATORY PROCESSES FROM ACTIVITIES CARRIED OUT BY INDUSTRIAL ORGANISATIONS ON THE TERRITORY OF THE REPUBLIC OF BULGARIA - CIVIL SECURITY

10.10-10.20 *Question and discussion*

10.20-10.40 Coffee break

10.40-10.50 ***Milena H. Lambeva - Faculty of Artillery, Air Defense and
Communication and Information Systems,
National Military University, Shumen, Bulgaria***
GRAPH BASED SOCIAL NETWORK ANALYSIS TOOLS

WORKGROUP SESSION

SECTION

GEODESY

Chairman: Prof. Andrey Ivanov Andreev, DSc

Location: Room 39301, Blok 39

26 September 2023

14.30-15.10 ***Petina A. Andreeva, Gergana A. Dimova - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / "Vasil Levsky" National Military University***

ON THE TYPE OF DATA USED IN GEOINFORMATION TECHNOLOGIES.

PECULIARITIES IN THE TRAINING OF CADETS IN THE DISCIPLINE "CADASTRAL INFORMATION SYSTEMS".

15.10-15.20 *Question and discussion*

15.20-15.40 ***Andreev, I. Ivanova - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / "Vasil Levsky" National Military University***

SOME PECULIARITIES OF THE VERTICAL LEVELLING OF THE ADJACENT AREAS OF "V. LEVSKI" VELIKO TARNOVO REGION EDUCATIONAL BUILDINGS

15.40-15.50 *Question and discussion*

15.50-16.10 Coffee break

16.10-16.50 ***Yasen T. Prokopov - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / "Vasil Levsky" National Military University***

THE STABILITY OF THE BOARDS – A MAJOR PROBLEM IN MINING OPERATIONS IN OPEN PITS.

EARTHQUAKES AS A RESULT OF THE MOVEMENT OF THE EARTH'S CRUST AND THE ROLE OF GEODYNAMIC TRAVERSES IN THEIR PREDICTION.

16.50-17.00 *Question and discussion*

17.00-17.20 ***Nikolay Kopanov, Radostin Georgiev, Emil Monovski - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / “Vasil Levsky” National Military University***

1. GEODETIC WORKS WHEN SURVEYING A MEMORIAL MONUMENT AND CHAPEL, PARKING LOT AND PHOTOVOLTAIC SYSTEMS FIELD IN THE AREA OF NMU “V. LEVSKI” - V. TARNOVO

17.20-17.30 *Question and discussion*

16.25-16.40 ***Dimova Gergana. – Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / “Vasil Levsky” National Military University***

1. NEW TRENDS IN ENGLISH LANGUAGE EDUCATION OF CADETS AND STUDENTS FROM “GEODESY “SPECIALTY AT VASIL LEVSKI NATIONAL MILITARY UNIVERSITY

2. TECHNOLOGY AND METHODOLOGY IN THE DEVELOPMENT OF AN ENGLISH LANGUAGE MANUAL FOR CADETS AND STUDENTS FROM "GEODESY" SPECIALTY AT VASIL LEVSKI NATIONAL MILITARY UNIVERSITY QUESTION AND DISCUSSION

16.40-16.45 *Question and discussion*

27 September 2023

09.00-09.40 ***Dimova Gergana. – Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / “Vasil Levsky” National Military University***

NEW TRENDS IN ENGLISH LANGUAGE EDUCATION OF CADETS AND STUDENTS FROM “GEODESY “SPECIALTY AT VASIL LEVSKI NATIONAL MILITARY UNIVERSITY

TECHNOLOGY AND METHODOLOGY IN THE DEVELOPMENT OF AN ENGLISH LANGUAGE MANUAL FOR CADETS AND STUDENTS FROM "GEODESY" SPECIALTY AT VASIL LEVSKI NATIONAL MILITARY UNIVERSITY QUESTION AND DISCUSSION

09.40-09.50 *Question and discussion*

09.50-10.10 Coffee break

10.10-10.30 ***Kiril Atanasov, Dragomir Nikolov, Matu Jelev - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / “Vasil Levsky” National Military University***

GEODETIC METHODS FOR DEFINING THE MAIN DIRECTION OF SHOOTING AT SHOOTING RANGES.

Question and discussion

10.30-10.50

Hristian Georgiev, Hristiana Koleva, Danail Draganov, Marin Rusev, Viktor.Dragiev, Mariq Cendova - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / "Vasil Levsky" National Military University

GEODETIC SURVEY AND VERTICAL LEVELLING OF FACULTY "A, AIR DEFENSE AND CIS" – SHUMEN CINEMA HALL'S ADJACENT AREA

10.50-11.00

Question and discussion

11.00-11.40

Plamena Ivanova, Venelin Kojuharov - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / "Vasil Levsky" National Military University

ORGANIZATION AND MANAGEMENT OF EDUCATIONAL PRACTICE IN "PHOTOGRAMMETRY" AT MGS - TROYAN

GEODETIC WORKS DURING THE MILITARY TRAINING OF CADETS FROM THE "GEODESY-AII" SPECIALTY IN ASENOVGRAD

11.40-11.50

Question and discussion

11.50-12.10

Tanev T., Tanev G. - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / "Vasil Levsky" National Military University

CREATION OF GROUND CONTROL POINTS FOR PHOTOGRAMMETRIC SURVEYING FOR THE PURPOSES OF MAPPING THE NORTHERN SIDE OF STARA PLANINA

12.10-12.20

Question and discussion

28 September 2023

14.30-14.50

Monika Bedjeva - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / "Vasil Levsky" National Military University

ANALYSIS OF THE INFLUENCE OF THE NUMBER OF TIE POINTS ON THE PROCESS OF MUTUAL ORIENTATION OF A STEREO PAIR OF PHOTOGRAPHS IN A BASE COORDINATE SYSTEM

14.50-15.00

Question and discussion

15.00-15.20

Niazi-Usuf Mirem., Stoikov Evgeni - Konstantin Preslavsky University of Shumen, Shumen, Bulgaria

MAINTENANCE OF THE CADASTRAL MAP AND CADASTRAL REGISTERS IN CURRENT CONDITION

15.20-15.30 *Question and discussion*

29 September 2023

09.00-09.40 ***Neli Zdravcheva University Architecture, Civil Engineering and Geodesy - Sofia***

THE ROLE OF REMOTE SENSING FOR STUDYING CLIMATE CHANGE.

ECOLOGICAL MONITORING BASED ON PHOTOGRAMMETRY AND REMOTE SENSING

09.40-09.50 *Question and discussion*

09.50-10.10 ***Petrov D. - Geodesy Department, Artillery, Air Defense and Communication and Information Systems Faculty - Shumen / “Vasil Levsky” National Military University***

APPLICATION OF DIGITAL PHOTOGRAMMETRY FOR TYING UP THE ARTILLERY’S BATTLE FORMATION AND FIRE CONTROL USING UAVS

10.10-10.20 *Question and discussion*