



15th International Scientific Practical Conference

“Environment. Technology. Resources”

The conference is organized by Rezekne Academy of Technologies, Faculty of Engineering, Latvia

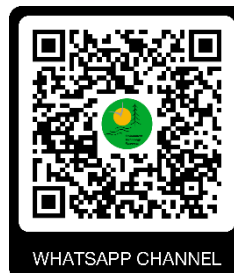
Hosted by "Vasil Levski" National Military University, Bulgaria

June 27, 2024 – June 28, 2024

Programme



VIBER CHANNEL



WHATSAPP CHANNEL

Rēzekne, 2024

15th International Scientific Practical Conference
“Environment. Technology. Resources”
ONLINE LINKS

Opening session, Conference Plenary Session, Project workshop:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZWMzMjQ2NmQtOTJlMi00NWY5LTgzZjAtNGM2MTEwMDhmMDA5%40thead.v2/0?context=%7b%22Tid%22%3a%2298294fad-5083-4c14-be4c-f78ad3cc7f31%22%2c%22Oid%22%3a%22fee7268b-0df0-444c-95f2-b91c16e6e536%22%7d

Session "Environment and Resources":

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjZiZTEyZjktNGU3MC00YzZwLThjYjltZGNjYTEwZTA2ZThk%40thread.v2/0?context=%7b%22Tid%22%3a%2298294fad-5083-4c14-be4c-f78ad3cc7f31%22%2c%22Oid%22%3a%22fee7268b-0df0-444c-95f2-b91c16e6e536%22%7d

Session "Information technologies":

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NjJIYmY0N2UtMmQzZi00NWZkLWEzYTctODk4NmI5NTQ4OwM1%40thead.v2/0?context=%7b%22Tid%22%3a%2298294fad-5083-4c14-be4c-f78ad3cc7f31%22%2c%22Oid%22%3a%22fee7268b-0df0-444c-95f2-b91c16e6e536%22%7d

Session "Laser Technologies":

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmM5NTE2N2YtYmFkMy00YzM5LTgzNGEtZWJjZjdiNmU3MDI3%40thead.v2/0?context=%7b%22Tid%22%3a%2298294fad-5083-4c14-be4c-f78ad3cc7f31%22%2c%22Oid%22%3a%229482f95e-b751-46b9-8fa9-98cd202cd78f%22%7d

Session "Engineering, sciences and production technologies":

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MGM3MmE2NjktZmM3Mi00NGNiLWI4ODQtMjE3N2Q2NTJmN2Iz%40thead.v2/0?context=%7b%22Tid%22%3a%2298294fad-5083-4c14-be4c-f78ad3cc7f31%22%2c%22Oid%22%3a%229482f95e-b751-46b9-8fa9-98cd202cd78f%22%7d

Session "Defence and security technologies":

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDk4NjYzMzMtNGZhMS00YmQ5LWE1ZGQtNDJhODY1ZTRmYzU4%40thead.v2/0?context=%7b%22Tid%22%3a%2298294fad-5083-4c14-be4c-f78ad3cc7f31%22%2c%22Oid%22%3a%2208b9852d-6f11-4266-ba82-c7f79dae115a%22%7d

Session "Education in engineering sciences":

https://teams.microsoft.com/l/meetup-join/19%3ameeting_YWIzZTYzYTUtMmMzYi00NTQ0LTg1NzYtMjVkJWZiNDcwYzAz%40thead.v2/0?context=%7b%22Tid%22%3a%2298294fad-5083-4c14-be4c-f78ad3cc7f31%22%2c%22Oid%22%3a%2208b9852d-6f11-4266-ba82-c7f79dae115a%22%7d

CONFERENCE PROGRAMME 26.06.2024.

Time	Programme
	"Vasil Levski" National Military University, Bulgaria
10.00-12.00	Registration, VISIT to the production company
15.00-17.00	CITY TOUR in Tsarevets. It is the residence of the Bulgarian kings in the 11th-14th centuries, when Tarnovo was the capital of Bulgaria
19.00	CONCERT of the military orchestra of the National Military University "Vasil Levski" together with other orchestras

On June 24, the Veliko Tarnovo Medicinal Plant Festival takes place in Enevden, and if you arrive earlier, you can attend these events in the city.

CONFERENCE PROGRAMME 27.06.2024.

	Programme					
Time	"Vasil Levski" National Military University, Bulgaria Veliko Tarnovo PO Box 5000, "Bulgaria" Blvd. Nr. 76					
8.00-9.00	Registration, coffee 1st floor hall					
9.00-9.20	CONFERENCE OPENING Palace of Culture of Vasil Levski National Military University					
9.20-10.25	PLENARY SESSION Palace of Culture of Vasil Levski National Military University					
10.40 – 12.30	SECTIONS SESSION					
	Section 1 ENVIRONMENT AND RESOURCES	Remote Section 2 ENVIRONMENT AND RESOURCES	Section 3 LASER TECHNOLOGIES	Section 4 ENVIRONMENT AND RESOURCES	Remote section 5 DEFENCE AND SECURITY TECHNOLOGIES	Poster* Section
	Room 1121	Room 1118	Room 1109	Room 1208	Room 1210	1st floor hall
12.30-13.30	Coffee break, 1st floor hall					
13.30-15.00	SECTIONS SESSION					
	Section 1 ENVIRONMENT AND RESOURCES	Remote Section 2 ENVIRONMENT AND RESOURCES	Remote Section 3 LASER TECHNOLOGIES	Section 4 EDUCATION IN ENGINEERING SCIENCES	Remote section 5 DEFENCE AND SECURITY TECHNOLOGIES	Poster* Section
	Room 1121	Room 1118	Room 1109	Room 1208	Room 1210	1st floor hall
16.00 – 18.00	CITY TOUR in Veliko Tarnovo					
20.00-23.00	DINNER at the Yantra restaurant, there will also be a projection of the Tsarevets light show - sound and light					
23.30	RETURN TO Veliko Tarnovo					

* Poster (1 page) must be send to e-mail: vtr@rta.lv until 10 June, 2024

CONFERENCE PROGRAMME 28.06.2024.

PROGRAMME					
Time	"Vasil Levski" National Military University, Bulgaria Veliko Tarnovo PO Box 5000, 76 Blvd. Bulgaria				
9.00-10.00	VISIT to "Vasil Levski" National Military University, Bulgaria				
10.00-10.35	Coffee, 1st floor hall				
10.40 – 12.30	Section 1 INFORMATION TECHNOLOGIES	Remote Section 2 INFORMATION TECHNOLOGIES	Section 3 ENGINEERING SCIENCES AND PRODUCTION TECHNOLOGIES	Section 4 DEFENCE AND SECURITY TECHNOLOGIES	Section 5 ENGINEERING SCIENCES AND PRODUCTION TECHNOLOGIES
	Room 1121	Room 1118	Room 1109	Room 1208	Room 1210
12.30-13.30	Coffee break, 1st floor hall				
13.30-16.00	Section 1 INFORMATION TECHNOLOGIES	Remote Section 2 INFORMATION TECHNOLOGIES	Remote section 3 ENGINEERING SCIENCES AND PRODUCTION TECHNOLOGIES	Section 4 DEFENCE AND SECURITY TECHNOLOGIES	Remote Section 5 EDUCATION IN ENGINEERING SCIENCES
	Room 1121	Room 1118	Room 1109	Room 1208	Room 1210
16.00	VISIT to "Vasil Levski" National Military University, Bulgaria				

27.06.2024.

CONFERENCE OPENING

[Online link](#)

WELCOME SPEECHES

9.00- 9.20

Prof. Dr.oec. Iveta Mietule, Rector of Rezekne Academy of Technologies

Brig. General Ivan Malamov, "Vasil Levski" National Military University, Bulgaria

Dr.sc.ing. Edmunds Teirumnieks, Scientific Committee Chairman, Rezekne Academy of Technologies

Prof. PhD Nikolay Dolchinkov, Organizing Committee Chairman, "Vasil Levski" National Military University, Bulgaria

PLENARY SESSION

[ONLINE LINK](#)

9.20-9.40

Rumen Marinov

CONTEMPORARY CHALLENGES TO THE PROTECTION OF THE COUNTRY'S SOVEREIGNTY

9.40-10.00

Alexander Dreischuh

RELIABLE APPROACH FOR GENERATING QUASI-NON-DIFFRACTING BESSEL-GAUSSIAN BEAMS

10.00-10.20

Lyubomir Lazov, Tsanko Karadzhov, Edmunds Teirumnieks, Antons Pacejs, Conyu Conev

METHODS FOR MEASUREMENT OF PULSE PARAMETERS OF FIBER LASERS

27.06.2024.

ENVIRONMENT AND RESOURCES

Section 1
27.06.2024.

Chairmen: PhD Rosita Zvirgzdina and PhD Iveta Linina,
room 1121

10.40-10.50	Atanasi Tashev, Evgeni Dimitrov INVESTIGATION OF THE IMPACT OF COMPRESSED NATURAL GAS ON HEAT RELEASE RATE IN DUAL-FUEL OPERATION OF A D3900 DIESEL ENGINE AT MID LOADS
10.55-11.05	Teodora Rizova, Nadezhda Dimova THE INFORMATION AGE IN COMMUNICATIONS AND ITS IMPACT ON CONSUMER BEHAVIOR IN THE TOURISM BUSINESS
11.10-11.20	Mihai Petrov, Zdravka Nikolaeva, Aleksandar Dimitrov, Velichka Traneva THERMODYNAMIC EMPIRISM FOR DESCRIBING ATMOSPHERIC POLLUTANTS
11.25-11.35	Mina Markova-Karpuzova, Eduard Marinov, Nikolay Kotzev SUSTAINABLE SOLUTIONS: ADVANCING IN TECH-BASED ESG REPORTING PLATFORMS
11.40-11.50	Vanya Tsonkova SOVEREIGN SUSTAINABLE BOND MARKET – POSITIONING AND EFFECTS
11.55-12.05	Nikolay Todorov Dolchinkov, Michael Petkov Pavlov STUDY OF THE INFLUENCE OF WINDS IN THE POTENTIAL CONTAMINATION WITH HAZARDOUS SUBSTANCES AS A RESULT OF MAN-MADE ACCIDENTS
12.10-12.20	Julija Steinhart SUSTAINABLE ORGANIZATIONAL PERFORMANCE, ITS TRENDS AND DEVELOPMENTS
12.25-13.30	<i>Coffee-break</i>
13.30-13.40	Nikolay Todorov Dolchinkov, Yanitsa Antonova Boyanova, Nikolay Bonev Nichev URANIUM MINES IN BULGARIA - ANALYSIS OF THE STATE 30 YEARS AFTER THEIR CLOSURE
13.45-13.55	Muhammad Ramzan Ali, Zulayho Kadirova, Bakhtiyor Ismoyilov PRACTICING GREEN HRM TO ACHIEVE ENVIRONMENTAL SUSTAINABILITY
14.00-14.10	Rosita Zvirgzdina, Dace Sakena, Iveta Linina REORGANIZATION BUSINESS MANAGEMENT MODEL FOR INCREASING THE COMPETITIVENESS OF REAL ESTATE MANAGEMENT COMPANIES IN LATVIA THROUGH MERGER AND ACQUISITION TRANSACTIONS
14.15-14.25	Iveta Linina, Gita Jansevica, Velga Vevere ORGANIZATION OF PARTICIPATORY BUDGET (PB) DEVELOPMENT IN LATVIAN MUNICIPALITIES
14.30-14.40	Ziedonis Miklašēvičs OPPORTUNITIES OF IMPROVING HARVESTING TECHNOLOGIES FOR WIDER USE OF SCOTS PINE (PINUS SYLVESTRIS L.) IN CONSTRUCTION ELEMENTS

ENVIRONMENT AND RESOURCES

[Online link](#)

Section 2
27.06.2024.

Chairmen: PhD Nikolay Padarev, PhD Plamen Pavlov and PhD
Ivan Minevski,
remote section, room 1118

10.40-10.50	Ieva Bake, Liga Rampane, Ilze Balgale, Silvija Kukle, Imants Adijans EVALUATION OF THE GRAPHENE DISPERSIONS FOR KEVLAR FABRICS FUNCTIONALIZATION OBTAINED BY THE LIQUID-EXFOLIATION OF GRAPHITE
10.55-11.05	Inta Kotane, Iveta Mietule ASSESSMENT OF FACTORS IN THE PERFORMANCE OF THE MANUFACTURING INDUSTRY

11.10-11.20	Ivars Avotiņš, Gita Avotiņa, Rosita Zvirgzdiņa POSSIBLE IMPROVEMENTS OF PERSONAL INCOME TAX IN LATVIA
11.25-11.35	Eduards Aksjonenko, Didzis Rutitis LITERATURE REVIEW ON MANAGEMENT CONSULTING COLLABORATION WITH COMPANIES WHILE CRAFTING STRATEGY
11.40-11.50	Hugo Mauricio Paz Roca, Vladimirs Šatrevičs, Irina Voronova, Rita Greitane FACTORS INFLUENCING THE IMPLEMENTATION OF DIGITALIZATION IN THE LIVESTOCK INDUSTRY 4.0
11.55-12.05	Renata Kondratavičienė, Inga Bertašienė, Diana Mačiukienė SOCIAL WORK STUDENTS' ATTITUDES TOWARDS THE RELEVANCE OF THEIR STUDIES
12.10-12.20	Plamen Pavlov, Victor Gladchenko PROVING OPTIMIZATION BY COMPARISON OF BUSINESS PROCESSES
12.25-13.30	<i>Coffee-break</i>
13.30-13.40	Oleksandr Faichuk, Oksana Pashchenko, Olena Zharikova, Nataliia Kovalenko, Olha Faichuk ECONOMIC EFFICIENCY OF THE GHG EMISSIONS FROM ENERGY USE IN AGRICULTURE: COMPARATIVE ANALYSIS OF UKRAINE AND THE EU MEMBER STATES
13.45-13.55	Delyan Plachkov ADVANCING SUSTAINABILITY: THE ROLE OF GREEN ECONOMY IN ENVIRONMENTAL CONSERVATION AND RESOURCE MANAGEMENT
14.00-14.10	Sevdalina Dimitrova, Kaspars Kikste PREREQUISITES FOR THE ESTABLISHMENT OF THE BALTIC-BLACK SEA UNION
14.15-14.25	Stefan Parvanov, Kiril Alexiev, Tzvetan Ostromsky, Evgeniy Ivanov, Valentin Chochev AIR POLLUTION ENGINEERING FOR ACCIDENTS WITH HAZARDOUS SUBSTANCES
14.30-14.40	Ulugbek Kadirov, Dilnoza Rakhmatova, Urxiya Turabekova, Dilnoza Musaeva INCREASING THE FIRE RESISTANCE OF POLYMER BUILDING MATERIALS BASED ON TECHNOGENIC WASTE

LASER TECHNOLOGIES

Section 3
27.06.2024.

Chairmen: PhD Nikolay Dolchinkov and PhD student Antons Pacejs,
Room 1109

10.40-10.50	Nikolay Todorov Dolchinkov, Milen Krasimirov Tortorikov INVESTIGATION OF LASER MARKING ON CHROMIUM-NICKEL SAMPLES
10.55-11.05	Jekabs Lapa, Imants Adijāns, Emil Yankov, Lyubomir Lazov, Ritvars Rēvalds INVESTIGATION FIBER LASER EFFECTS ON TITANIUM GR2: COLOR MARKING AND SURFACE ROUGHNESS
11.10-11.20	Velichko Radoslavov Machev, Nikolay Tonchev Tonchev METHODOLOGY AND EXPERIENCE IN APPLYING A NON-DESTRUCTIVE TESTING METHOD BY BARKHAUSEN NOISE ANALYSIS, FOR EXAMPLE, IN ION-TREATED SAMPLES
11.25-11.35	Gatis Tutins, Imants Adijāns, Emil Yankov, Artis Bikovs INVESTIGATION OF THE EFFECT OF LASER POWER, SPEED AND FREQUENCY ON SURFACE ROUGHNESS AND COLOR MARKING ON AISI 304
11.40-11.50	Lubova Denisova, Antons Pacejs, Emil Yankov, Lyubomir Lazov INVESTIGATION OF LASER TEXTURING ON THE SURFACE OF ANODIZED ALUMINIUM

Section 3
27.06.2024.

Chairmen: PhD Nikolay Dolchinkov and PhD student Antons Pacejs,
room 1109
link: [Online link](#)

11.55-12.05	Anželika Litavnieka, Imants Adijāns LASER SURFACE MARKING ON ENGINEERING THERMOPLASTIC: POLYAMIDE
12.10-12.20	Edmunds Sprudzs, Lyubomir Lazov, Emil Yankov, Imants Adijans

	OBTAINING A PROMISING LASER INDUCED SURFACE NANOSTRUCTURE OF TITANIUM ALLOY FOR BIOCOMPATIBILITY
12.25-13.30	Coffee-break
13.30-13.40	Arturs Abolins LASER RADIATION MADE HYDROPHOBIC SURFACE ON STAINLESS STEEL FOR FOOD INDUSTRY, A REVIEW
13.45-13.55	Jekabs Lapa, Imants Adijāns, Emil Yankov, Lyubomir Lazov, Ritvars Rēvalds INVESTIGATION FIBER LASER EFFECTS ON TITANIUM GR2: COLOR MARKING AND SURFACE ROUGHNESS
14.00-14.10	Anželika Litavnieka, Imants Adijāns, Emil Yankov, Lyubomir Lazov, Artis Bikovs INVESTIGATION OF THE OPTIMIZATION PROCESS OF LASER SURFACE MARKING ON POLYAMIDE SAMPLES
14.15-14.25	Artis Stanislavs Gusts, Imants Adijāns INVESTIGATION OF LASER TEXTURING PARAMETERS AND THEIR IMPACT ON GLUE ADHESION PROPERTIES ON THE SURFACE OF BIRCH PLYWOOD
14.30-14.40	Vitālijs Jurčs, Emil Yankov, Nikolay Angelov, Antons Pacejs, Imants Adijāns INFLUENCE OF SOME TECHNOLOGICAL PARAMETERS ON LASER MARKING PROCESS OF COPPER SURFACES
14.45-14.55	Dzintars Rāviņš, Imants Adijāns, Emil Yankov, Vladislavs Bakakins THE IMPACT OF CO2 LASER POWER AND SCANNING SPEED ON VARIOUS WOOD AND THERMOWOOD SAMPLES

ENVIRONMENT AND RESOURCES

Section 4
27.06.2024.

Chairmen: PhD Galina Chipriyanova and PhD Hugo Fujishima,
room 1208

10.40-10.50	Galina Chipriyanova, Atanas Atanasov, Radosveta Krasteva-Hristova ENVIRONMENTAL MANAGEMENT FOR SUSTAINABLE BUSINESS IN CHEMICAL INDUSTRY IN BULGARIA
10.55-11.05	Vihra Dimitrova, Plamen Pavlov A NEW APPROACH TO SUSTAINABLE MANAGEMENT – THE CONCEPT OF SOCIAL FARMING
11.10-11.20	Hugo Fujishima, Gina Chávez, Milagros Granda, Alondra Oviedo, Edward Rojas ASSESSMENT OF THE SUSTAINABILITY OF WATER AND SANITATION SYSTEMS IN RURAL VILLAGES THROUGH INDICATORS. AN EXPERIENCE OF CONCEPTUAL DESIGN AND APPLIED SOFTWARE IN PERU
11.25-11.35	Nadezhda Petkova, Kristian Stefanov, Manol Ognyanov, Dasha Mihaylova, Dragomir Vassilev PHYTOCHEMICAL STUDY OF COMFREY (SYMPHYLUS OFFICINALE L.) ROOT EXTRACTS
11.40-11.50	Sylvia Goranova, Kiril Anguelov CRITICAL REVIEW OF BULGARIAN LEGISLATION RELATED TO CIRCULAR ECONOMY
12.25-13.30	Coffee-break

EDUCATION IN ENGINEERING SCIENCES

Section 4
27.06.2024.

Chairmen: PhD Marek Kawa and PhD Vihra Dimitrova,
room 1208

13.30-13.40	Vanya Katsarska SYNERGY OF COMPETENCES IN AERONAUTICAL ENGLISH EDUCATION
13.45-13.55	Vihra Dimitrova, Nikolay Nikolov, Todor Gospodinov EDUCATION IN THE ERA OF SMART CITIES: TRANSFORMATION AND OPPORTUNITIES
14.00-14.10	Valentina Voinohovska, Julia Doncheva ENHANCING STUDENTS' CODING SKILLS WITH BLOOM'S TAXONOMY AND THE COMPETENCE APPROACH THROUGH EDUCATIONAL GAME DESIGN
14.15-14.25	Mirosław Grewiński, Marek Kawa

	THE IMPACT OF TECHNOLOGY ON CHANGES IN LABOR MARKETS AND COMPETENCES
14.30-14.40	Jūlija Mironova, Viktoriia Riashchenko, Remigijus Kinderis, Valentina Djakona, Sevdalina Ilieva Dimitrova ETHICAL CONCERNS IN USING OF GENERATIVE TOOLS IN HIGHER EDUCATION: CROSS - COUNTRY STUDY
14.45-14.55	Vanya Katsarska SYNERGY OF COMPETENCES IN AERONAUTICAL ENGLISH EDUCATION
15.00-15.10	Franz Tito Coronel-Zubiata, Carlos Alberto Farje-Gallardo, Edward Enrique Rojas de la Puente ENVIRONMENTAL IMPACT OF WASTE IN DENTAL CARE: EDUCATIONAL STRATEGIES TO PROMOTE ENVIRONMENTAL SUSTAINABILITY

DEFENCE AND SECURITY TECHNOLOGIES

Section 5
27.06.2024.

Chairmen: PhD Rosen Bogdanov, PhD Nikolay Kulev and DsC Zhaneta Savova,
remote section, room 1210
link: [Online link](#)

10.40-10.50	Vladislavs Sardiko ATTITUDES OF LATVIAN EXTERNAL BORDER CUSTOM OFFICERS TOWARDS WORK
10.55-11.05	Steliana Yordanova, Ralitsa Yotova, Stoyan Boyanov, Stoyan Garov TERRORISM – A BARBARIC TOOL AND ITS DISPROPORTIONATE COUNTERACTION IN THE CONFLICT BETWEEN HAMAS AND ISRAEL
11.10-11.20	Jelena Djubina THE GENESIS OF THE CRIMINAL'S PERSONALITY IN THE DIGITAL AGE
11.25-11.35	Ivo Radulov, Teodora Georgieva A SCREENING METHOD FOR C2 EXPERT ASSESSMENT
11.40-11.50	Dimo Anastasov Ivanov THE NUCLEAR FAMILY IN MODERN TERRORISM
11.55-12.05	Jordan Deliversky ILLEGAL MIGRATION PROCESSES MANAGEMENT IN THE LIGHT OF THE NEW EUROPEAN UNION PACT ON MIGRATION AND ASYLUM
12.10-12.20	Maria Neikova LEGAL APPROACH TO IMPLEMENTING SECURITY MEASURES FOR COMBATTING THREATS TO NATIONAL CRITICAL INFRASTRUCTURES
12.25-13.30	<i>Coffee-break</i>
13.30-13.40	Ilze Bērziņa THE IMPORTANCE OF DESIGNING OF INFORMATION SYSTEMS AND DATA EXCHANGE POSSIBILITIES TO CARRY OUT MULTIDISCIPLINARY COOPERATION TO PREVENT VIOLENCE AGAINST CHILDREN
13.45-13.55	Radoslav Yoshinov, Monka Kotseva, Anastas Madzharov, Neda Chehlarova IMPLYING CYBERSECURITY SKILLS FOR PUBLIC ADMINISTRATION EMPLOYEES
14.00-14.10	Anelia Atipova THE EUROPEAN TEMPORARY PROTECTION DIRECTIVE AND THE UKRAINIAN REFUGEE CRISIS
14.15-14.25	Zarko Zdravkov, Anelia Atipova METHODOLOGY FOR EVALUATION OF STRATEGIC DOCUMENTS
INFORMATION TECHNOLOGIES	
14.30-14.45	Stanimir Parvanov RESEARCH OF DIFFERENT TURBO CODE SPEEDS, TYPES OF MODULATIONS, DECODING METHODS AND THEIR COMPATIBILITY WITH ENCRYPTION TECHNIQUES

28.06.2024.

INFORMATION TECHNOLOGIES

Section 1
28.06.2024.

Chairmen: PhD Krasimir Slavyanov and PhD Velga Vevere,
room 1121

10.40-10.50	Milka Asenova INCOLAB INFORMATION SYSTEM FOR BETTER MANAGEMENT OF ECOSYSTEMS IN THE TRANSBOUNDARY REGION OF THE DANUBE RIVER
10.55-11.05	Milen Simeonov, Marin Marinov DETERMINE THE LOCATION OF NODES IN WIRELESS SENSOR NETWORK BY USING GENETIC ALGORITHM
11.10-11.20	Anatolii Yarovyi, Andrii Yarovyi, Svitlana Kizim, Volodymyr Ozeranskyi INNOVATIVE TRENDS IN THE FIELD OF MODERN ARTIFICIAL INTELLIGENCE METHODOLOGY
11.25-11.35	Dimitar Dimitrov DIGITIZATION AND INTELLIGENT MANAGEMENT SYSTEMS IN TRANSPORT: AN OVERVIEW OF PROBLEMS AND SOLUTIONS
11.40-11.50	Galina Chipriyanova, Mihail Chipriyanov, Kiril Luchkov INVESTIGATION AND ANALYSIS OF ATTITUDES TOWARDS THE IMPLEMENTATION OF ARTIFICIAL INTELLIGENCE IN INTERNAL BUSINESS PROCESSES
11.55-12.05	Miglena Angelova PROS AND CONS OF USING ALGORITHMIC MANAGEMENT IN HUMAN RESOURCE
12.10-12.20	Dimitar Dimitrov, Ivan Manchev METHODOLOGICAL AND TECHNICAL ASPECTS OF MODELS FOR DIGITAL MANAGEMENT OF TRANSPORT SYSTEMS
12.25-13.30	<i>Coffee-break</i>
13.30-13.40	Krasimir Slavyanov FUZZY INFERENCE SYSTEM FOR INVESTMENT VALUE ASSESSMENT BASED ON HISTORICAL DATA
13.45-13.55	Krasimir Slavyanov, Radostin Dimov APPLICATION OF FUZZY LOGIC IN CYBERSECURITY DECISION MAKING AND ANALYSIS AFTER A CYBER INCIDENT DETECTION
14.00-14.10	Krasimir Slavyanov ONE APPROACH FOR APPLICATION OF GEOGRAPHIC INFORMATION SYSTEMS AND FUZZY LOGIC IN BUSINESS DECISION-MAKING
14.15-14.25	Velga Vevere, Kamalpreet Singh, Iveta Linina FRAMEWORK FOR ENHANCING CUSTOMER LOYALTY OF TELECOMMUNICATION COMPANIES IN INDIA: A CASE OF RELIANCE JIO INFOCOMM LTD
14.30-14.40	Evija Klave, Renāte Cāne DIGITAL TRANSFORMATION OF HIGHER EDUCATION: INTEGRATING MULTIMEDIA SYSTEMS INTO THE STUDY PROCESS
14.45-14.55	Aigars Andersons, Rafail Prodani, Jozef Bushati, Gjulio Zefi PHYSICAL ACTIVITY RECOVERY MODEL IN POST COVID-19 PERIOD: LATVIA CASE STUDY

INFORMATION TECHNOLOGIES

Section 2
28.06.2024.

Chairmen: PhD Linko Nikolov and PhD Ilmārs Apeināns,
remote section, room 1118
link: [Online link](#)

10.40-10.50	Olga Vindača, Anda Āboliņa, Līga Danilāne TRANSFORMING HIGHER EDUCATION IN THE ERA OF ARTIFICIAL INTELLIGENCE CHAT TOOLS: CASE STUDY
10.55-11.05	Pēteris Grabusts, Oļegs Užga-Rebrovs, Lāsma Priževoite, Inta Kotāne DECISION TREE METHODS IN GRAIN YIELD FORECASTING
11.10-11.20	Sergejs Kodors, Guna Kaņepe, Daniēls Zeps, Imants Zarembo, Lienīte Litavniece RAPID DEVELOPMENT OF CHATBOT FOR TOURISM PROMOTION IN LATGALE
11.25-11.35	Pavel Petrov, Vassil Milev ANALYSIS AND APPLICATION OF CRM SYSTEMS IN THE FIELD OF EDUCATION
11.40-11.50	Ilmars Apeinans, Marks Sondors, Lienīte Litavniece, Sergejs Kodors, Imants Zarembo, Daina Feldmane CHERRY FRUITLET DETECTION USING YOLOV5 OR YOLOV8?
11.55-12.05	Ilmars Apeinans OPTIMAL SIZE OF AGRICULTURAL DATASET FOR YOLOV8 TRAINING
12.10-12.20	Ilmars Apeinans, Valdis Tārauds, Lienīte Litavniece, Sergejs Kodors, Imants Zarembo ANT DETECTION USING YOLOV8: EVALUATION OF DATASET TRANSFER IMPACT
12.25-13.30	<i>Coffee-break</i>
13.30-13.40	Matīss Eriņš, Zigurds Markovičs CALCULATION OF HUMAN FATIGUE IN THE ENVIRONMENT OF LINGUISTIC VARIABLES
13.45-13.55	Daniela Mirtcheva-Ivanova APPLICATION OF ARTIFICIAL INTELLIGENCE IN E-LEARNING
14.00-14.10	Vitalii Kyslitsyn, Liudmyla Shevchenko, Volodymyr Umanets, Lina Sikoraka, Yaroslav Angelov APPLYING THE PYTHON PROGRAMMING LANGUAGE AND ARDUINO ROBOTICS KITS IN THE PROCESS OF TRAINING FUTURE TEACHERS OF COMPUTER SCIENCE
14.15-14.25	Akvelina Čuladytė, Aleksandra Batuchina ANALYSIS OF VIRTUAL TOURISM OPPORTUNITIES IN KLAIPĖDA, LITHUANIA
14.30-14.40	Diyora Talipova, Barno Ganiyeva, Sherbek Normatov, Marat Rakhmatullaev A METHOD FOR DETERMINING AND EVALUATING WEBOMETRIC INDICATORS OF PUBLIC LIBRARIES
14.45-14.55	Ilmārs Kangro, Harijs Kalis ON SPECIAL FINITE DIFFERENCE APPROXIMATIONS FOR SOLVING SECOND ORDER DIFFERENTIAL EQUATIONS
15.00-15.10	Radoslav Yoshinov, Monka Kotseva, Anastas Madzharov, Neda Chehlarova SKILLS AND ATTITUDES TOWARDS USING AI BASED CHATBOTS
15.15-15.25	Mukhammadjon Musaev, Marat Rakhmatullaev, Sherbek Normatov, Kamoliddin Shukurov, Malika Abdullaeva INTEGRATED INTELLIGENT SYSTEM FOR SCIENTIFIC AND EDUCATIONAL INFORMATION RETRIEVAL
15.30-15.40	Ivan Gaidarski, Neda Chehlarova MANAGEMENT APPROACHES AND APPLICATION AREAS OF INFORMATION SECURITY IN ORGANIZATIONS
15.45-15.55	Fayzi Bekkamov, Yashin Sharifov EXTENDED USER PROFILING APPROACHES FOR RECOMMENDATION SYSTEMS

ENGINEERING SCIENCES AND PRODUCTION TECHNOLOGIES

Section 3
28.06.2024.

Chairmen: PhD student Ivars Laicāns and PhD Vaidotas Matutis,
room 1109

10.40-10.50	Kliment Georgiev STATISTICAL ANALYSIS OF THE QUALITY OF A TECHNOLOGICAL PROCESS FOR THE PRODUCTION OF SHAFTS FOR ELECTRIC MOTORS BY ROUGHNESS STUDY
10.55-11.05	Kristaps Siltumens, Inga Grinfelde, Ginters Znots, Rudolfs Golubovs, Raitis Brencis RECYCLING OF TEXTILE WASTE INTO SOUND-ABSORBING ACOUSTIC PLATES
11.10-11.20	Hristian Panayotov, Stanimir Penchev, Martin Zikyamov EXPERIMENTAL STUDY OF TURBULENCE IN THE TEST SECTION OF WIND TUNNEL
11.25-11.35	Sai Pavan Kanukuntla STATE OF THE ART AND LITERATURE REVIEW RESEARCH OF HOLLOW NANOFIBERS: FOCUSING ON FABRICATION, CAD IMPLEMENTATION AND OPTIMISATION
11.40-11.50	Ivars Laicāns, Elīza Ķibilda, Krista Žvagiņa, Žanna Martinšone, Ilona Pavlovskā ASSESSING DAILY INTAKE OF INDOOR AIR POLLUTANTS FROM 3D PRINTING
11.55-12.05	Ivan Ivanov, Karmen Aleksandrova DESIGN AND IMPLEMENTATION OF SOFTWARE-DEFINED DOPPLER RADAR
12.10-12.20	Ivan Ivanov, Mario Angelov DESIGN AND IMPLEMENTATION OF SOFTWARE-DEFINED PI/4-DQPSK MODEM WITH RECEIVE ANTENNA DIVERSITY
12.25-13.30	Coffee-break

ENGINEERING SCIENCES AND PRODUCTION TECHNOLOGIES

13.30-13.40	Todor Todorov, Georgi Todorov, Ivan Ivanov ENHANCED EFFICIENCY IN TWO-COMPONENT INJECTION MOLDING PRODUCT FOR AUTOMOTIVE APPLICATIONS
13.45-13.55	Çiğdem Susantez, Hilmi Kuşçu, Kamil Kahveci COOLING GLOVE COMPARTMENT OF A VEHICLE BY THERMOELECTRIC COOLERS
14.00-14.10	Paulius Sakalys, Loreta Savulioniene, Dainius Savulionis, Anastasiya Chupryna, Kyrylo Smelyakov RESEARCH OF ROBOTIC SYSTEM POSITIONING ACCURACY
14.15-14.25	Mihail Zagorski, Radoslav Miltchev FACILITATION OF THE 3D SCANNING PROCESS OF INDUSTRIAL SITES USING A SELF-MOVING AUTONOMOUS ROBOTIC SYSTEM
14.30-14.40	Mihail Zagorski, Radoslav Miltchev, Mario Semkov COMPUTER MODELING AND SIMULATION OF MECHANISMS USING FREE AND OPEN-SOURCE SOFTWARE
14.45-14.55	Nickolay Popov NON-LINEAR MODEL IN REGION OF VERY LOW SPEEDS FOR A PERMANENT MAGNET DIRECT CURRENT MOTOR
15.00-15.10	Stoyan Lilov, Vanya Markova, Nickolay Popov, Ventseslav Shopov LONGITUDINAL STABILITY OF WHEELED MOBILE ROBOTS - DEGREE OF STABILITY
15.15-15.25	Karunamoorthy Rengasamy Kannathan, Arthur Machanovskis, Rajeev Ralla, Eirik Gjerlow BEHAVIOR OF SHORT FIBER COMPOSITE MATERIALS IN VARIATION OF THERMAL AND MECHANICAL LOADING
15.30-15.40	Karunamoorthy Rengasamy Kannathan, Andrejs Krasnikovs, Arthur Machanovskis, Iveta Novakova MECHANICAL BEHAVIOR OF COMPOSITE BASALT SHORT FIBER FOR CONCRETE STRUCTURE REINFORCEMENT

DEFENCE AND SECURITY TECHNOLOGIES

Section 4
28.06.2024.

Chairmen: PhD Krastyu Ivanov Krastev, PhD student Jakub Pavlik,
room 1208

10.40-10.50	Veselka Stoyanova RESEARCH OF THE CHARACTERISTICS OF A STEGANOGRAPHY ALGORITHM IN IMAGES WHEN USING DIFFERENT ALPHABET
10.55-11.05	Kaloyan Kolev, Yordan Shterev WIRELESS SECURITY ISSUES
11.10-11.20	Radostin Dimov, Zhaneta Savova ANTIVIRUS PERFORMANCE EVALUATION AGAINST POWERSHELL OBFUSCATED MALWARE
11.25-11.35	Zhaneta Savova, Rosen Bogdanov SOME SPECIFIC FEATURES IN THE CONSTRUCTION OF P-ARY REED-SOLOMON CODES FOR AN ARBITRARY PRIME P
11.40-11.50	Krastyu Ivanov Krastev THE CONTRIBUTION OF THE MILITARY SCHOOL TO THE BUILDING OF THE NATIONAL SECURITY SYSTEM OF BULGARIA IN THE PERIOD 1878-1885
11.55-12.05	Jakub Pavlik, Tomas Rozsypal EFFECT OF PRECIPITATION AND CONTAMINATION ORIGIN ON THE EFFICIENCY OF PINACOLYL ALCOHOL IDENTIFICATION IN CONCRETE DEBRIS
12.10-12.20	Nikolay Iliyanov Padarev APPLICATION OF SOFTWARE PLATFORMS TO ENHANCE EARLY WARNING AND DETECTION SYSTEM CAPABILITIES FOR NUCLEAR WEAPONS THREAT
12.25-13.30	<i>Coffee-break</i>
13.30-13.40	Vladimir Statev DOES COMBAT DEPLOYMENT EXPERIENCE AFFECT THE COMMANDER'S DECISION-MAKING PROCESS?
13.45-13.55	Grigor Grigorov MOTIVATION FOR CHOOSING AN OFFICER CAREER
14.00-14.10	Grigor Grigorov MODEL FOR RECRUITING SERVICEMEN IN THE ARMED FORCES
14.15-14.25	Nikolay Tsvyatkov MISSION COMMAND AND THE CHALLENGES OF THE EARLY 21-ST CENTURY
14.30-14.40	Rumen Marinov MODEL OF MANAGEMENT OF PROCESSES AND PHENOMENA'S IN THE MILITARY SECURITY SYSTEM
14.45-14.55	Nikolay Petrov COMPLEX OF ACTIVITIES SUPPORTING THE MANAGEMENT OF THE RADIO FREQUENCY SPECTRUM IN MILITARY OPERATIONS
15.00-15.10	Krasimir Kalev, Lyubomir Manov A PRELIMINARY STUDY OF PHOTON RADIATION ATTENUATION FROM BALLISTIC PROTECTION MATERIALS
15.15-15.25	Normunds Rudzitis, Aldis Čevērs, Dana Drubiņa, Sandra Karkliņa-Admine A RISK-BASED CUSTOMS CONTROL SYSTEM IN FREE ZONES
15.30-15.40	Nikolay Iliev INDICATORS OF MILITARY CAPABILITIES OF ENEMY SABOTAGE-RECONNAISSANCE GROUPS AND THEIR MODELLING

ENGINEERING SCIENCES AND PRODUCTION TECHNOLOGIES

Section 5
28.06.2024.

Chairmen: PhD Ivan Simeonov Ivanov and PhD Nikolay Petrov,
room 1210

10.40-10.50	Ralitsa Penkova, Krasimir Drumev, Borislav Stoyanov, Desislava Kovacheva INVESTIGATION OF THE INFLUENCE OF TECHNOLOGICAL KNITTING PARAMETERS ON THE UNRAVELLING OF STRUCTURES
10.55-11.05	Georgi Stanchev TECHNICAL OBSTACLES TO SPEECH INTELLIGIBILITY
11.10-11.20	Borislav Bedzhev, Dilyan Dimitrov TWO GENERALIZATIONS OF SKEW-SYMMETRIC SEQUENCES WITH ODD LENGTHS
11.25-11.35	Borislav Bedzhev, Dilyan Dimitrov MISMATCHED FILTERS FOR PROCESSING OF PHASE MANIPULATED SIGNALS WITH THREE-VALUED AUTOCORRELATION
11.40-11.50	Vaidotas Matutis, Loreta Savulioniene, Tomas Kasperavicius, Dainius Savulionis ELECTRIC GENERATOR MODEL RESEARCH (STAGE EFFICIENCY OF ELECTROMECHANICAL PART)
11.55-12.05	Stoyan Madzharov, Ivan S. Ivanov, Nayden Yordanov A DIGITALLY MANIPULATED GUNSHOT SOUND IDENTIFICATION
12.10-12.20	Kliment Georgiev, Pavlinka Katsarova COMPARATIVE ANALYSIS OF THE RESULTS OF AN EXPERIMENTAL STUDY WITH BASIC EQUIPMENT AND A SPECIALLY MADE ONE TO THE INSIZE ISR - C002 ROUGHNESS TESTER
12.25-13.30	<i>Coffee-break</i>

EDUCATION IN ENGINEERING SCIENCES

Section 5
28.06.2024.

Chairmen: PhD Ivan Simeonov Ivanov and PhD Nikolay Petrov,
remote section, room 1210
link: [Online link](#)

13.30-13.40	Ausra Repeckiene, Renata Žvireliene, Karolina Janickiene DEVELOPING MANAGERS' INTERCULTURAL COMPETENCE IN SMALL MANUFACTURING ENTERPRISES
13.45-13.55	Daniela Mirtcheva-Ivanova APPLICATION OF ELECTRONIC PLATFORMS TO INCREASE THE KNOWLEDGE OF LEARNERS
14.00-14.10	Nataliia Aristova, Oleksandr Malykhin, Liudmyla Dybkova TRANSVERSAL SKILLS THAT MATTER TO COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY UNDERGRADUATES AND STRATEGIES FOR THEIR DEVELOPMENT IN ENGLISH CLASSROOM
14.15-14.25	Oleksandr Malykhin, Nataliia Aristova, Liudmyla Dybkova TITLE ORGANISING PERSONALISED LEARNING IN THE ENGLISH LANGUAGE CLASSROOM: COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY UNDERGRADUATES PERSPECTIVES
14.30-14.40	Oleksandr Malykhin, Nataliia Aristova, Maryna Vyshnevskaya, Kseniia Kugai, Inna Makhovych EXPLORING COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY UNDERGRADUATES' VIEWS ON DEVELOPING THEIR INNOVATIVE THINKING IN ENGLISH CLASSROOM
14.45-14.55	Oleksandra Shykyrynska, Valentyna Liapunova, Olha Melnykova, Kateryna Mnyshenko, Tetiana Petryshyna READINESS OF THE FUTURE PRESCHOOL AND PRIMARY EDUCATION SPECIALISTS TO FORM THE FOUNDATIONS OF CHILDREN'S CYBER SECURITY
15.00-15.10	Nargiza Pazilova PROBLEMS AND SOLUTIONS TO IMPROVE THE EFFICIENCY OF USING ELECTRONIC INFORMATION RESOURCES AT UNIVERSITIES IN UZBEKISTAN
15.15-15.25	Svetlana Gribanova

	WHAT MOTIVATES THE CREATIVITY OF GENERATION Z EMPLOYEES? THE INFLUENCE OF EXTRINSIC AND INCRISTIC MOTIVATING FACTORS ON THE EXAMPLE OF IT SPECIALISTS FROM EU COUNTRIES
15.30-15.40	Vanda Vyshkivska, Yuliia Sylenko, Oksana Golikova, Tetiana Tsehelnik, Oksana Patlaichuk ANALYSIS OF THE EXPERIENCE AND PROSPECTS OF THE IMPLEMENTATION OF THE MOODLE PLATFORM FOR THE ORGANIZATION OF DISTANCE LEARNING IN UKRAINIAN UNIVERSITIES
15.45-15.55	Eugenijus Macerauskas, Eivin Laukhammer, Andzej Lucun, Antoni Kozic, Romanas Tumasonis APPLICATION OF AI-ENHANCED IMAGE PROCESSING METHODS FOR EDUCATIONAL APPLIED PHYSICS EXPERIMENTS

27.06.2024.

Poster*
Section 5
27.06.2024.

Chairmen: PhD Desislava Petrova, PhD Galina Ivanova, PhD Eugenija Strazdiene,
assist. Yanitsa Boyanova, student Imants Justs,
1st florr hall

ENVIRONMENT AND RESOURCES

<p>Poster* Section 5 10.30-11.30 13.30-14.30</p>	<p>Nevena Byanova FROM FOSSIL FUELS TO RENEWABLE ENERGY: TRACKING BULGARIA'S TRANSITION</p>
	<p>Ivan Byanov THE AGRICULTURE DEVELOPMENT IN MARKET ORIENTED AGRICULTURAL HOLDINGS IN EUROPEAN UNION /BULGARIAN CASE STUDY/</p>
	<p>Daniela Toneva, Desislava Dimitrova SOME ASPECTS OF THE WATER CRISIS IN BULGARIA</p>
	<p>Stiliyana Taneva, Krasimir Ambarev COMPARISON OF NATURAL FREQUENCIES OF A MACPHERSON SUSPENSION ARM USING DIFFERENT BUSHINGS</p>
	<p>Stiliyana Taneva, Krasimir Ambarev, Stanimir Penchev STRENGTH AND FREQUENCY ANALYSIS OF THE LOWER ARM OF A DOUBLE WISHBONE SUSPENSION OF A PASSENGER CAR</p>
	<p>Stiliyana Taneva, Stanimir Penchev, Krasimir Ambarev STIFFNESS ANALYSIS OF THE RUBBER BUSHINGS OF MACPHERSON AND DOUBLE WISHBONE SUSPENSIONS</p>
	<p>Stiliyana Taneva, Stanimir Penchev, Krasimir Ambarev MECHANICAL BEHAVIOR AND STIFFNESS OF A POLYURETHANE BUSHING OF A PASSENGER CAR SUSPENSION</p>
	<p>Daniela Toneva, Miroslava Robinson CHALLENGES TO THE DEVELOPMENT OF THE MARINE LITTER MONITORING SYSTEM IN BULGARIA</p>
	<p>Nikolay Dolchinkov CONSTRUCTION OF A SYSTEM FOR MONITORING THE POLLUTION OF WATER BODIES WITH WASTE</p>
	<p>Trayna Nikolaeva Dolchinkova ANALYSIS OF CAROTENOIDS IN SWEET POTATOES USING HPLC TO HELP COMBAT VITAMIN A DEFICIENCY</p>
	<p>Gergana Velyanova, Krasimir Kossev ENVIRONMENTALLY ACCEPTABLE SYNTHESIS OF MAGNESIUM BEARING FERTILIZERS. III SOLID STATE SYNTHESIS</p>
	<p>Aleksandrs Adamovičs, Liena Poiša THE EFFECT OF DIGESTATE AND WOOD ASH MIXTURES ON THE PRODUCTIVITY AND YIELD QUALITY OF MAIZE</p>
	<p>Imants Justs, Liena Poiša, Toms Vīksna, Valentina Pole, Kristīne Ivanova, Justīne Vīksna, Andris Skromulis CHARACTERISTICS OF THE BEEKEEPING INDUSTRY IN THE LATVIA</p>
	<p>Inna Stakhova, Nataliia Oliinyk, Inna Karuk, Natalia Kazmirchuk ENVIRONMENTAL PROBLEMS OF UKRAINE DURING THE WAR PERIOD: WAYS OF THEM OVERCOMING</p>
	<p>Ziedonis Miklaševičs, Natālija Burnēviča, Jānis Iejavs, Kaspars Šķele EVALUATION OF ASPEN (POPULUS TREMULA) WOOD STRUCTURE INFECTED BY FUNGI (PHELLINUS TREMULAE) AND OPPORTUNITIES FOR WIDER USE OF TIMBER IN STRUCTURAL ELEMENTS</p>
<p>Jelena Oreha, Aleksandra Morozova, Vladimir Kostousov, Natalja Škute THE ESTIMATION OF SPATIAL GENETIC DIVERSITY OF VENDACE (COREGONUS ALBULA L.) POPULATIONS IN BALTIC LAKE LAND</p>	

<p>Inta Umbrasko, Anna Batjuka, Aleksandrs Petjukevics, Natalja Skute ANTIFUNGAL ACTIVITY OF MEDICINAL HERBS AQUEOUS EXTRACTS: COMMON WORMWOOD (ARTEMISIA ABSINTHIUM L.), GREATER BURDOCK (ARCTIUM LAPPA L.), COMMON THYME (THYMUS VULGARIS L.) AND POT MARIGOLD (CALENDULA OFFICINALIS L.) ON YEAST SACCHAROMYCES CEREVISIAE</p>
<p>Vasko Vasilev THE IMPACT OF HUMAN CAPITAL ON STRATEGIC PLANNING AND IMPLEMENTATION OF CRM FOR ENHANCING CUSTOMER REALIATIONSHIP IN ENVEROUMENT AND RESOURCES</p>
<p>Ekaterina Arabska, Svetla Dimitrova, Rezear Kolaj, Petar Borisov CHALLENGES AND OPPORTUNITIES FOR DEVELOPMENT OF ORGANIC PRODUCTION IN BULGARIA</p>
<p>Aija Brakovska, Jana Paidere, Rasma Tretjakova CHANGES IN STRUCTURE OF ZOOPLANKTON COMMUNITIES IN THE DAUGAVA RIVER AND PĻAVIŅAS RESERVOIR</p>
<p>Anna Andersone, Sarmite Janceva, Natalija Zaharova, Vizma Nikolajeva, Vilhelmine Jurkjane ARONIA MELANOCARPA (BLACK CHOKEBERRY) BRANCHES BIOMASS AS A SOURCE OF VALUABLE BIOLOGICALLY ACTIVE COMPOUNDS WITH ANTIOXIDANT AND ANTIMICROBIAL POTENTIAL</p>
<p>Iluta Arbidane, Halina Synycyna, Dmytro Odarchenko, Karlis Kreslins, Vaida Bartkute-Norkuniene THEORETICAL AND PRACTICAL ASPECTS OF GREEN ENTREPRENEURSHIP DEVELOPMENT: A STUDY OF LATVIA'S EXPERIENCE FOR UKRAINE'S POST-WAR RECOVERY</p>
<p>Jovita Pilecka-Ulcugaceva, Oskars Purmalis, Anda Bakute, Sindija Liepa, Inga Grinfelde DISTRIBUTION OF IRON IN DUST NEAR STREETS: CASE STUDY JELGAVA CITY</p>
<p>Ekaterina Arabska, Svetla Dimitrova, Aleksandar Davchev, Dimitar Yakimov, Plamen Lakov THE BUSINESS MODEL OF ALTERNATIVE FOOD NETWORKS IN BULGARIA</p>
<p>Sarmite Janceva, Anna Andersone, Natalija Zaharova, Vizma Nikolajeva, Agrita Svarta SOIL AMENDMENTS BASED ON FOREST LOGGING RESIDUES ON DILL (ANETHUM GRAVEOLENS L.) PRODUCTIVITY AND COMPOSITION</p>
<p>Ingrīda Augšpole, Gundega Putniece, Guna Bundzēna, Renāte Sanžarevska WINFOLIA FLAG LEAF ANALYSIS OF WINTER WHEAT (TRITICUM AESTIVUM L.) AND EVALUATION OF GRAIN QUALITY INDICATORS</p>
<p>Rasma Tretjakova, Samanta Marija Misiņa, Aurelija Deksne, Aija Brakovska, Jana Paidere, Sergejs Kodors THE APPLICATION PERSPECTIVES OF LAKE CLAY INFUSED WITH NATURAL ACTIVE AGENTS - ESSENTIAL OILS IN COSMETOLOGY AND DERMATOLOGY</p>
<p>Mariana Filipova, Genadiy Gospodinov, Lyubomir Gotsev, Eugenia Kovatcheva, Boyan Jekov QUANTUM COMPUTING APPLICATIONS FOR ADDRESSING GLOBAL WARMING AND POLLUTION: A COMPREHENSIVE ANALYSIS</p>
<p>Irina Sivicka, Aleksandrs Adamovičs EVALUATION OF OREGANO (ORIGANUM VULGARE L.) ACCESSIONS BY COMPLEX OF FUNCTIONAL TRAITS</p>
<p>Birutė Praneviciene, Violeta Vasiliauskienė, Anželika Baneviciene REGULATING THE ELECTRIC VEHICLE MARKET WITHIN THE FRAMEWORK OF THE EUROPEAN GREEN COURSE</p>
<p>Oleg Kucher, Lyudmyla Mykhailova, Zoya Pustova, Serhii Yermakov, Volodymyr Mazur MANAGEMENT OF THE SOLAR POWER DEVELOPMENT IN HOUSEHOLDS OF UKRAINE</p>
<p>Ekaterina Arabska, Svetla Dimitrova, Aleksandar Davchev, Dimitar Yakimov, Plamen Lakov THE BUSINESS MODEL OF ALTERNATIVE FOOD NETWORKS IN BULGARIA</p>
<p>Juta Dekšne</p>

	CIRCULAR ECONOMY AS A TOOL FOR SUSTAINABLE DEVELOPMENT: A THEORETICAL PERSPECTIVE
	Evgeni Lyubomirov Kehayov, Ivan Angelov Mitkov, Georgi Georgiev Komitov EXAMINATION OF THE VARIATION OF MTA POWER WHEN WORKING WITH OIL ANAMEGATORS
	Ilga Krampuža IS THE PRINCIPLE OF JUSTICE RESPECTED IN THE IMPLEMENTATION OF CONVENTIONAL BEEKEEPING SUPPORT?
	Marufjan Musaev, Azizjon Boboiev, Eldor Arziyev FORMALIZATION OF TASKS TO ENSURE THE SAFETY OF EMERGENCY AND EXPLOSIVE OPERATIONS IN THE MINING INDUSTRY
	Nikolay Nikolov SMART CITIES AS A TOOL FOR ENVIRONMENTAL SUSTAINABILITY: OPPORTUNITIES AND CHALLENGES
	Atanas Veselinov Sevov, Georgi Kraev Stanchev, Veska Atanasova Georgieva, Lyubka Hristova Koleva-Valkova, Georgi Georgiev Komitov SEASONAL DYNAMIC IN CO2 ABSORPTION CAPACITIES OF NATURAL GRASSLANDS
	Hristo Vasilev, Georgi Kraev Stanchev, Georgi Georgiev Komitov MULTIFUNCTIONAL ORCHARD MODEL FOR SYNERGISTIC PRODUCTION
	Valentin Vasilev, Dimitrina Stefanova, Monika Icheva GREEN HUMAN RESOURCE MANAGEMENT AS A COMPONENT OF SUSTAINABLE ORGANIZATIONAL DEVELOPMENT IN ENVIRONMENTAL AND NATURAL ECONOMICS
	Serhii Yermakov, Mykola Korchak, Vasyl Duhanets, Vitaliy Pukas, Mykola Vusatyi RATIONALE FOR THE COMBINED CULTIVATOR DESIGN FOR CULTIVATING SOIL LITTERED WITH PLANT REMAINS OF ROUGH-STEMMED CROPS

INFORMATION TECHNOLOGIES

Poster* Section 5 10.30-11.30 13.30-14.30	Borislav Nikolov APPROACH TO DEVELOPING A MARITIME CYBERSECURITY VIRTUAL TRAINING ENVIRONMENT
	Angela Rumenova Borisova NETWORK ATTACK RECOGNITION USING FUZZY LOGIC
	Milena Kuleva, Ognyan Miladinov EXPLORING THE EFFICACY OF ONLINE PROCTORING IN ONLINE EXAMINATIONS: A COMPREHENSIVE REVIEW
	Milena Kuleva EXPLORING THE INTEGRATION OF VIRTUAL REALITY IN PHYSICAL EDUCATION: A COMPREHENSIVE REVIEW
	Inga Kudeikina, Sandra Kaija LIMITS OF THE USE OF ARTIFICIAL INTELLIGENCE IN LAW – ETHICAL AND LEGAL ASPECTS
	Tsvetoslav Tsankov, Liliya Staneva, Ivelina Vardev, Dimitar Iliev APPLICATION OF A GENERALIZED NET MODEL IN THE COMMUNICATION OF TWO INDEPENDENT TRAFFIC IN FACULTY OF TECHNICAL SCIENCES AT KONSTANTIN PRES LAVSKI UNIVERSITY OF SHUMEN
	Roberts Volkovičs, Viesturs Bambāns, Ginta Majore ENVIRONMENTAL DATA AND DIGITAL TWINS FOR ROAD TRAFFIC SAFETY IN RURAL AREAS
	Ivan Trenchev, Tereza Trencheva, Vladimir Angelov, Yordan Spirov, Yana Karshiyska, Kamelia Shumanova INTEGRATING MIXED REALITY WITH NEURAL NETWORKS FOR ADVANCED MOLECULAR VISUALIZATION IN BIOINFORMATICS: A MATHEMATICAL FRAMEWORK FOR DRUG DISCOVERY
	Oļegs Nīkadimovs, Velga Vēvere THE USE OF GENERATIVE ARTIFICIAL INTELLIGENCE IN HIGHER EDUCATION: UNIVERSITY SOCIAL RESPONSIBILITY AND STAKEHOLDERS' PERCEPTIONS

	<p>Svetlana Syarova, Stefka Toleva - Stoimenova, Alexander Kirkov, Samuel Petkov, Krasimir Traykov DATA LEAKAGE PREVENTION AND DETECTION IN DIGITAL CONFIGURATIONS: A SURVEY</p> <p>Komil Kerimov, Zarina Azizova, Fayzi Bekkamov, Mekhriddin Rakhimov, Mannon Ochilov ENSURING INFORMATION SECURITY IN THE INTELLIGENT SCIENTIFIC AND TECHNICAL INFORMATION SYSTEMS</p> <p>Komil Kerimov, Zarina Azizova METHODOLOGY OF INFORMATION SECURITY RISK ASSESSMENT OF ELECTRONIC RESOURCES UNDER UNAUTHORIZED ACCESS THREATS</p>	
<p>Poster* Section 5 10.30-11.30 13.30-14.30</p>	<p>Rosen Iliev, Miroslav Kochankov A GENERALIZED NET MODEL OF COMMAND AND CONTROL SYSTEM</p> <p>Miroslav Kochankov, Rosen Iliev A GENERALIZED NET MODEL FOR ACCESSING INFORMATION RESOURCES IN A SECURE ENVIRONMENT</p> <p>Dmytro Mamchur, Janis Peksa AN IMPLEMENTATION OF BRAIN-COMPUTER INTERFACE IN RESEARCH ACTIVITIES</p> <p>Andrejs Snipkis, Guna Semjonova, Daina Smite USABILITY AND UTILITY OF THE SNIPTOUCH INNOVATIVE AGILITY TRAINING DEVICE PROTOTYPE IN PATIENTS WITH UPPER EXTREMITY IMPAIRMENTS AFTER STROKE: A MULTIPLE CASE STUDY</p> <p>Ekaterina Hristova, Daniel Denev, Tsvetoslav Tsankov A SURVEY OF DATA QUALITY IN INDUSTRIAL NETWORKS AND ENHANCING THEIR RELIABILITY COMPLEX INDICATOR FOR THE NEEDS OF THE INDUSTRY</p> <p>Maryna Davydiuk, Oksana Fushtei, Anna Khilya, Irina Sarancha THE IMPACT OF ONLINE SOCIAL COMMUNICATION ON THE TRAINING OF SOCIAL WORKERS AND EDUCATORS (UKRAINIAN UNIVERSITIES)</p> <p>Dimitar Dimitrov, Krassimir Lalov INTELLIGENT RAIL TRANSPORT MANAGEMENT SYSTEMS - METHODOLOGICAL ESSENCE, GOALS AND TASKS</p> <p>Elina Elere, Andra Ulme, Lucio De Paolis ARTIFICIAL INTELLIGENCE IN ARCHITECTURE AND ART EDUCATION</p> <p>Tetiana Koval, Nataliia Oliinyk, Tetiana Kryvosheya, Anna Khilya APPLICATION OF GAMIFICATION IN HIGHER EDUCATION: TRAINING OF EARLY CHILDHOOD AND PRIMARY EDUCATION TEACHERS IN UKRAINE</p> <p>Irena Petrova APPLIED METHODOLOGICAL ESSENCE OF PROJECT MANAGEMENT IN TRANSPORT THROUGH ARTIFICIAL INTELLIGENCE</p> <p>Oļegs Užga-Rebrovs, Pēteris Grabusts REVIEW OF METHODS FOR CLASSIFYING AND ASSESSING INFORMATION UNCERTAINTY</p>	
	ENGINEERING SCIENCES AND PRODUCTION TECHNOLOGIES	
	<p>Poster* Section 5 10.30-11.30 13.30-14.30</p>	<p>Silviya Salapateva A UNIFIED MODEL FOR ANALYZING DIMENSIONAL RELATIONSHIPS</p> <p>Silviya Salapateva PURPOSEFUL DIMENSIONING OF DETAILS, PROCESSED ON CNC MACHINE TOOLS</p> <p>Angel Lengerov, Silviya Salapateva, Georgi Levicharov IMPROVEMENT OF TECHNOLOGICAL PROCESSES TO REDUCE TOTAL INACCURACY DURING BORING DEEP HOLES</p> <p>Angel Lengerov, Silviya Salapateva, Martin Bojakov INVESTIGATION OF THE ELASTIC DEFORMATIONS OF THE TECHNOLOGICAL SYSTEM DURING TURNING OF ROTARY SURFACES</p> <p>Boyan Dochev, Desislava Dimova, Mihail Zagorski, Plamen Kasabov, Bozhana Chuchulska</p>

	INVESTIGATION OF THE INFLUENCE OF ARTIFICIAL AGING PARAMETERS ON THE MICRO AND MACRO HARDNESS OF ALSI12CU5MGCR AND ALSI12CU5MN ALLOYS
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	Nedyu Nedev, Zvezditzia Nenova, Stephan Kozhukharov, Stefan Ivanov, Toshko Nenov HUMIDITY SENSING ELEMENTS BASED ON SILICA-GRAPHENE SURFACE LAYERS
	Serhii Yermakov, Taras Hutsol, Iryna Mushenyk, Stepan Zamojskij, Oleksandr Hovorov MATHEMATICAL MODEL EQUATION OF THE ENERGY WILLOW CUTTING UNLOADING PROCESS FROM THE SLOT HOPPER AUTOMATED PLANTER
	Serhii Yermakov, Oksana Bialkovska, Viktor Duhanets, Pavlo Potapskyi, Mykola Volynkin JUSTIFICATION OF THE PARAMETERS AND DEVELOPMENT OF THE DESIGN OF THE MECHANISM OF AUTOMATED SELECTION AND SUPPLY OF CUTTINGS IN ENERGY CULTURE PLANTS
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	Kalina Kamarska, Iva Naydenova, Ivalina Petrova, Georgi Dobrev STUDY OF AN ANTHOCYANINS AS A CORROSION INHIBITOR FOR ALUMINUM ALLOY EN AW-2024 IN ACIDIC MEDIA
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	Sabi Sabev, Konstantin Chukalov, Valeri Bakardzhiev DESIGNING A LABORATORY STAND FOR TESTING IMPACT RESISTANCE OF PLASTIC FILMS BY FREE-FALLING DART DROP ACCORDING ASTM D1709
	Sabi Sabev, Konstantin Chukalov OPTIMIZING TENSILE STRENGTH AT MAG WELDING PROCESS OF S235JR STEEL

<p>Yana Mourdjeva, Kateryna Valuiska, Yoanna Kostova, Vanya Dyakova DETAILED MICROSTRUCTURAL STUDIES OF AMORPHOUS AL-NI-SI AND AL-NI-SI-CU ALLOYS DURING CRYSTALLIZATION</p>
<p>Julieta Kaleicheva, Romyana Lazarova, Georgi Avdeev, Valentin Mishev, Zdravka Karaguiozova, Krassimir Kirov INVESTIGATION ON PHASE COMPOSITION AND MICROSTRUCTURE OF HIGH CHROMIUM WHITE CAST IRONS ALLOYED WITH BORON</p>
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<p>Blagovest Bankov, Todor Todorov, Yavor Sofronov, Ivan Ivanov A MULTI-STEP APPROACH FOR ANALYZING THE NUMBER OF POLYMER INJECTION MOLDING GATE SPOTS AND THEIR POSITION IN T-RTM TECHNOLOGY</p>
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<p>Neli Nikolova TECHNOLOGICAL PROJECT FOR VERTICAL AQUACULTURE PRODUCTION</p>
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<p>Roussi Minev, Veselin Hristov, Danail Gospodinov, Emil Yankov, Mariana Ilieva MODELING THE INFLUENCE OF GRAIN MORPHOLOGY ON THE LASER ENGRAVING PROCESSES</p>
<p>Simeon Tsenkulovski, Ivan Mitev INFLUENCE OF THE PARAMETERS OF THE LASER MARKING PROCESS ON THE DEPTH OF PENETRATION IN LAYER-REINFORCED COMPOSITES</p>
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<p>Yuliyana Minchev, Ivaylo Minchev MECHANO-MATHEMATICAL MODEL AND EXPERIMENTAL RESULTS ON THE DYNAMIC RELATION BETWEEN MARINE PROPELLER OSCILLATION AND MAIN SHIP ENGINE</p>
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	<p>Natalia Dmitrenko, Iryna Shkola, Bohdana Saliuk, Violetta Panchenko, Svitlana Neshko CANVA PLATFORM: VISUAL CONTENT FOR DEVELOPING WRITING SKILLS OF PROSPECTIVE ENGINEERS IN ESP CLASSES</p>
	<p>Nataliia Saienko, Olena Iliencko, Tetiana Solodovnyk, Anastasiia Ptushka, Zhanna Bogdan THE EXPERIENCE OF DEVELOPING SOCIAL RESPONSIBILITY IN THE NEXT GENERATION OF ENGINEERS AT UKRAINIAN UNIVERSITIES</p>
	<p>Olha Chaikovska, Olha Stoliarenko, Nataliia Hlushkovetska, Iryna Semenyshena ENHANCING STUDENTS' LISTENING COMPREHENSION SKILLS THROUGH AI-BASED PODCAST ACTIVITIES: A STUDY IN SELF-STUDY MODE</p>
	<p>Marin Jordanov Marinov SYNTHESIS OF EIGHT MIDDLE LOST MECHANISMS FINALLY DISCHARGED DISCREET POSITIONS</p>
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	<p>Georgi Dobrev, Nikolay Paunkov, Radoslava Terzieva, Misho Matsankov, Iva Naydenova, Dilyana Budakova ALGORITHM FOR DETERMINING PHOTORESIST CHARACTERISTICS</p>
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	<p>Anna Khilya, Halyna Kukharchuk, Yuliia Sabadosh, Alona Korol PRINCIPLES OF CREATING AND DESIGNING VIDEO CONTENT FOR ASYNCHRONOUS LEARNING</p>
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<p>Eugenija Strazdiene THE APPLICATION OF PROCESS SIMULATION SOFTWARE FLEXSIM IN TEXTILE STUDY PROGRAM</p>	

	<p>Tetiana Vasiutina, Liudmyla Ishchenko, Halyna Kit, Yulia Bondar, Anna Khilya ALGORITHM FOR IMPLEMENTING QUEST TECHNOLOGIES IN RESEARCH WORK WITH PRESCHOOL AND PRIMARY SCHOOL CHILDREN</p> <p>Oksana Voloshyna, Tetiana Melnychuk, Mykyta Sapohov, Nelia Burlaka, Anna Khilya THE POTENTIAL OF DEVELOPING AND CREATING ONLINE APPLICATIONS FOR TEACHER TRAINING</p> <p>Astrīda Rijkure, Janis Megnis TECHNICAL METHODS OF CLEANING SHIPWRECKS FROM GHOST NETS</p>	
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<p>Martin Zahariev THE APPLICABILITY OF THE EU DATA PROTECTION RULES IN THE AREA OF NATIONAL SECURITY IN THE REPUBLIC OF BULGARIA</p>
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<p>Tsveta Veselinova Monova LEGAL FRAMEWORK OF THE EU POLICY IN THE FIELD OF DEFENCE SPACE TECHNOLOGY</p>
<p>Komil Kerimov, Zarina Azizova ADAPTIVE MODEL FOR PROTECTION OF ELECTRONIC RESOURCES AGAINST INFORMATION SECURITY THREATS</p>
<p>Todor Dimitrov APPLYING ARTIFICIAL INTELLIGENCE FOR IMPROVING SITUATIONAL AWARENESS AND THREAT MONITORING AT SEA AS KEY FACTOR FOR SUCCESS IN NAVAL OPERATION</p>
<p>Dilyan Markov USE OF ARTILLERY FIRE SUPPORT ASSETS IN THE ATTRITION APPROACH IN THE RUSSIA-UKRAINE CONFLICT</p>
<p>Ralitsa Yotova CONCEPTUAL MODEL OF AN AUTOMATED SYSTEM FOR PROCESSING INFORMATION FROM OPEN SOURCES AND DETECTING INFORMATION DEVIATIONS</p>
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<p>Yana Dimitrova EVALUATION OF WEAR MECHANISM OF SPECIAL PURPOSE MACHINE ELEMENTS</p>
<p>Iliya Stoychev, Iliyan Hutov NIGHT VISION MONOCULAR - BASIC ELEMENTS AND DEVELOPMENT TRENDS</p>
<p>Iliya Stoychev, Iliyan Hutov NIGHT VISION MONOCULAR - BASIC ELEMENTS AND DEVELOPMENT TRENDS</p>
<p>Blagovest Bankov ANALYSIS OF THE INFLUENCE OF THE OGIVE RADIUS OF A 7.62X39 AMMUNITION BULLET ON THE CAVITATION CAVITY</p>
<p>Rosen Lazarov RESEARCH ON THE CHANGE IN BALLISTIC CHARACTERISTICS OF AMMUNITION WITH A MODIFIED PROJECTILE SHAPE DURING ITS MOVEMENT IN AN AIR ENVIRONMENT</p>
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<p>Olena Agapova, Giga Abuseridze, Andrii Svintsytskyi, Janis Grasis BUILDING RESILIENCE OF UKRAINIAN UNIVERSITIES IN THE FACE OF MILITARY INTERVENTION: EXPLORING FORMS AND IMPLICATION</p>
<p>Dilyana Dimitrova, Ivaylo Dimitrov SECURITY ANALYSIS OF LIGHTWEIGHT CRYPTOGRAPHIC ALGORITHMS</p>
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	Ivo Georgiev Radulov MODELLING OF CAPABILITY-BASED DEFENCE PLANNING PROCESSES
	Hristo Stanev, Stefan Hristozov APPLICABILITY OF JARUS SORA TO STATE UAS OPERATIONS IN DISASTER RELIEF
	Plamen Penkov Teodosiev TRENDS IN THE DEVELOPMENT OF MODERN INTERNATIONAL RELATIONS. THE NEW CHALLENGES FOR DIPLOMACY

* Poster (1 page) must be send to e-mail: vtr@rta.lv until **10 June, 2024**

PROJECT WORKSHOP

**International seminar "Perspectives and challenges of the hemp industry"
(within the project No. 18-00-A01612-000026 "Innovative solutions in processing
and processing of industrial hemp").**

Chairmen: PhD Erika Teirumnieka room 1217

28.06.2024.

zoom link: [Online link](#)

10:40– 11:20	Opening of the seminar Summary of the project "Innovative solutions in the processing and processing of industrial hemp" Edgars Romanovskis.
11:20 – 11:40	Scientific results of the project. PhD Ērika Teirumnieka.
11:40 – 12:00	Practical results of the project. Dr.sc.ing. Ādolfs Ruciņš.
12:00 – 12:30	Project findings. Dr.chem. Laura Andže.
13:30 – 15.00	Discussion on the sustainability of the project and its continuation in future projects.

International seminar "Perspectives and challenges of the hemp industry" Rural Support Service project "Innovative solutions for the treatment and processing of industrial hemp".
No. 18-00-A01612-000026

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ATTĪSTĪBAS
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EIROPAS SAVIENĪBA
EIROPA INVESTĒ LAUKU APVIDOS
Eiropas Lauksaimniecības fonds
lauku attīstībai

Atbalsta Zemkopības ministrija un Lauku atbalsta dienests