



UNIVERSITY OF NATIONAL AND WORLD ECONOMY

The Spirit Makes The Power

**15TH INTERNATIONAL CONFERENCE ON APPLICATION OF
INFORMATION AND COMMUNICATION TECHNOLOGY AND STATISTICS
IN ECONOMY AND EDUCATION
(ICAICTSEE – 2025)**

October 9 - 11, 2025

University of National and World Economy

Sofia, Bulgaria

<http://icaictsee.unwe.bg/>

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ICAICTSEE-2025

CONFERENCE PROGRAM

Important Notes

The ICAICTSEE-2025 will be conducted fully online through the **Microsoft TEAMS** software.

OCTOBER 9 ,2025

10:00, Sofia Bulgaria

Conference Official Opening

OPENING REMARKS – **PROF. DR. DIMITER VELEV**, ICAICTSEE-2025 CHAIR, UNWE

WELCOME SPEECH – **PROF. DR. SERGHEI OHRIMENKO**, AESM, MOLDOVA

OCTOBER 9 ,2025

PANEL 1 - 10:15 – 11:30, Sofia Bulgaria

CHAIR: PROF. DR. SERGHEI OHRIMENKO (AESM)

PAPER	TITLE
FA-01	ONTOLOGY OF SOFTWARE ABUSES Serghei Ohrimenko, Ghenadie Belinschi Information Security Lab., Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-02	DIGITAL TRANSFORMATION OF MOLDOVA'S AGRI-FOOD SECTOR: RISKS OF CREATING E-COMMERCE PLATFORMS FOR FARM PRODUCTS Aurica Turcan Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-03	E-COMMERCE: INNOVATIVE TOOLS FOR DIGITALIZING TRADE IN MOLDOVA Aurelia Turcan¹, Lucia Gujuman¹, Vlada Colesnicova² ¹ Academy of Economic Studies of Moldova, Chisinau, Moldova ² Institute of Mathematics and Computer Science, State University of Moldova
FA-04	USING ARTIFICIAL INTELLIGENCE TO ENSURE INFORMATION SECURITY OF ORGANIZATIONS: POSSIBILITIES, PROBLEMS AND PROSPECTS Olga Pugacheva Francisk Skorina Gomel State University, Gomel, Belarus
FA-05	NVIVO APPLICATION FOR QUALITATIVE DATA ANALYSIS IN SCIENTIFIC RESEARCH: OPTIONS AND RESULT VISUALIZATIONS Tatiana Colesnicova, Mihail Ciobanu Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-06	SOME WAYS TO DEVELOP A CULTURE OF CYBER SECURITY AMONG TEACHING STAFF Liubimir Chiriac, Violeta Bogdanova "Ion Creangă" State Pedagogical University, Chisinau, Moldova

PANEL 2 - 11:45 – 13:00, Sofia Bulgaria

CHAIR: PROF. DR. SERGHEI OHRIMENKO (AESM)

PAPER	TITLE
FA-07	TECHNOLOGICAL MODERNIZATION AS A QUALITY FACTOR Ivan Stamov University of European Studies of Moldova, Chisinau, Moldova
FA-08	INFORMATION AND TELECOMMUNICATION TECHNOLOGIES AS THE BASIS OF MODERN CYBER SECURITY Liudmyla Rybalchenko University of Customs and Finance, Dnipro, Ukraine
FA-09	LISTENING IN ENGLISH FOR IT STUDENTS: CHALLENGES AND SOLUTIONS Anastasia Romanova Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-10	TRENDS AND CHALLENGES IN INTERNATIONAL ESG REPORTING Irina Iavorschi, Liliana Lazari Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-11	STOCHASTIC MODELING OF CYBER RESILIENCE IN SMART POWER GRIDS USING CONTINUOUS-TIME MARKOV CHAINS Svetlana Konyuk, Alexey Rusanov S.C. "Add-Production" S.R.L., Chisinau, Moldova
FA-12	KNOWLEDGE MANAGEMENT AS A FACTOR IN THE INNOVATIVE DEVELOPMENT OF AN ORGANIZATION Irina Dorogaia Academy of Economic Studies of Moldova, Chisinau, Moldova

PANEL 3 - 14:00 – 15:15, Sofia Bulgaria

CHAIR: PROF. DR. SERGHEI OHRIMENKO (AESM)

PAPER	TITLE
FA-13	IDENTIFYING THE KEY DIMENSIONS OF LIFELONG LEARNING NEEDS IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT Oxana Livitchi Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-14	AI FOR DETECTING AND COMBATING DEEPFAKES AND DISINFORMATION Veronica Hîncu Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-15	INVESTMENTS IN MOLDOVA'S ENERGY INFRASTRUCTURE: PRIORITIES AND MODERNIZATION PROSPECTS Timur Lesan Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-16	DECISION SUPPORT SYSTEMS IN OPERATIONAL RISK MANAGEMENT: TRENDS, PERSPECTIVES AND THREATS. Olga Caminschi Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-17	MIND GAMES AND MACHINES: SOCIAL ENGINEERING IN THE CYBERSECURITY ERA Bradú Nichita IU International University of Applied Sciences, International Campus Berlin, German
FA-18	THE PHENOMENON OF GREENWASHING AND ITS IMPACT ON THE PERCEPTION AND REALITY OF FOOD SAFETY Stoian Eugeniu, Perciun Rodica Academy of Economic Studies of Moldova, Chisinau, Moldova

PANEL 4 - 15:30 – 16:45, Sofia Bulgaria

CHAIR: PROF. DR. SERGHEI OHRIMENKO (AESM)

PAPER	TITLE
FA-19	WHY WE NEED NEW ACCESS MODELS: FROM SESSION-BOUND AUTHORIZATION TO CONTINUOUS ACCESS Ghenadie Belinschi Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-20	ARTIFICIAL INTELLIGENCE IN THE THEORY AND PRACTICE TO CONSUMER BEHAVIOR Irina Balina Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-21	DIGITAL TRANSFORMATION OF KEY BUSINESS PROCESSES IN MOLDOVA'S ECONOMICS UNIVERSITIES: CURRENT MATURITY, BARRIERS, AND OUTCOMES Serghei Portarescu Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-22	MEASURING KNOWLEDGE-BASED COMPETITIVENESS THROUGH ICT AND INNOVATION INDICATORS: A MULTIDIMENSIONAL APPROACH Diana Ignatiuc Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-23	LIFE 360 IN PRACTICE: ADAPTING GLOBAL LUXURY SUSTAINABILITY STRATEGIES TO EMERGING WINE INDUSTRIES Vladislava Conop Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-24	ECONOMIC VALUE OF AI-ENABLED AIR QUALITY MONITORING IN SMART HOMES Adriana Catruc¹, Ion Inculet² ¹ Academy of Economic Studies of Moldova, Chisinau, Moldova ² Akadeco Smart Solutions S.R.L., Chisinau, Moldova

OCTOBER 10 ,2025

PANEL 5 - 14:00 – 15:15, Sofia Bulgaria

CHAIRS: DR. JEEVA JB (VIT), PROF. DR. DIMITER VELEV (UNWE)

PAPER	TITLE
VIT - 01	A REVIEW ON VARIOUS DEEP LEARNING TECHNIQUES FOR THE DETECTION OF BRAIN DISORDERS Enteamen Yengkhom, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 02	ENHANCING ELECTRORETINOGRAPHY DIAGNOSTICS THROUGH MACHINE LEARNING Riya Kulheri, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 03	MACHINE LEARNING AND DEEP LEARNING FOR CUFF-LESS BLOOD PRESSURE MONITORING: A REVIEW OF ADVANCES AND FUTURE DIRECTIONS Sneha Majumdar, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 04	MACHINE LEARNING AND DEEP LEARNING IN AUDIOLOGY: PATHWAYS TO IMPROVED DIAGNOSIS AND ACCESS T Priya Dharsini, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 05	SYNTHETIC PPG : DATA GENERATION AND APPLICATIONS Diptman Gupta, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 06	MACHINE LEARNING IN HEALTHCARE STAFF TRAINING AND ASSESSMENT R Rishab, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India

PANEL 6 - 15:30 – 16:45, Sofia Bulgaria

CHAIRS: DR. MYTHILI A (VIT), PROF. DR. DIMITER VELEV (UNWE)

PAPER	TITLE
VIT - 07	RECENT TRENDS IN ORGANIZATIONAL STRUCTURES: TOWARDS AGILE AND DIGITALLY-ENABLED ENTERPRISES Ayushmaan Panda, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 08	RECENT ADVANCES IN HOSPITAL INFORMATION SYSTEMS: TOWARDS SMARTER HEALTHCARE Prarthana M, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 09	CRM SYSTEM COMPATIBLE MODEL OF CORPORATE SUSTAINABILITY Adhvaith Shivkumar, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 10	A REVIEW OF DEEP LEARNING APPROACHES IN POSTPARTUM DEPRESSION DETECTION Vivek Saha, Nehal Chhalotre, Aryan Chaurasia, Sivakumar R Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 11	RECENT TRENDS IN SOFTWARE DEVELOPMENT LIFE CYCLE (SDLC) IN HEALTHCARE Siva Renjini Jeevan, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 12	ADVANCED MULTI-CHANNEL AND WEARABLE SURFACE ELECTROMYOGRAPHY SYSTEMS WITH AI-DRIVEN SIGNAL PROCESSING AND APPLICATIONS IN CLINICAL DIAGNOSTICS AND PROSTHETIC CONTROL Triparna Maitra, Sivakumar Rajgopal Vellore Institute of Technology, Vellore, Tamil Nadu, India

PANEL 7 - 17:00 – 18:15, Sofia Bulgaria

CHAIR: PROF. DR. SIVAKUMAR (VIT), PROF. DR. DIMITER VELEV (UNWE)

PAPER	TITLE
VIT - 13	TIME SERIES-BASED STAFFING FORECASTING USING ARIMA AND SARIMA MODELS FOR WORKFORCE OPTIMIZATION Neeraj Srinivasan, Sivakumar Rajagopal Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 14	SYMPTOM-BASED DISEASE PREDICTION USING MACHINE LEARNING AND NLP Vignesh.T.A, Sivakumar R Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 15	MACHINE LEARNING-BASED TRIAGE SYSTEM FOR EFFICIENT TELEMEDICINE CALL MANAGEMENT Alphonse Vimal Jose J, Sivakumar R Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT - 16	RECENT ADVANCEMENTS AND MACHINE LEARNING IN BIOMEDICAL TELEMETRY SYSTEMS: TOWARDS SMARTER PATIENT MONITORING V Dhanush Kumar, Sivakumar R Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT – 17	EXPLORING THE POTENTIALITIES OF BACTERIA-MEDIATED CHROMIUM CHELATION ACTIVITIES FROM BIOMEDICAL CONTAMINATED WATER SITES Kanthasami Vijaayganapathi, Saqib Hassan, Kunal Biswas Sathyabama Institute of Science and Technology, Tamilnadu, Chennai, India
VIT – 18	THE DIGITAL TRANSFORMATION OF TALENT ACQUISITION: A REVIEW OF AI-DRIVEN STRATEGIES AND ETHICAL CONSIDERATIONS Gokul Nittin A, Sivakumar R Vellore Institute of Technology, Vellore, Tamil Nadu, India

OCTOBER 11 ,2025

PANEL 8 - 10:00 – 11:15, Sofia Bulgaria

CHAIR: PROF. DR. PLAMENA ZLATEVA (UNWE)

PAPER	TITLE
BA-01	REGIONAL FOCUS AND SENTIMENT TRENDS IN BULGARIAN MEDIA: A STUDY BASED ON WEB PUBLICATIONS Plamen Milev University of National and World Economy, Sofia, Bulgaria
BA-02	REFERENCE MODEL OF DIGITAL TWIN-ENHANCED FRAMEWORK FOR CRITICAL INFRASTRUCTURE MANAGEMENT SIMULATION BASED ON THE HIGH LEVEL ARCHITECTURE STANDARD Georgi Kirov¹, Plamena Zlateva² ¹ International Business School, Botevgrad, Bulgaria ² University of National and World Economy, Sofia, Bulgaria
BA-03	A DIGITAL TWIN-CENTERED EXTENSION OF OBJECT-ORIENTED FRAMEWORKS FOR HLA SIMULATION OF CRITICAL INFRASTRUCTURE SYSTEMS AND INTERDEPENDENCIES Georgi Kirov¹, Dimiter Velev² ¹ International Business School, Botevgrad, Bulgaria ² University of National and World Economy, Sofia, Bulgaria
BA-04	INFORMATION SECURITY AUDIT – AN OBJECTIVE PREREQUISITE FOR IMPROVING THE CYBERSECURITY OF THE ENTERPRISE Rositsa Ivanova University of National and World Economy, Sofia, Bulgaria
BA-05	METHODOLOGICAL DIMENSIONS IN STRUCTURING CONTENT ON VIDEO PLATFORMS Yavor Tabov University of National and World Economy, Sofia, Bulgaria
BA-06	USING SIMULATIONS TO EVALUATE ONLINE LEARNING MODELS Bozhidar Bahov University of National and World Economy, Sofia, Bulgaria

PANEL 9 - 11:30 – 12:45, SOFIA BULGARIA CHAIR: PROF. DR. PLAMENA ZLATEVA (UNWE)	
PAPER	TITLE
BA-07	SECURITY AND PRIVACY CONCERNS IN SELF-SERVICE SYSTEMS Petar Genov University of National and World Economy, Sofia, Bulgaria
BA-08	ECONOMIC METRICS FOR MEASURING THE EFFECTIVENESS AND EFFICIENCY OF CYBERSECURITY INVESTMENTS Nedko Tagarev University of National and World Economy, Sofia, Bulgaria
BA-09	FINANCIAL FRAUDS AND CRIMES RELATED TO SOCIAL AND HEALTH INSURANCE CONTRIBUTIONS DUE BY ENTERPRISES MAIA NATCHKOVA University of National and World Economy, Sofia, Bulgaria
BA-10	APPLICATION OF FAULT TREE ANALYSIS AND SIMULATION MODELING FOR FOREST FIRE RISK ANALYSIS Tsvetan Tsvetkov, Anna-Maria Markova, Yassen Tsvetkov University of National and World Economy, Sofia, Bulgaria
BA-11	THE DRIVING FORCES BEHIND THE DEVELOPMENT OF KOREAN STUDIES IN BULGARIAN HIGHER EDUCATION AND FUTURE PROSPECTS James Kang University of Veliko Tarnovo “St. Cyril and St. Methodius”, Veliko Tarnovo, Bulgaria Universtiy of Plovdiv “Paisii Hilendarski”, Plovdiv, Bulgaria
BA-12	UTILIZING ARTIFICIAL INTELLIGENCE IN AUDITING AND INVESTIGATIONS Iavor Bachev University of National and World Economy, Sofia, Bulgaria

PANEL 10 - 14:00 – 15:15, SOFIA BULGARIA CHAIR: PROF. DR. PLAMENA ZLATEVA (UNWE)	
PAPER	TITLE
BA-13	TESTING THE DATA ACCESS LAYER: MODERN APPROACHES AND AI ASSISTANCE Maria Marzovanova, Veska Mihova University of National and World Economy, Sofia, Bulgaria
BA-14	METADATA-BASED UNIT TESTING OF SQL SERVER STORED PROCEDURES WITH TSQLT Veska Mihova, Maria Marzovanova University of National and World Economy, Sofia, Bulgaria
BA-15	USING MATHEMATICAL METHODS TO SOLVE ECONOMIC PROBLEMS AND PRODUCTION CRISES IN ENERGY AND TOURISM Kostadin Sheiretsky, Svetlin Antonov Technical University of Sofia. Bulgaria
BA-16	WILDFIRES AS ECONOMIC DISRUPTORS: SUSTAINABLE POLICIES FOR ENERGY, TOURISM, AND REGIONAL RECOVERY Kostadin Sheiretsky, Svetlin Antonov Technical University of Sofia, Bulgaria
BA-17	THREAT-LED PENETRATION TESTING FOR FINANCIAL STABILITY Maya Zhelyazkova University of National and World Economy, Sofia, Bulgaria
BA-18	COUNTERING GENERATIONAL DISENFRANCHISEMENT: BIPARTISAN STRATEGIES TO ENHANCE HOMEOWNERSHIP FOR MILLENNIALS AND GENERATION Z Boyan Mitrakiev University of National and World Economy, Sofia, Bulgaria

PANEL 11 - 15:30 – 16:45, SOFIA BULGARIA CHAIR: PROF. DR. PLAMENA ZLATEVA (UNWE)	
PAPER	TITLE
BA-19	FACTORS THAT ARE ENABLERS TO USE AI IN EDUCATION James Osondu Sofia University „St. Kliment Ohridski“, Sofia, Bulgaria
BA-20	ARTIFICIAL INTELLIGENCE IN MANAGING FORCED MIGRATION: EVIDENCE FROM EUROPE Vasil Pavlov University of National and World Economy, Sofia, Bulgaria
BA-21	EMOTIONS AS A TOOL OF INFLUENCE IN DIGITAL CAMPAIGNS Gergina Aleksova University of National and World Economy, Sofia, Bulgaria
BA-22	FINANCIAL INDICATORS AND MODELS FOR ASSESSING THE LIQUIDITY OF ENTERPRISES Bojidar Nachev University of National and World Economy, Sofia, Bulgaria
BA-23	ARTIFICIAL INTELLIGENCE AND CLIMATE CHALLENGES: BUSINESS SUSTAINABILITY Milena Kunova, Katerina Doichinova University of National and World Economy, Sofia, Bulgaria
BA-24	APPLICATION POSSIBILITIES OF MACHINE LEARNING IN FINANCE Kameliya Petkova, Melani Lyubenova University of National and World Economy, Sofia, Bulgaria
END OF CONFERENCE	