







Bucharest University of Economic Studies, Romania









PROGRAMME

"TECHNOLOGICAL INNOVATIONS IN DIGITAL SECURITY"



PROGRAMME

Thursday, 15 may, 2025		
9:30 - 10:00	Participants registration, Student Hub, bldg. B	
10:00 – 11:00	Opening of the International Scientific Conference. Plenary Session. (Chair: GULUMAN LUCIA, PhD, Ass. Prof.)	
	 STRATAN ALEXANDRU, Academician, Habilitated Doctor, Rector of the Academy of Economic Studies of Moldova, Republic of Moldova COCIUG VICTORIA, PhD, Associate Professor, Vice-Rector for Research and Partnerships, Academy of Economic Studies of Moldova, Republic of Moldova GOLOVCO ANATOLIE, Cybersecurity Expert in the Prime Minister's Office, Government of the Republic of Moldova BASIL W. NIKAS, Chief Operating Officer at Institute for Economic Growth and Legal Reform (IGROW) MANASTERSKA TATIANA, PhD, Professor, University of Kalisz, Poland OHRIMENCO SERGHEI, Habilitated Doctor, Professor, Laboratory of Information Security, Academy of Economic Studies of Moldova, Republic of Moldova ČEKEREVAC ZORAN, Habilitated Doctor, Professor, Editor-in-chief, MEST Journal, Belgrad, Serbia SHISHMANOV KRASIMIR, PhD, Professor, D.A.Tsenov Academy of Economics, Svishtov, Bulgaria VELEV DIMITER, Professor, Dr., University of National and World Economy, Bulgaria ORLOVA DINARA, Habilitated Doctor, Professor, Financial University under the Government of the Russia Federation, Russia 	
	BRADU NICHITA, IU International University of Applied Sciences, Germany Connection link: https://meet.google.com/wvi-yuwz-hyk	
11:00 – 13:00	Activities in the thematic sections according to the Programme of the International Scientific Conference	
13:00 – 14:00	LUNCH BREAK	
14:00 – 17:30	Activities in the thematic sections according to the Programme of the International Scientific Conference	
Friday, 16 may, 2025		
10:00 – 12:00	The International Scientific Conference Thematic Sections according to the Conference Programme	
12:00 – 12:30	Closing of the Conference	

Presentation time limits - 10 min., debates - 5 min.

Organizing Committee

COCIUG Victoria, PhD, Associate Professor, Vice-Rector for Research and Partnerships, Academy of Economic Studies of Moldova, Republic of Moldova

OHRIMENCO Serghei, Habilitated Doctor, Professor, Laboratory of Information Security, Academy of Economic Studies of Moldova, Republic of Moldova

ČEKEREVAC Zoran, Habilitated Doctor, Professor, Editor-in-chief, MEST Journal, Belgrad, Serbia **SHISHMANOV Krasimir**, PhD, Professor, Department of Business Informatics of the D.A.Tsenov Academy of Economic, Svishtov, Bulgaria

TOACA Zinovia, PhD, Associate Professor, Academy of Economic Studies of Moldova, Republic of Moldova GUJUMAN Lucia, PhD, Associate Professor, Academy of Economic Studies of Moldova, Republic of Moldova GEORGESCU Radu-Mircea, PhD, Professor, Alexandru Ioan Cuza University of Iași, Romania CRISTESCU Marian-Pompiliu, PhD, Professor, Lucian Blaga University, Sibiu, Romania LOZAN Victoria, PhD, Lecturer, Academy of Economic Studies of Moldova, Republic of Moldova CATRUC Adriana, PhD Student, Lecturer, Academy of Economic Studies of Moldova, Republic of Moldova HINCU Veronica, Lecturer, Academy of Economic Studies of Moldova, Republic of Moldova CEBAN Svetlana, Lecturer, Academy of Economic Studies of Moldova, Republic of Moldova

Scientific committee

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GUJUMAN Lucia, PhD, Associate Professor, Academy of Economic Studies of Moldova, Republic of Moldova **TOACA Zinovia**, PhD, Associate Professor, Academy of Economic Studies of Moldova, Republic of Moldova **ZGUREANU Aureliu**, PhD, Associate Professor, Academy of Economic Studies of Moldova, Republic of Moldova **ANDRONATIEV Victor**, PhD, Associate Professor, Academy of Economic Studies of Moldova, Republic of Moldova

DOBRIANSKA Natalia, PhD, Professor, Odesa National Technological University, Ukraine **GEORGESCU Radu-Mircea**, PhD, Professor, Alexandru Ioan Cuza University of Iasi, Romania

CRISTESCU Marian-Pompiliu, PhD, Professor, Lucian Blaga University, Sibiu, Romania SHEPELEVA Olga, PhD, Associate Professor, Odesa National Technological University, Ukraine ZACESOVA Natalia, Habilitated Doctor, Professor, Cherkasy National University named after Bohdan Khmelnytsky, Ukraine

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LOZAN Victoria, PhD, lecturer, Academy of Economic Studies of Moldova, Republic of Moldova **VERES Cristina**, PhD, University of Medicine, Pharmacy, Science and Technology "George Emil Palade" Targu Mures, Romania

HIRBU Eduard, PhD, Associate Professor, Academy of Economic Studies of Moldova, Republic of Moldova **ORLOVA Dinara**, Habilitated Doctor, Professor, Financial University under the Government of the Russia Federation, Russia

SENKOV Valeriy, PhD, Associate Professor, Russian State University named after A.N. Kosygin, Russia **MACOVEI Anamaria-Geanina**, PhD, Associate Professor, Stefan cel Mare University of Suceava, Romania **COLESNICOVA Tatiana**, PhD, Associate Professor, Leading Scientific Researcher, Head of Department "Social Research and Standard of Living", Academy of Economic Studies of Moldova, Republic of Moldova **TURCAN Aurelia**, PhD, Associate Professor, Academy of Economic Studies of Moldova, Republic of Moldova **CERNEI Valeriu**, expert, CISA, CRISC, ITIL, Republic of Moldova

CONFERENCE SECTIONS

I	Emerging Technologies and Innovations in Cybersecurity	Student Hub, bldg. B
II	Innovative solutions for information security, data protection regulations, and compliance with international standards	Student Hub, bldg. B
III	Cyber Risk Management and the Economic Impact of Digital Security	Student Hub, bldg. B
IV	Digital transformation and security challenges in the economic, governmental, and educational sectors	Student Hub, bldg. B

SECTION I EMERGING TECHNOLOGIES AND INNOVATIONS IN CYBERSECURITY

Student Hub, bldg. B

Chair: ZGUREANU Aureliu, PhD, Associate Professor

Academy of Economic Studies of Moldova, Republic of Moldova

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CYBER FRAUD AND ARTIFICIAL INTELLIGENCE

RYBALCHENKO Liudmyla, PhD, University of Customs and Finance, Dnipro, Ukraine

FEATURES OF USING ARTIFICIAL INTELLIGENCE AS A DIGITAL TECHNOLOGY FOR ONLINE FRAUD

BALINA Irina, PhD, Slavic University of Moldova, Republic of Moldova

QUANTUM CRYPTOGRAPHY AND POST-QUANTUM SECURITY: CURRENT STATE, CHALLENGES, AND STRATEGIC DIRECTIONS

ZGUREANU Aureliu, PhD, ANDRONATIEV Victor, PhD Academy of Economic Studies of Moldova, Republic of Moldova

AVIATION CYBERINCIDENT HANDLING: PROACTIVE DEFENSE USING AI

NIKOLOV Atanas, RIDJALSKI George Rakovski National Defence College, Bulgaria

THE ROLE OF CYBERSECURITY INNOVATIONS TO PROTECT TOURIST DATA AND ENSURE SUSTAINABLE DEVELOPMENT OF THE INDUSTRY

SARKISIAN Ganna, PhD, Professor, DOBRIANSKA Natalia, PhD, Professor, SHEKERA Svitlana, PhD Odesa National University of Technology, Ukraine

SECTION II

INNOVATIVE SOLUTIONS FOR INFORMATION SECURITY, DATA PROTECTION REGULATIONS, AND COMPLIANCE WITH INTERNATIONAL STANDARDS

Student Hub, bldg. B

Chair: LOZAN Victoria, PhD, Lecturer

Academy of Economic Studies of Moldova, Republic of Moldova

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INTELLECTUAL PROPERTY IN THE DIGITAL AGE: TRANSFORMATION OF LEGAL REGULATION IN THE REPUBLIC OF MOLDOVA

GRISCIUC-BUCICA Svetlana, PhD, Free International University of Moldova, Lawyer's Office "Grisciuc-Bucica Svetlana", Republic of Moldova

ASSESSMENT OF SECURITY INCIDENTS IN ELECTRICAL ENERGY METERING SYSTEMS: UNAUTHORIZED ACCESS TO INTELLIGENT METERS

CONIUC Svetlana, PhD Student, RUSANOV Alexei Moldova State University, Republic of Moldova

CRYPTOGRAPHIC ALGORITHM BASED ON LAPLACE TRANSFORMATION

CERBU Olga, PhD, Moldova State University, Republic of Moldova TURCAN Aurica, PhD, Academy of Economic Studies of Moldova, Republic of Moldova

THE INTERSECTION OF PROGRAMMING AND DATA PROTECTION: SECURE DEVELOPMENT WITH JAVA AND PYTHON

TURCAN Aurica, PhD, Academy of Economic Studies of Moldova, Republic of Moldova COJOCARI Vladislav, Student, Academy of Economic Studies of Moldova, Republic of Moldova HANGAN Daniel, Student, Technical University of Munich, Germany

IMPLEMENTING ISO/IEC 27001 IN SOFTWARE DEVELOPMENT: THE ROLE OF HUMAN RESOURCES IN ENSURING INFORMATION SECURITY

GUJUMAN Lucia, PhD, Academy of Economic Studies of Moldova, Republic of Moldova

SECTION III

CYBER RISK MANAGEMENT AND THE ECONOMIC IMPACT OF DIGITAL SECURITY

Student Hub, bldg. B

Chair: OHRIMENCO Serghei, Habilitated Doctor, Professor

Academy of Economic Studies of Moldova, Republic of Moldova

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INTEGRATING CYBER RISK INTO OPERATIONAL RISK MANAGEMENT: STRATEGIES FOR MINIMIZING ECONOMIC LOSSES IN THE DIGITAL ERA

CAMINSCHI Olga, PhD Student, Academy of Economic Studies of Moldova, Republic of Moldova

CONCEPTUAL AND TECHNOLOGICAL PARTICULARITIES OF CYBER INSURANCE

LUCHIAN Ivan, PhD, GHERJAVCA Svetlana Moldova State University, Republic of Moldova

PSYCHOLOGICAL ASPECTS OF CYBERCRIME PREVENTION

BARBANEAGRA Oxana, PhD, Academy of Economic Studies of Moldova, Republic of Moldova

INVOLVING MANAGEMENT IN IDENTIFYING AND ASSESSING CYBER RISKS AT THE ORGANIZATION LEVEL

VRABIE Tincuta, PhD, "Dunărea de Jos" University of Galati, Romania

THE IMPACT AND CONSEQUENCES OF IGNORING THE INTEGRATION OF THE CYBERSECURITY STRATEGY INTO THE ORGANIZATION'S DEVELOPMENT STRATEGY

VRABIE Tincuta, PhD, "Dunărea de Jos" University of Galati, Romania

THE DIGITAL RISK

BRADU Nichita, IU International University of Applied Sciences, Germany OHRIMENCO Serghei, Habilitated Doctor, Academy of Economic Studies of Moldova, Republic of Moldova

ADAPTIVE MULTI-FACTOR AUTHENTICATION IN A DOCUMENT-CENTRIC SYSTEM

BELINSCHI Ghenadie, Academy of Economic Studies of Moldova, Republic of Moldova

MANAGING CYBER RISKS IN THE DIGITAL AGE: CHALLENGES FOR INFORMATION AND ECONOMIC SECURITY

TURCAN Aurica, PhD, Academy of Economic Studies of Moldova, Republic of Moldova

MODERN METHODS OF DETECTING AND COUNTERING PHISHING ATTACKS IN THE DIGITAL ENVIRONMENT

HABORETS Olha, PhD, RYBALCHENKO Lyudmyla

Donetsk State University of Internal Affairs, Ukraine

CYBERSECURITY AMONG USERS: PERCEPTIONS, KNOWLEDGE, AND REALITIES

HINCU Veronica, Academy of Economic Studies of Moldova, Republic of Moldova

THE PARTICULARITIES OF CYBER SECURITY RISK MANAGEMENT IN CRYPTOCURRENCY TRANSACTIONS

LUCHIAN Ivan, PhD, DONCEV Traian

Moldova State University, Popublic of Mo

Moldova State University, Republic of Moldova

ECONOMIC SECURITY ENSURING BY THE MATHEMATICAL MODELLING OF PRODUCTION FUNCTIONS AND FACTORS OF ECONOMIC GROWTH

PARSHYN Yurii, PhD, PARSHYNA Olena, PhD Engineering Educational and Scientific Institute of Zaporizhzhia National University, Ukraine

INFORMATION SECURITY ENSURING AT THE OBJECT OF CRITICAL INFRASTRUCTURE

PARSHYNA Olena, PhD, PARSHYNA Marharyta, PhD University of Customs and Finance, Dnipro, Ukraine

SECTION IV

DIGITAL TRANSFORMATION AND SECURITY CHALLENGES IN THE ECONOMIC, GOVERNMENTAL, AND EDUCATIONAL SECTORS

Student Hub, bldg. B

Chair: BARACTARI Anatolie, PhD, Associate Professor

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THE ROLE OF CROWDFUNDING IN STIMULATING INNOVATION AND ECONOMIC GROWTH IN MOLDOVA

SCUTARI Alexandr, DOROGAIA Irina, PhD

Private institution, Balkanika Finance LLC, Republic of Moldova

CYBER RISK ASSESSMENT IN EDUCATION

BOGDANOVA Violeta, PhD

"Ion CREANGĂ" State Pedagogical University, Republic of Moldova

POLITICAL ECONOMY ASPECTS OF THE SHADOW DIGITAL ECONOMY

ORLOVA Dinara, PhD, Financial University under the Government of Russian Federation, Russia OHRIMENCO Serghei, Habilitated Doctor, Academy of Economic Studies of Moldova, Republic of Moldova

INFORMATION SECURITY ASPECTS IN HIGHER EDUCATION

TAIROV Iskren, PhD, SHISHMANOV Krasimir, PhD, TSANOV Emil, PhD D. A. Tsenov Academy of Economics, Svishtov, Bulgaria

DIAGNOSING THE RISK EXPOSURE OF BULGARIAN ENTERPRISES WITH ONLINE SALES

IVANOVA Zoya, PhD, D. A. Tsenov Academy of Economics, Svishtov, Bulgaria

MODERN APPROACH OF FIREWALL IN LOCAL NETWORK

ANDRONATIEV Victor, PhD, ZGUREANU Aureliu, PhD

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ASSESSING MOLDOVA'S ECONOMIC DYNAMICS USING THE COBB-DOUGLAS PRODUCTION FUNCTION: ESTIMATION, VALIDATION AND FORECASTING

TOACA Zinovia, PhD, GUJUMAN Lucia, PhD, SOTROPA Iulian, Student Academy of Economic Studies of Moldova, Republic of Moldova

THE ROLE OF AI IN CREATING FALSE REALITIES TO MANIPULATE THE MASSES

LOZAN Victoria, PhD, Academy of Economic Studies of Moldova, Republic of Moldova COSTIN Ion, IT Engineer, Master Instructor, Vocational School from Soroca, Republic of Moldova

THE IMPACT OF ARTIFICIAL INTELLIGENCE, INCLUDING GENERATIVE INTELLIGENCE, ON THE ECONOMIC SECURITY OF ORGANIZATION

SENKOV Valerii, PhD, Russian State University named after A. N. Kosygin, Russia

INNOVATIVE IT TECHNOLOGIES IN EDUCATIONAL ACTIVITIES AND DIGITAL SECURITY

PUGACEVA Oliga, PhD, Gomel State University named after Francisk Skorina, Belarus

STRENGTHENING CYBERSECURITY FOR DIGITAL TRANSFORMATION OF MOLDOVA'S AGRICULTURE: CHALLENGES AND PROSPECTS

TUTUNARU Sergiu, PhD, BABIN Anatolie, Master Degree, researcher Academy of Economic Studies of Moldova, Republic of Moldova

THE EVOLUTION OF AUTOMATION AND ITS RISKS IN THE EASTERN EUROPEAN FINANCE SECTOR

MOLDOVAN Radu-Anton, CRISTESCU Marian Pompiliu, PhD Lucian Blaga University of Sibiu, Romania

DATA SECURITY AND ACCESS MANAGEMENT IN MICROSOFT TOOLS: EXCEL, POWER QUERY AND POWER BI

CAPATINA Valentina, PhD, MORARU Maria, TAPCOV Varvara Academy of Economic Studies of Moldova, Republic of Moldova

THE EFFECTS AND CHALLENGES OF COVID-19 ON DIGITAL TRANSFORMATIONS IN THE DEMOGRAPHIC AND ECONOMIC SECTOR

PARTACHI Ion, PhD, MIJA Simion, PhD
Academy of Economic Studies of Moldova, Republic of Moldova

LEADING TECHNOLOGICAL INNOVATIONS IN DIGITAL SECURITY

ČEKEREVAC Zoran, PhD, MEST, Serbia PRIGODA Lyudmila, PhD, ČEKEREVAC Petar

SECURING AI-DRIVEN TRANSFORMATION: MANAGING RISKS IN IT PROJECTS

ENACHE Bianca Elena, PhD Student, GEORGESCU Mircea Radu, PhD, Professor Faculty of Economics and Business Administration, Republic of Moldova

ARTIFICIAL INTELLIGENCE IN DIGITAL MARKETING: BETWEEN ECONOMIC EFFICIENCY AND CYBER RISKS

TURCAN Aurica, PhD, COBILEANSCHI Elvira, Student Academy of Economic Studies of Moldova, Republic of Moldova

DIGITAL TRANSFORMATIONS IN THE PUBLIC SECTOR OF RUSSIAN REGIONS AND CHALLENGES TO ENSURING SOCIAL JUSTICE

BAZHENOVA Elena, PhD, Southern Federal University, Russia BAZHENOV Sergey, PhD, Science Horizons Foundation, Russia

UNEVEN DIGITALIZATION ACROSS RUSSIAN REGIONS: ANALYSIS AND MEASUREMENT

ARKHIPOV Dmitry, BAZHENOVA Elena, PhD Southern Federal University, Russia

DIGITALIZATION PROCESSES IN KRASNODAR KRAI: A REVIEW BASED ON ANALYSIS OF POLICY AND REGULATORY DOCUMENTS

TAIROV Rai, Southern Federal University, Russia

DIGITAL CURRENCIES AS A TOOL OF GEO-ECONOMIC TECHNOLOGIE

KUZNETSOV Nikita, BAZHENOVA Elena, PhD Southern Federal University, Russia

TECHNOLOGICAL SECURITY AND THE CHALLENGES OF SAFEGUARDING RUSSIA'S TECHNOLOGICAL SOVEREIGNTY

BABANOV Andrey, PhD, Southern Federal University, Russia

REGULATORY ORDER IN THE CONTEXT OF STATE DIGITAL TRANSFORMATIONS

CHERNOBROVKINA Natalia, PhD, Southern Federal University, Russia

GEOSTRATEGY OF DIGITAL THREATS

ABROSIMOV Dmitry, PhD, BAZHENOV Sergey, PhD Southern Federal University, Russia

DIGITAL TRANSFORMATION AS A PERSPECTIVE BASED ON INTERACTION BETWEEN BUSINESS, SOCIETY, TECHNOLOGY AND CITIZENS

GEORGESCU Mircea, PhD, LUNGU Anca Elena Alexandru Ioan Cuza University of Iasi, Romania

THE ECONOMIC IMPACT OF ONLINE DISINFORMATION: CONSEQUENCES AND RISKS

KOLAR Olga, PhD Student, Sofia University "St. Kliment Ohridski", Bulgaria

TRANSFORMING PUBLIC ADMINISTRATION: TRENDS AND TRIALS IN EUROPEAN DIGITALIZATION

LUNGU Petrut, PhD Student, GEORGESCU Mircea, PhD Doctoral School of Economics and Business Administration, Romania

INTERNATIONAL EXPERIENCE IN THE DEVELOPMENT OF NATIONAL DIGITAL GOVERNMENT PLATFORMS

CIOBANU Mihail, PhD Student, National Institute for Economic Research, Academy of Economic Studies of Moldova, Republic of Moldova

MUSIC, TECHNOLOGY AND CULTURAL POLICY: NAVIGATING DIGITAL TRANSFORMATION IN THE ARTS SECTOR

IRAVA Teodora, PhD Student, GEORGESCU Radu Mircea, PhD Alexandru Ioan Cuza University of Iasi, Romania

DIGITAL TRANSFORMATIONS IN THE EDUCATION SECTOR TRIGGERED BY THE COVID-19 PANDEMIC

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CLOSING THE GAP: A COMPARATIVE STUDY OF BIG DATA AND CYBERSECURITY IN THE PUBLIC SECTORS OF MOLDOVA AND AUSTRIA

BARACTARI Anatolie, PhD, Academy of Economic Studies of Moldova, Republic of Moldova BARACTARI Anatolie, Student, Johannes Kepler University Linz, Austria

INFORMATIONAL AND PROCESSING CHALLENGES IN THE DEVELOPMENT OF DEMOGRAPHIC FORECASTS

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CRIMINAL DIMENSIONS OF THE SHADOW DIGITAL ECONOMY

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INTERNATIONAL EXPERIENCE OF USING COMPUTER AND GAME TECHNOLOGY TOOLS IN THE TOURISM BUSINESS

SHEPELEVA Olga, PhD, BOHDANOV Oleksandr, PhD, TKACHENKO Dmytro, PhD Odesa National University of Technology, Ukraine

INFORMATION SECURITY CHALLENGES IN THE USE OF DIGITAL TOOLS FOR DATA PROCESSING AND MANAGEMENT

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