



**UNIVERSITY OF NATIONAL AND WORLD ECONOMY**

*The Spirit Makes The Power*

**11<sup>TH</sup> INTERNATIONAL CONFERENCE ON APPLICATION OF  
INFORMATION AND COMMUNICATION TECHNOLOGY AND STATISTICS  
IN ECONOMY AND EDUCATION  
(ICAICTSEE – 2021)**

**November 25 – 26<sup>th</sup>, 2021**

**University of National and World Economy**

**Sofia, Bulgaria**

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# **ICAICTSEE-2021**

## **CONFERENCE PROGRAM**

**NOVEMBER 25<sup>TH</sup>, 2021**  
**10:00 AM – 10:30 AM (UTC+2)**

## **Conference Official Opening**

OPENING REMARKS – **PROF. DR. DIMITER VELEV**, ICAICTSEE-2021 CHAIR, UNWE

- WELCOME SPEECH 1 – **ASSOC. PROF. DR. MICHAEL MUSOV**, VICE-RECTOR FOR RESEARCH AND INTERNATIONAL AFFAIRS, UNIVERSITY OF NATIONAL AND WORLD ECONOMY (UNWE), BULGARIA.
- WELCOME SPEECH 2 – **ASSOC. PROF. DR. VENELIN BOSHNAKOV**, DEAN OF THE FACULTY OF APPLIED INFORMATICS AND STATISTICS, (UNWE), BULGARIA.
- WELCOME SPEECH 3 – **PROF. DR. KAMELIA STEFANOVA**, HEAD OF THE DEPARTMENT OF INFORMATION TECHNOLOGY AND COMMUNICATIONS, (UNWE), BULGARIA
- WELCOME SPEECH 4 – **ASSOC PROF. DR. VIDHYA S.**, SCHOOL OF ELECTRONICS ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY (VIT), INDIA
- WELCOME SPEECH 5 - **PROF. DR. MANAOLE LUCIAN**, RECTOR, ARTIFEX UNIVERSITY OF BUCHAREST, ROMANIA



**NOVEMBER 25<sup>TH</sup>, 2021**



**VIT<sup>®</sup>**

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Important Dates:

- Submission of Abstracts/Full Paper -  
17th November
- Submission of Final Camera Ready  
Papers - January 16th 2022
- ICAICTSEE-2021 Conference -  
November 25th - 26th, 2021



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**PANEL 1 : 10:30 – 13:00 (UTC+2)****CHAIRS:** PROF. DR. DIMITER VELEV (UNWE), PROF. DR. SIVAKUMAR R. (VIT)

PAPER	TITLE
VIT-01	<b>PULMONARY EMBOLISM DETECTION USING CONVOLUTED NEURAL NETWORKS</b> <b>Shubham Kumar, Tanuja Swathi Seeram, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-02	<b>ARTIFICIAL INTELLIGENCE BASED BREAST CANCER ANALYSIS TECHNIQUE</b> <b>Piyush Srichandan, Ayushi Tiwari, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-03	<b>COVID 19 DETECTION AND CLASSIFICATION USING MACHINE LEARNING</b> <b>Dipanjan Acharya, Krishna Prasad M, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-04	<b>BREAST CANCER DETECTION USING THERMOGRAPHY</b> <b>Ridita Garg, S.S Nithin Raja, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-05	<b>JOINT RECONSTRUCTION OF MRI - PET</b> <b>Ridita Garg, S.S Nithin Raja, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-06	<b>LOSSLESS MEDICAL IMAGE COMPRESSION USING INTEGER TRANSFORMS AND PREDICTIVE CODING TECHNIQUE</b> <b>Salem Gabre, Samuel Bekele, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-07	<b>INTEGRATING EFFICIENT MACHINE LEARNING STUDIES WITH FLUOROSCOPY</b> <b>Sreerag M V, Soumya Suresh, Prarthana, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-08	<b>APPLICATION OF DEEP LEARNING IN MAMMOGRAPHY</b> <b>Mayukh Mittal, Abhiramalakshmi S, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-09	<b>BRAIN TUMOR DETECTION TECHNIQUES</b> <b>Desta Yakob, Andualem Atnafu, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-010	<b>BREAST CANCER CLASSIFICATION USING CONVOLUTION NEURAL NETWORK</b> <b>Mansi Narade, Nitikaa Samundeeswari, Priyadharshini, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-011	<b>BONE CANCER/TUMOR DETECTION FROM X-RAY USING IMAGE PROCESSING</b> <b>Shishira P A, Shubhanki Sengupta, Mythili A</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-012	<b>A PORTABLE SELF-DIAGNOSTIC DEVICE FOR PRELIMINARY MONITORING OF LUNG HEALTH</b> <b>Shishira P A, Shubhanki Sengupta, Sasikumar K</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-013	<b>SMART MEDICAL CLINIC</b> <b>Barath Ram S., Niket Narayan, Muthu Raja S.</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India

**PANEL 2 - 13:30 – 15:30 (UTC + 2)****CHAIR:** PROF. DR. DIMITER VELEV (UNWE)

PAPER	TITLE
FA-03	<b>INFLUENCE OF THE EMOTIONAL VALUE OF THE ACADEMIC WORLD BRAND ON CONSUMER PREFERENCE</b> <b>Sergei Bajenov<sup>1</sup>, Elena Bajenova<sup>2</sup>, Dmitrii Abrosimov<sup>2</sup>, Natalia Chernobrovkina<sup>2</sup></b> <sup>1</sup> Science Horizons Foundation, Moscow, Russia <sup>2</sup> Southern Federal University, Rostov-on-Don, Russia
FA-05	<b>STATISTICS OF THE DAILY FUND OF TIME AS A TOOL FOR ANALYZING HUMAN DEVELOPMENT</b> <b>Nail S. Ishmukhametov</b> Bashkir State University, Ufa, Russia
FA-06	<b>ON THE ISSUE OF STATISTICS OF THE SOCIAL SUPPORT AND SOLIDARITY ECONOMY SECTOR</b> <b>Liliya Galimova<sup>1</sup>, Rozaliia Sharafullina<sup>2</sup></b> <sup>1</sup> Le Reso Solidar Association, Facilitator of social clauses, Rennes, France <sup>2</sup> Bashkir State University, Ufa, Russia
FA-09	<b>METAVERSES AND BLOCKCHAIN AS THE FUTURE OF DIGITAL ECONOMY</b> <b>Konstantin Semenov</b> Bashkir State University, Ufa, Russia
FA-07	<b>MAPPING SUSTAINABILITY RISK ON UPSTREAM SUGARCANE SUPPLY CHAIN NETWORK</b> <b>Nina Aini Mahbubah<sup>1</sup>, Abdul Muid<sup>2</sup></b> <sup>1</sup> Engineering Faculty, Universitas Muhammadiyah Gresik, Gresik, Indonesia <sup>2</sup> Engineering Faculty, Universitas Negeri Malang, Malang, Indonesia
FA-08	<b>APPLICATION OF STRUCTURAL EQUATION MODELING AND NET PROMOTER SCORE FOR ANALYSIS THE EFFECT OF THE SERVICE QUALITY AND DIGITAL LOYALTY PROGRAMS ON TOURIST SATISFACTION AND LOYALTY DURING THE COVID-19 PANDEMIC</b> <b>Ellisya Anandya<sup>1</sup>, Aisyah Larasati<sup>1</sup>, Abdul Muid<sup>1</sup>, Nina Aini Mahbubah<sup>2</sup></b> <sup>1</sup> Faculty of Engineering, Universitas Negeri Malang Malang, Indonesia <sup>2</sup> Universitas Muhammadiyah Gresik, Gresik, Indonesia
FA-18	<b>OBJECTIVE DIFFICULTIES IN EVALUATING "COVID" STATISTICS</b> <b>Olga V. Pugacheva</b> Francisk Skorina Gomel State University, Gomel, Belarus
FA-20	<b>THE ROLE AND PLACE OF TIME MANAGEMENT IN THE MECHANISM OF ECONOMIC SECURITY MANAGEMENT OF THE ENTERPRISE</b> <b>Nataliia Zachosova, Dmytro Kutsenko</b> Bohdan Khmelnytsky National University of Cherkasy, Cherkasy, Ukraine

**PANEL 3 - 16:00 – 18:00 (UTC + 2)****CHAIR:** PROF. DR. DIMITER VELEV (UNWE)

<b>PAPER</b>	<b>TITLE</b>
FA-21	<b>DIGITAL COMPONENTS OF DEVELOPING A MODERN BUSINESS MODEL IN AN INNOVATIVE ECONOMY</b> <b>Tetiana Bochulia</b> State Biotechnological University, Kharkiv, Ukraine
FA-16	<b>INTELLIGENT SEARCH OF CROSS-MEDIA CONTENT</b> <b>Stanislav Miroshnyk, Igor Grebennik</b> Kharkiv National University of Radio Electronics, Kharkiv, Ukraine
FA-23	<b>NEW PARADIGMS OF ECONOMIC DEVELOPMENT IN THE CONTEXT OF THE EPIDEMIOLOGICAL CRISIS</b> <b>Crustian Marian Barbu</b> ARTIFEX University of Bucharest, Romania
FA-24	<b>QUALITY MANAGEMENT IN UNIVERSITY EDUCATION IN THE CONTEXT OF ONLINE EDUCATION</b> <b>Alexandru Lucian Manole</b> ARTIFEX University of Bucharest, Romania
FA-25	<b>THE SPATIO-TEMPORAL CONCEPTION IN THE CONTEXT OF A NEW PARADIGM OF THE LABOR MARKET</b> <b>Ghenadie Ciobanu,</b> ARTIFEX University of Bucharest, Romania
FA-26	<b>OCCUPATIONAL MOBILITY IN EU MEMBER STATES IN THE CONTEXT OF THE CHALLENGES OF THE PANDEMIC CRISIS</b> <b>Ghenadie Ciobanu, Elena Bugudui</b> ARTIFEX University of Bucharest, Romania
FA-27	<b>ONLINE MARKETING IN THE NEW CONDITION OF EVOLUTION AND OF THE PANDEMIC CRISIS</b> <b>Catalin Deatcu</b> ARTIFEX University of Bucharest, Romania
FA-04	<b>DIFFICULTIES IN ORGANIZING SME BUSINESS DURING COVID-19 MEASURES AND RESTRICTIONS IN THE REPUBLIC OF SERBIA</b> <b>Ivana Marinovic Matovic<sup>1</sup>, Milos Pavlovic<sup>2,3</sup></b> <sup>1</sup> PUC Parking Service, Nis, Serbia <sup>2</sup> Belgrade Business and Arts Academy of Applied Studies, Belgrade, Serbia <sup>3</sup> University of Pristina, Faculty of Economics, Kosovska Mitrovica, Serbia
FA-17	<b>ASSESSING NURSES' EMOTIONAL EXHAUSTION FROM A REGIONAL TEACHING HOSPITAL IN TAIWAN BY A LONGITUDINAL STUDY</b> <b>Yu-Ning Chao<sup>1</sup>, Chih-Hsuan Huang<sup>2</sup>, Yii-Ching Lee<sup>3</sup>, Hsin-Hung Wu<sup>1</sup></b> <sup>1</sup> Depart. of Business Administration, National Changhua University of Education, Changhua, Taiwan <sup>2</sup> School of Business Administration, Hubei University of Economics, Hubei, China <sup>3</sup> Department of Health Business Administration, Hung Kuang University, Taichung City, Taiwan

**NOVEMBER 26<sup>TH</sup>, 2021**

**10:00 AM – 10:30 AM (UTC+2)**

**PANEL 4 - 10:00 PM – 12:30 (UTC + 2)**

**CHAIR: PROF. DR. SERGHEI OHRIMENKO (AESM)**

<b>PAPER</b>	<b>TITLE</b>
FA-10	<b>ANALYSIS OF CYBER ATTACK SCENARIOS</b> <b>Serghei Ohrimenco, Grigori Borta</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-01	<b>PROCESSES OF ADAPTATION OF DIGITAL INNOVATIVE CONCEPTS OF "SMART VILLAGE" IN R. MOLDOVA</b> <b>Anatolie Babin, Sergiu Tutunaru, Ion Covalenco</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-02	<b>IMPACT OF INDUSTRIES ON THE INTENSIVE APPLICATION OF EU AND REPUBLIC OF MOLDOVA INTELLECTUAL PROPERTY RIGHTS</b> <b>Alexandru Gribincea</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-11	<b>ASSESSMENT OF CONSUMER SATISFACTION OF FINANCIAL-BANKING SERVICES IN THE MOLDOVA</b> <b>Larisa Mistrean</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-12	<b>THE IMPACT OF GENDER INEQUALITIES IN IT AND STEM FOR THE SUSTAINABILITY OF NATIONAL SOCIAL - ECONOMIC SECURITY IN THE CONTEXT OF THE DIGITAL ECONOMY</b> <b>Diana Ignatiuc</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-13	<b>NATIONAL AND INTERNATIONAL PRACTICES OF INNOVATIVE SME FINANCING</b> <b>Dascalu Daniela,</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-14	<b>TITLE: CHALLENGES OF INDUSTRY 4.0: IMPACT FOR THE SME SECTOR OF THE REPUBLIC OF MOLDOVA</b> <b>A.Cotelnic, I. Dorogaia</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-15	<b>BARRIERS AND SOLUTIONS TO THE INTEGRATION OF DIGITAL TECHNOLOGIES IN SCHOOLS: A CASE STUDY OF SCHOOL MANAGERS IN MOLDOVA</b> <b>Adrian Andronic</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-19	<b>STATE CYBERSECURITY GOVERNING PRINCIPLES AND STRUCTURES</b> <b>Valeriu Cernei</b> Academy of Economic Studies of Moldova, Chisinau, Moldova
FA-22	<b>THE ROLE OF INFORMATION TECHNOLOGY IN AUDITING FINANCIAL STATEMENTS IN MODERN CONDITIONS</b> <b>Liudmila Lapițkaia</b> Academy of Economic Studies of Moldova, Chisinau, Moldova

**PANEL 5 - 13:00 PM – 15:30 (UTC + 2)****CHAIRS: CHAIR:** PROF. DR. DIMITER VELEV (UNWE)

<b>PAPER</b>	<b>TITLE</b>
BA-02	<b>SIMULATION MODELING IN THE TEACHING OF MATHEMATICS</b> <b>Svetlana Vasileva</b> HSNSM, Dobrich, Bulgaria
BA-03	<b>ECONOMIC GROWTH RATE OF THE ENTERPRISE (ANALYSIS METHODOLOGY)</b> <b>Rositsa Ivanova</b> University of National and World Economy, Sofia, Bulgaria
BA-04	<b>CLASSIFICATION, COMPARISON AND CRITERIA FOR CHOOSING NOSQL DATABASES</b> <b>Mariana Kovacheva</b> University of National and World Economy, Sofia, Bulgaria
BA-05	<b>CHALLENGES FOR THE ACCOUNTANCY AND SUPERVISION OF INSURERS ACTIVITY</b> <b>Maia Natchkova</b> University of National and World Economy, Sofia, Bulgaria
BA-06	<b>NEW REQUIREMENTS THAT INSURERS FACE IN A SITUATION OF GLOBAL HEALTH CRISIS</b> <b>Simeon Grigorov</b> University of National and World Economy, Sofia, Bulgaria
BA-07	<b>DATA QUALITY SCORING MODEL FOR INCREASING THE ORGANIZATION EFFICIENCY</b> <b>Daniel Dechev</b> University of National and World Economy, Sofia, Bulgaria
BA-08	<b>REHEARSING SCENARIOS FOR DEVELOPING COURSES DESIGNED FOR THE DIGITAL AGE</b> <b>Vanya Slantcheva-Baneva</b> Management, Trade and Marketing College, Sofia, Bulgaria
BA-09	<b>APPLICABILITY OF ASP.NET FRAMEWORKS FOR DEVELOPING BUSINESS INFORMATION SYSTEMS</b> <b>Monika Tsaneva</b> University of National and World Economy, Sofia, Bulgaria
BA-10	<b>CHARACTERISTICS AND PREPARATION OF DATASETS FOR MACHINE LEARNING ALGORITHMS</b> <b>Genka Miteva, Alexandrina Murdjeva</b> University of National and World Economy, Sofia, Bulgaria
BA-11	<b>ORGANIZATION OF DATA IN DATA LAKE – REAL-LIFE PRACTICE</b> <b>Eva Karkalikova, Alexandrina Murdjeva</b> University of National and World Economy, Sofia, Bulgaria



**PANEL 6 - 16:00 PM – 18:30 (UTC + 2)****CHAIRS: CHAIR:** PROF. DR. DIMITER VELEV (UNWE)

<b>PAPER</b>	<b>TITLE</b>
BA-12	<b>EMPIRICAL STUDY OF DIGITAL SERVICES IN MUNICIPALITIES</b> <b>Katia Kirilova</b> University of National and World Economy, Sofia, Bulgaria
BA-13	<b>CHALLENGES FOR THE ELECTRONIC MANAGEMENT OF MUNICIPALITIES IN THE SOUTHWESTERN REGION</b> <b>Katia Kirilova</b> University of National and World Economy, Sofia, Bulgaria
BA-14	<b>DEVELOPMENT OF CYBERSECURITY POLICIES IN HIGHER EDUCATION INSTITUTIONS</b> <b>Rosen Kirilov</b> <b>UNIVERSITY OF NATIONAL AND WORLD ECONOMY, SOFIA, BULGARIA</b>
BA-15	<b>APPROACH FOR ANALYSIS AND COMPARISON OF SEARCH QUERY RESULTS IN WEB PUBLICATIONS</b> <b>Plamen Milev</b> University of National and World Economy, Sofia, Bulgaria
BA-16	<b>OPPORTUNITIES FOR DEVELOPMENT OF AN EXPERIMENTAL PROTOTYPE FOR STRUCTURING OF DATA IN WEB-BASED INFORMATION SYSTEMS</b> <b>Yavor Tabov</b> University of National and World Economy, Sofia, Bulgaria
BA-17	<b>APPROACHES TO HIGHER SECURITY LEVEL FOR HADOOP ENVIRONMENT</b> <b>Ivona Velkova</b> University of National and World Economy, Sofia, Bulgaria
BA-18	<b>THE MOONSHOT PHENOMENON IN THE BUSINESS WORLD</b> <b>Kiril Dimitrov</b> University of National and World Economy, Sofia, Bulgaria
BA-16	<b>BIG DATA IN ACCOUNTING - SETTLEMENTS WITH CLIENTS</b> <b>Vanya Lazarova</b> University of National and World Economy, Sofia, Bulgaria
BA-17	<b>MATURE MATURITY MODEL FOR EVALUATION OF CYBERSECURITY</b> <b>Nedko Tagarev</b> University of National and World Economy, Sofia, Bulgaria
BA-01	<b>PRACTICAL ASPECTS OF USING HDFS DATA IN SQL SERVER 2019 BIG DATA CLUSTERS</b> <b>Mitko Radoev</b> University of National and World Economy, Sofia, Bulgaria

# Important Notes

The ICAICTSEE-2021 will be conducted fully online through the **Microsoft TEAMS** software.

You must sign-up for an account (free): <https://www.microsoft.com/en-us/microsoft-365/microsoft-teams/group-chat-software>

The Links to the conference:

## **ICAICTSEE-2021 official opening (25-11-2021)**

[https://teams.microsoft.com/l/meetup-join/19%3aDnbb4DgcyxDtCKXDySS8WsKFxy4IjjneaB1\\_mmKRy4M1%40thread.tacv2/1637738884402?context=%7b%22Tid%22%3a%22ebc7c086-c350-4453-911a-3b740f8d6dad%22%2c%22Oid%22%3a%22a0a68cb6-43fe-497f-a3bc-1f0e957cf8f3%22%7d](https://teams.microsoft.com/l/meetup-join/19%3aDnbb4DgcyxDtCKXDySS8WsKFxy4IjjneaB1_mmKRy4M1%40thread.tacv2/1637738884402?context=%7b%22Tid%22%3a%22ebc7c086-c350-4453-911a-3b740f8d6dad%22%2c%22Oid%22%3a%22a0a68cb6-43fe-497f-a3bc-1f0e957cf8f3%22%7d)

## **Panels: 1, 2, 3 (25-11-2021)**

[https://teams.microsoft.com/l/meetup-join/19%3aDnbb4DgcyxDtCKXDySS8WsKFxy4IjjneaB1\\_mmKRy4M1%40thread.tacv2/1637738884402?context=%7b%22Tid%22%3a%22ebc7c086-c350-4453-911a-3b740f8d6dad%22%2c%22Oid%22%3a%22a0a68cb6-43fe-497f-a3bc-1f0e957cf8f3%22%7d](https://teams.microsoft.com/l/meetup-join/19%3aDnbb4DgcyxDtCKXDySS8WsKFxy4IjjneaB1_mmKRy4M1%40thread.tacv2/1637738884402?context=%7b%22Tid%22%3a%22ebc7c086-c350-4453-911a-3b740f8d6dad%22%2c%22Oid%22%3a%22a0a68cb6-43fe-497f-a3bc-1f0e957cf8f3%22%7d)

## **Panels: 4, 5, 6 (26-11-2021)**

[https://teams.microsoft.com/l/meetup-join/19%3aDnbb4DgcyxDtCKXDySS8WsKFxy4IjjneaB1\\_mmKRy4M1%40thread.tacv2/1637739003374?context=%7b%22Tid%22%3a%22ebc7c086-c350-4453-911a-3b740f8d6dad%22%2c%22Oid%22%3a%22a0a68cb6-43fe-497f-a3bc-1f0e957cf8f3%22%7d](https://teams.microsoft.com/l/meetup-join/19%3aDnbb4DgcyxDtCKXDySS8WsKFxy4IjjneaB1_mmKRy4M1%40thread.tacv2/1637739003374?context=%7b%22Tid%22%3a%22ebc7c086-c350-4453-911a-3b740f8d6dad%22%2c%22Oid%22%3a%22a0a68cb6-43fe-497f-a3bc-1f0e957cf8f3%22%7d)

## **For Help:**

[https://teams.microsoft.com/l/team/19%3aDnbb4DgcyxDtCKXDySS8WsKFxy4IjjneaB1\\_mmKRy4M1%40thread.tacv2/conversations?groupId=a7d38b64-ec97-4d19-bda9-a5c6aa027a0b&tenantId=ebc7c086-c350-4453-911a-3b740f8d6dad](https://teams.microsoft.com/l/team/19%3aDnbb4DgcyxDtCKXDySS8WsKFxy4IjjneaB1_mmKRy4M1%40thread.tacv2/conversations?groupId=a7d38b64-ec97-4d19-bda9-a5c6aa027a0b&tenantId=ebc7c086-c350-4453-911a-3b740f8d6dad)