



**UNIVERSITY OF NATIONAL AND WORLD ECONOMY**

*The Spirit Makes The Power*

**12<sup>TH</sup> INTERNATIONAL CONFERENCE ON APPLICATION OF  
INFORMATION AND COMMUNICATION TECHNOLOGY AND STATISTICS  
IN ECONOMY AND EDUCATION  
(ICAICTSEE – 2022)**

**December 2 – 3<sup>rd</sup>, 2022**

**University of National and World Economy**

**Sofia, Bulgaria**

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

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# **ICAICTSEE-2022**

## **CONFERENCE PROGRAM**

**DECEMBER 2<sup>ND</sup>, 2022**  
**11:30 AM – 11:50 AM EEST (UTC+2)**

## **Conference Official Opening**

OPENING REMARKS – **PROF. DR. DIMITER VELEV**, ICAICTSEE-2022 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 – **DR. SIVANANTHAM S**, DEAN, SCHOOL OF ELECTRONICS ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY (VIT), VELLORE, INDIA.
- WELCOME SPEECH 3 – **ASSOC PROF. DR. VIDHYA S.**, SCHOOL OF ELECTRONICS ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY (VIT), VELLORE, INDIA.



**DECEMBER 2<sup>ND</sup>, 2022**



**University of National and World Economy (UNWE), Sofia, Bulgaria**  
**School of Electronics Engineering, Vellore Institute of Technology, Vellore, IN**

*Invites you to*

**International Conference on Application of Information  
and Communication Technology and Statistics in  
Economy and Education**

**ICAICTSEE - 2022**

**VIRTUAL CONFERENCE ON  
RECENT TRENDS IN  
BIOMEDICAL TECHNOLOGY**

**DECEMBER 2 -3, 2022**

**MS TEAMS**

**Early bird registration: Nov 27 2022**

**Important Dates:**

Submission of Abstract/Full Paper: Nov 24 2022

Acceptance Notification: Nov 26 2022

Submission of Camera Ready Paper: Jan 10 2023

ICAICTSEE-2022 Conference Dec 2 -3, 2022



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**PANEL 1 : 12:00 – 14:00 EEST (UTC+2)****CHAIRS:** PROF. VIDHYA S AND PROF. MYTHILI A. (VIT) & PROF. DR. DIMITER VELEV (UNWE)

<b>PAPER</b>	<b>TITLE</b>
VIT-01	<b>DC-DC CONVERTER FOR SMART WATCHES</b> <b>Priyanka A, SivaKumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-02	<b>CRITICAL ANALYSIS OF BIOSENSORS USED FOR DETECTION OF HEART SOUND</b> <b>Hemanth Asipalli, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-03	<b>REGENERATIVE SKIN NANOTECHNOLOGY: CURRENT CHALLENGES IN THE FIELD OF TISSUE ENGINEERING</b> <b>Bommididi Paavan Karhtik, SivaKumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-04	<b>CRITICAL ANALYSIS OF IMPLANTABLE SENSOR FOR CONTINUOUS GLUCOSE MONITORING</b> <b>Harshit Poddar</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-05	<b>MICROCONTROLLER-BASED HEART RATE MONITOR SYSTEM</b> <b>Jaswanth B, SivaKumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-06	<b>PH SENSORS FOR BIOMEDICAL APPLICATIONS</b> <b>Rashi Mahajan, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-07	<b>LATERAL FLOW ASSAYS IN WOMEN'S HEALTHCARE</b> <b>Aarushi Sultania, Keerthna Rajesh, Snigdha Priyadarshini</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-08	<b>METHODS OF LUNG SEGMENTATION ON COMPUTED TOMOGRAPHY IMAGE FOR THE DIAGNOSIS OF LUNG CANCER</b> <b>Mathumetha P, Sivakumar R, Ananthakrishna Chitanpalli</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-09	<b>DESIGN AND DEVELOPMENT OF FLUID INDICATION SYSTEM FOR IV BOTTLES USING BLUETOOTH</b> <b>Swarubini PJ, Sasikumar K</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-010	<b>COMPARATIVE ANALYSIS OF SEGMENTATION METHODS FOR DETECTION OF BONE CANCER</b> <b>Kanimozhi S, Sivakumar R, Ananthakrishna Chitanpalli</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-011	<b>ECG ANALYSIS AND ABNORMALITY DETECTION USING WAVELET TRANSFORM</b> <b>Preethika Chindepalli, Vidhya. S</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-012	<b>FINITE ELEMENT ANALYSIS OF THE ORTHOGONAL CUTTING OPERATIONS: A REVIEW</b> <b>Hemanth Kumar J</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India

**PANEL 2 - 14:00 – 16:00 (UTC + 2)****CHAIRS:** PROF.SHARMILA N AND PROF.JEEVA JB (VIT) & PROF. DR. DIMITER VELEV (UNWE)

PAPER	TITLE
VIT-13	<b>COMPARING DIFFERENT MACHINE LEARNING APPROACHES THAT PREDICT HEART DISEASES</b> <b>Kanishka S, Soorya Prakash K, Vidhya S</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-14	<b>PREDICTION OF KNEE ROM ANGLES FOR INJURY PREVENTION IN ATHLETES</b> <b>Jithesh R B</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-15	<b>NOVEL IOT-BASED IMPLEMENTATION OF PILL MONITORING SYSTEM</b> <b>Gayathri Udayaprakash, Indrayudd Roy Chowdhury</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-16	<b>COMPARATIVE ANALYSIS OF LOW POWER LOGIC WITH FPGA IN MEDICAL IMAGE PROCESSING</b> <b>Prabhu R, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-17	<b>APPLICATION OF GENERATIVE ADVERSARIAL NETWORKS FOR FACE RECONSTRUCTION AND MEDICAL IMAGING</b> <b>Sadeena Sabnam, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-18	<b>STUMP PRESSURE MONITORING FOR LOWER BODY PROSTHESIS</b> <b>Vikneshvar KS, Sasikumar Krishnan, and Sharmila Nageswaran</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-19	<b>REVIEW OF BIOSENSORS USED FOR DETECTION OF CANCER</b> <b>Sriramappagari Nikhilesh Anurag, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-20	<b>REVIEW ON OPTICAL BASED NON INVASIVE GLUCOMETER WITH IOT</b> <b>Yash Gupta, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-21	<b>ANALOG, COMPACT AND ECONOMICAL SOLUTION FOR THE COMPENSATION OF IMPLANTABLE PIEZORESISTIVE BLOOD PRESSURE SENSORS FOR WIRELESS MEDICAL MONITORING - REVIEW</b> <b>Ramanathan S, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-22	<b>STUDY OF STRESS DETECTION USING GSR SENSOR</b> <b>Saravanakkumaran.C, Sivakumar R</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-23	<b>FACE EMOTION RECOGNITION USING DEEP LEARNING</b> <b>Ann Cherian, Mithun T, JB.Jeeva</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-24	<b>LANE DETECTION FOR SELF DRIVING CARS</b> <b>Vinit Juneja, Akshaj Gupta, Sonakshi Singh</b> Vellore Institute of Technology, Vellore, Tamil Nadu, India

**PANEL 3 - 16:00 – 17:30 PM EEST (UTC + 2)****CHAIR:** PROF. DR. SERGHEI OHRIMENKO (AESM)

<b>PAPER</b>	<b>TITLE</b>
FA-01	<b>THREATS MODEL FOR THE SECURITY OF PERSONAL DATA DURING THEIR PROCESSING</b> <b>Serghei Ohrimenci, Svetlana Acapita</b> Academy of Economic Studies of Moldova
FA-02	<b>SOME ASPECTS OF TRANSFORMATION OF THE INVESTMENT POLICY OF THE REPUBLIC OF MOLDOVA UNDER THE PANDEMIC CONDITIONS</b> <b>Serghei Petighin</b> Academy of Economic Studies of Moldova
FA-03	<b>CYBERSOCIALIZATION OF YOUTH: CHALLENGES AND RISKS OF DIGITAL EDUCATION (ON THE EXAMPLE OF THE REPUBLIC OF MOLDOVA)</b> <b>Irina Vitalieвна Balina</b> Slavic University in the Republic of Moldova, Moldova
FA-04	<b>ABOUT SOME APPROACHES TO TEACHING INFORMATION SECURITY IN HIGHER EDUCATION</b> <b>Liubomir Chiriac , Violeta Bogdanova</b> UST/USPC, Chisinau, Republic of Moldova
BA-10	<b>SPECTRAL ANALYSIS THE TENSION SIGNAL OF ELECTRONIC SPHYGMOMANOMETER</b> <b>Lubomir H. Lahtchev</b> Institute of Robotics, Bulgarian Academy of Sciences, Bulgaria
BA-05	<b>POST-EMPLOYMENT DEFINED BENEFIT PLANS</b> <b>Rositsa Ivanova</b> University of National and World Economy, Sofia, Bulgaria
BA-11	<b>TRIPLE DILEMMA IN IMPLEMENTATION OF IT WITH AN EXAMPLE IN CYBERSECURITY</b> <b>Nedko Tagarev</b> University of National and World Economy, Sofia, Bulgaria
BA-12	<b>MODERNIZATION OF E-REGISTERS AND REGISTRATION PROCEDURES OF THE BULGARIAN E- GOVERNMENT</b> <b>Svetoslav Spasov</b> University of National and World Economy, Sofia, Bulgaria
BA-04	<b>ACCOUNTING POLICY OF OF PENSION INSURANCE COMPANIES IN THE CONTEXT OF CRISIS</b> <b>Maia Natchkova</b> University of National and World Economy, Sofia, Bulgaria

## **DECEMBER 3<sup>RD</sup>, 2022**

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

**CHAIR:** PROF. DR. DIMITER VELEV (UNWE)

<b>PAPER</b>	<b>TITLE</b>
BA-01	<b>INTEGRATED APPROACH IN THE TRAINING OF RELATIONAL DATABASES</b> <b>Svetlana Vasileva, Georgi Georgiev, Alihan Femi</b> HSNSM, Dobrich, Bulgaria
BA-02	<b>TECHNICAL RESOURCES TO ASSIST VISUALLY IMPAIRED PEOPLE</b> <b>Elena Filipova</b> University of National and World Economy, Sofia, Bulgaria
BA-03	<b>POSSIBILITIES TO INTEGRATE TECHNICAL RESOURCES IN A WEB APPLICATION TO ASSIST VISUALLY IMPAIRED PEOPLE</b> <b>Elena Filipova</b> University of National and World Economy, Sofia, Bulgaria
BA-06	<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-07	<b>DESIGN OF METADATA DATABASE FOR AN IoT DEVICES OUTCOME VALUES</b> <b>Alexander Tanev</b> University of National and World Economy, Sofia, Bulgaria
BA-08	<b>GENERIC DESIGN OF AN INFORMATION SYSTEM FOR AN ACTUAL AND SIMULATED VALUES OF IoT DEVICES</b> <b>Alexander Tanev</b> University of National and World Economy, Sofia, Bulgaria
BA-09	<b>ORGANIZATION AND IMPLEMENTATION OF ACCESS CONTROL IN BUSINESS APPLICATIONS</b> <b>Monika Tsaneva</b> University of National and World Economy, Sofia, Bulgaria

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

<b>PAPER</b>	<b>TITLE</b>
BA-14	<b>INFORMATION ACTIVITY FOR THE PROVISION OF CLASSIFIED INFORMATION IN THE ORGANIZATION</b> <b>Veselina Aleksandrova, Milena Ivanova, Violeta Vasileva</b> G. S. Rakovski National Defence College, Bulgaria
BA-15	<b>INFORMATION TECHNOLOGIES FOR ANALYZING THE CYBERSECURITY OF THE ORGANIZATION'S INFORMATION INFRASTRUCTURE</b> <b>Veselina Aleksandrova, Violeta Vasileva</b> G. S. Rakovski National Defence College, Bulgaria
BA-16	<b>CHALLENGES IN CHOOSING THE TYPE OF INTRUSION DETECTION AND PREVENTION SYSTEM TO INCREASE THE LEVEL OF CYBERSECURITY IN THE ORGANIZATION</b> <b>Veselina Aleksandrova, Ivo Tasev, Violeta Vasileva</b> G. S. Rakovski National Defence College, Bulgaria
BA-17	<b>ANTI-CRISIS MANAGEMENT IN CYBERSECURITY</b> <b>Noncho Dimitrov</b> University of National and World Economy, Sofia, Bulgaria
BA-18	<b>DIGITAL IDENTITY FOR EGOVERNMENT</b> <b>Noncho Dimitrov</b> University of National and World Economy, Sofia, Bulgaria
BA-19	<b>RISK MANAGEMENT IN CYBERSECURITY PROJECTS</b> <b>Yuri Tsenkov</b> University of National and World Economy, Sofia, Bulgaria
BA-20	<b>INCIDENT MANAGEMENT IN CYBER SECURITY PROJECTS</b> <b>Catalin Deatcu</b> <b>Yuri Tsenkov</b> University of National and World Economy, Sofia, Bulgaria



**PANEL 6 - 15:00 PM – 17:30 PM EEST (UTC + 2)****CHAIR:** ASSOC. PROF. DR. PLAMEN MILEV (UNWE)

<b>PAPER</b>	<b>TITLE</b>
BA-21	<b>IMPACT OF COVID-19 CRISIS ON DEVELOPMENT OF DIGITAL SERVICES IN BULGARIA</b> <b>Plamen Milev</b> University of National and World Economy, Sofia, Bulgaria
BA-22	<b>CYBERSECURITY ARCHITECTURE OF MODERN ORGANIZATIONS</b> <b>Rosen Kirilov</b> University of National and World Economy, Sofia, Bulgaria
BA-23	<b>IMPLEMENTATION AND USE OF SIEM PLATFORMS</b> <b>Rosen Kirilov</b> University of National and World Economy, Sofia, Bulgaria
BA-24	<b>COMPARATIVE ANALYSIS IN THE DEVELOPMENT OF DIGITAL SERVICES IN BULGARIA, GREECE AND ROMANIA</b> <b>Katia Kirilova</b> University of National and World Economy, Sofia, Bulgaria
BA-25	<b>CONTEMPORARY PROBLEMS OF SCHOOL EDUCATION IN INFORMATION TECHNOLOGY</b> <b>Katia Kirilova</b> University of National and World Economy, Sofia, Bulgaria
BA-26	<b>APPROACHES FOR PARSING OF PAGES IN WEB BASED INFORMATION SYSTEMS</b> <b>Yavor Tabov</b> University of National and World Economy, Sofia, Bulgaria
BA-27	<b>TRENDS IN AI MODELS FOR IMAGE GENERATION</b> <b>Bozhidar Bahov</b> University of National and World Economy, Sofia, Bulgaria
BA-28	<b>HOW INFORMATION TECHNOLOGY INFLUENCE STUDENT ATTENDANCE AND PRODUCTIVITY</b> <b>James Osondu</b> Faculty of Economics and Business Administration, Sofia University "St. Kliment Ohridski", Bulgaria
BA-29	<b>FACTORS AFFECTING STUDENT ATTENDANCE</b> <b>James Osondu</b> Faculty of Economics and Business Administration, Sofia University "St. Kliment Ohridski", Bulgaria
BA-30	<b>DEVELOPMENT OF THE NETWORK OF HIGHER EDUCATION INSTITUTIONS ACCORDING TO THE NEEDS OF THE REGIONS</b> <b>Gergana Kirilova</b> University of National and World Economy, Sofia, Bulgaria
BA-31	<b>OPPORTUNITIES TO IMPROVE THE GRADUATE SCHOOL APPLICATION PROCESS</b> <b>Gergana Kirilova</b> University of National and World Economy, Sofia, Bulgaria
FA-05	<b>OPPORTUNITIES TO DEVELOP DIGITAL FINANCIAL SERVICES</b> <b>Dalamagkas Ioannis</b> University of Thessaly, Greece
	<b>END OF CONFERENCE</b>

# Important Notes

The ICAICTSEE-2022 will be conducted fully online through the **Microsoft TEAMS** software.

The Link to the ICAICTSEE-2022 conference:

[https://teams.microsoft.com/l/team/19%3aTE-\\_EBQgkRdPcCWTR0-rz-5pyU3c9-DpOxQ028r9yXk1%40thread.tacv2/conversations?groupId=27738bef-1182-4229-9972-e7d65e3cba0e&tenantId=ebc7c086-c350-4453-911a-3b740f8d6dad](https://teams.microsoft.com/l/team/19%3aTE-_EBQgkRdPcCWTR0-rz-5pyU3c9-DpOxQ028r9yXk1%40thread.tacv2/conversations?groupId=27738bef-1182-4229-9972-e7d65e3cba0e&tenantId=ebc7c086-c350-4453-911a-3b740f8d6dad)