



UNIVERSITY OF NATIONAL AND WORLD ECONOMY

The Spirit Makes The Power

**10TH INTERNATIONAL CONFERENCE ON APPLICATION OF
INFORMATION AND COMMUNICATION TECHNOLOGY AND STATISTICS
IN ECONOMY AND EDUCATION
(ICAICTSEE – 2020)**

November 27 – 28th, 2020

University of National and World Economy

Sofia, Bulgaria

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ICAICTSEE-2020

CONFERENCE PROGRAM

November 27th, 2020

10:00 (12:30 IST) – VIT Sessions (in English Language)

November 28th, 2020

10:00 – UNWE Sessions (in Bulgarian Language)

Prof. Dr. Dimiter Velev
Director of Science Research Center for Disaster Risk Reduction
Department of Information Technology and Communications
University of National and World Economy
UNSS, 8 December str., Student Town,
Sofia 1700, Bulgaria, Europe

Room: 5038
Email: dgvelev@unwe.bg

NOVEMBER 27TH, 2020

10:00 – 11:00

Conference Official Opening

OPENING REMARKS – **PROF. DR. DIMITER VELEV**, ICAICTSEE-2020 CHAIR, UNWE

- WELCOME SPEECH 1 – **PROF. DR. DIMITAR DIMITROV**, RECTOR OF THE UNIVERSITY OF NATIONAL AND WORLD ECONOMY (UNWE), BULGARIA
- WELCOME SPEECH 2 – **PROF. DR. KAMELIA STEFANOVA**, DEAN OF THE FACULTY OF APPLIED INFORMATICS AND STATISTICS (UNWE), BULGARIA
- WELCOME SPEECH 3 – **PROF.DR. KITTUR HARISH MALLIKARJUN**, DEAN , SCHOOL OF ELECTRONICS ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY (VIT), INDIA
- WELCOME SPEECH 4 - **PROF.DR. SIVAKUMAR R**, SCHOOL OF ELECTRONICS ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY (VIT), INDIA

KEYNOTE SPEECH 1

HOW TAIWAN USED TECHNOLOGY TO FIGHT COVID-19

Patty Lin

Director of Taiwan Trade Center, Sofia, Bulgaria

KEYNOTE SPEECH 2

**ANALYTICAL MODELLING & MULTICRITERIA INTERACTIVE ASSESSMENT OF
2D/3D VIRTUAL REPRESENTATIONS & THEIR EFFECTS ON THE TRAINEES
COGNITIVE SKILLS TRANSFORMATION**

Prof. Dr. Zlatogor Minchev

*Institute of ICT/Institute of Mathematics & Informatics,
Bulgarian Academy of Sciences, Sofia, Bulgaria*

DISCUSSION

NOVEMBER 27TH, 2020

(ALL SESSIONS ARE IN ENGLISH LANGUAGE)



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)



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Acceptance Notification: 10th November 2020



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VIT – INDIA

PANEL 1 (02:00 PM – 03:00 PM)

CHAIRS: PROF. DR. DIMITER VELEV (UNWE)

PROF. JEEVA JB (VIT EXPERTEE)

PROF. VIDHYA S (VIT COORDINATOR)

PAPER	TITLE
VIT-01	A DIAGNOSTIC APPROACH FOR OSTEOARTHRITIS USING VIBROARTHROGRAPHY Bhumika Bhat, Sharmila Nageswaran Department of Sensor and Biomedical Engineering, School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-02	A LABVIEW BASED DESIGN FOR DETECTION OF HEART DISEASES, ECG ABNORMALITIES AND MEASUREMENT OF SAO2 Anjusha AK, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India
VIT-03	A NOVEL DIAGNOSTIC TOOL FOR OBSTRUCTIVE SLEEP APNEA USING LABVIEW George Varghese, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India
VIT-04	ACCELERATION-BASED AMBULATORY MONITORING IN KNEE- OSTEOARTHRITIS PATIENTS USING LABVIEW Saksham Kapoor, Sharmila Nageswaran Department of Sensor and Biomedical Technology, School of Electronics engineering Vellore Institute of technology, Vellore, Tamilnadu, India
VIT-05	ANALYSIS AND DIAGNOSIS OF COVID19 SYMPTOMS USING ULTRASOUND IMAGE PROCESSING Hrishika Sharma, Vishvesh S. Patel, Shailly Vaidya, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Vellore, Tamilnadu, India
VIT-06	ANALYSIS OF P300 COMPONENT AND ITS SPECTRAL DENSITY FOR DETECTION OF CERTAIN NEUROLOGICAL DISORDERS AND THEIR EFFECTS ON PERCEPTION Shreyansh Sheth, R. Sivakumar Vellore Institute of Technology, Tamilnadu, India
VIT-07	ANALYSIS OF POSITRON EMISSION TOMOGRAPHY IMAGES WITH EFFECTIVE SEGMENTATION AND SLICING B.Kanishkar, Rahul Davamani, Kasi Viswanathan AD, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics, Vellore Institute of Technology, Vellore, Tamilnadu, India

PANEL 2 (02:00 PM – 03:00 PM)**CHAIRS:** ASSOC. PROF. DR. PLAMEN MILEV (UNWE)

PROF. BASKAR MOHAN MURARI (VIT EXPERTEE)

PROF. SHARMILA N (VIT COORDINATOR)

PAPER	TITLE
VIT-08	AUTOMATIC SALINE LEVEL CONTROLLER AND INDICATOR USING LABVIEW Somanshu R. Narkhede, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India
VIT-09	BONE FRACTURE DETECTION USING IMAGE PROCESSING AND NEURAL NETWORKS Asha Joy Jacob, Apala Chakrabarti, R Sivakumar Vellore Institute of Technology, Vellore, India
VIT-10	CARDIAC ARRHYTHMIA & ABNORMALITY INDICATOR Shishira P A, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India
VIT-11	CHEST AND LUNG CANCER DETECTION FROM PET SCAN IMAGES USING CNN AND DEEP LEARNING Niladri Sekhar Saha, Ankit Dutta, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India
VIT-12	CONTEMPORARY TRENDS IN DIAGNOSIS OF DIABETIC FOOT ULCERS USING THERMOGRAPHY Nirmala Vasan, Siddharth Gorti, Barath Ram, Sivakumar. R Department of Sensors and Biomedical Technology, School of Electronics Engineering, Vellore Institute of technology, Vellore, Tamilnadu,India
VIT-13	CONVOLUTIONAL AUTOENCODERS FOR MRI DENOISING Tony Jacob, Ahmed Jaleel, Krishna Prasad Bhat, Sivakumar R Department of Sensor and Biomedical Technology, SENSE, Vellore Institute of Technology, India
VIT-14	COVID-19 INFECTION MANAGEMENT USING THERMOGRAPHIC IMAGE ANALYSIS Gokilambika H, Sudha C B, Ardra T, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamilnadu,India
VIT-15	DAILY TASK REMINDER AND ALERT SYSTEM FOR DEMENTIA PATIENTS USING LABVIEW Sherine Susanna J, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India

PANEL 3 (03:00 PM – 04:00 PM)**CHAIRS:** PROF. DR. DIMITER VELEV (UNWE)

PROF. DEBASHIS MAJI (VIT EXPERT)

PROF. MYTHILI A (VIT COORDINATOR)

PAPER	TITLE
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VIT-20	GALVANIC SKIN RESPONSE FOR DETECTING EMOTIONAL AROUSAL AND STRESS Bhumika Bhat, Sivakumar R Department of Sensor and Biomedical Engineering, School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamilnadu, India
VIT-21	KNEE BRACE FOR PREVENTION OF UNILATERAL KOA-KNEE OSTEOARTHRITIS Shishira P A, Sharmila Nageswaran Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India
VIT-22	MENTAL STATE DETECTION USING DEVELOPMENT OF SENSORY LIGHT SYSTEM Shubhanki Sengupta, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India
VIT-24	NERVE STIMULATOR TO PREVENT DEEP VEIN THROMBOSIS IN BED- RIDDEN PATIENTS Somanshu R. Narkhede, Sharmila Nageswaran Department of Sensor and Biomedical Technology, School of Electronics Engineering Vellore Institute of Technology, Tamilnadu, India
VIT-25	PATIENT MONITORING SYSTEM USING LABVIEW Solomon, Sivakumar R Department of sensor and Biomedical Technology, School of electronics engineering Vellore Institute of Technology, School of Electronics Engineering, India

PANEL 4 (03:00 PM – 04:00 PM)**CHAIRS:** ASSOC. PROF. DR. PLAMEN MILEV (UNWE)

PROF. DEEPA MADATHIL (VIT EXPEETEE)

PROF. VIDHYA S (VIT COORDINATOR)

PAPER	TITLE
IND	MICROSTRIP ANTENNA DESIGN WITH SLOTTED PATCH PARASITIC ELEMENTS AND MODIFIED GROUND Divya Antony, Stephan Rodrigues Department of Instrumentation, CUSAT, India
VIT-28	REAL-TIME MONITORING OF COMPLEX IMPEDANCE AND FINDING THE STABILITY OF A FUEL CELL USING LABVIEW Saksham Kapoor, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics engineering Vellore Institute of technology, Vellore, Tamilnadu, India
VIT-29	TO PREVENT DEEP VEIN THROMBOSIS IN BRDRIDDEN PATIENTS Shubhanki Sengupta, Sharmila Nageswaran Vellore Institute of Technology, Vellore, Tamilnadu, India
VIT-30	ULTRASOUND IMAGE DENOISING Sandeep R, Manisha Manohar D, Katru Chakradhar, Sivakumar R Department of Sensor and Biomedical Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore, India.
VIT-31	THE SCOPE AND APPLICATION OF NANO ROBOTS IN BIOMEDICINE Patil Darshan Rajkumar, Ashna Gupta, Kunal Kulkarni Vellore Institute of Technology, Vellore, India.
VIT-32	AN INTELLIGENT BED MATFOR PREVENTION OF PRESSURE ULCER ANJUSHA AK, SHARMILA NAGESWARRAN Department of Sensor and Biomedical Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore, India.

NOVEMBER 28TH, 2020

(ALL SESSIONS ARE IN BULGARIAN LANGUAGE)

PANEL 5 - 10:00 AM – 12:00 AM (CET+1)

CHAIRS: PROF. DR. DIMITER VELEV (UNWE)

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BG-01	MAIN METHODOLOGIES FOR DIGITAL BUSINESS MODELS DEVELOPMENT Stanimira Yordanova¹, Kliment Toshkov², Kamelia Stefanova¹ ¹ University of National and World Economy, Sofia, Bulgaria ² ULSIT, Sofia, Bulgaria
BG-02	DIGITAL ECOSYSTEM DESIGN APPROACHES Stanimira Yordanova¹, Kliment Toshkov², Kamelia Stefanova¹ ¹ University of National and World Economy, Sofia, Bulgaria ² ULSIT, Sofia, Bulgaria
BG-03	ARCHITECTURE OF A BIG DATA ANALYSIS SYSTEM Vanya Lazarova University of National and World Economy, Sofia, Bulgaria
BG-04	STORING BIG DATA IN NoSQL DATABASES – ADVANTAGES AND PROBLEMS MARIANA KOVACHEVA University of National and World Economy, Sofia, Bulgaria
BG-05	KEY ASPECTS OF LEADERSHIP IN BUSINESS ORGANIZATIONS UNDER THE CONDITIONS OF THE COVID-19 PANDEMIC Kiril Dimitrov University of National and World Economy, Sofia, Bulgaria
BG-07	ANALYSIS OF LIVING LABOR COSTS IN THE CONTEXT OF DIGITALIZATION Rositsa Nedkova Ivanova University of National and World Economy, Sofia, Bulgaria
BG-08	Minimum Requirements for IDS Based on “Cost-Benefit” Approach Nedko Tagarev University of National and World Economy, Sofia, Bulgaria
BG-09	SOME ASPECTS OF THE STUDENTS’ PROJECTS ON STATISTICS Svetlana Vasileva, Mariyana Panayotova Dobrich, Bulgaria
BG-10	APPLICATION OF DIGITAL TECHNOLOGIES IN ERP SYSTEMS Emil Denchev University of National and World Economy, Sofia, Bulgaria

PANEL 6 - 10:00 AM – 12:00 AM (CET+1)**CHAIRS:** ASSOC. PROF DR. ROSEN KIRILOV (UNWE)

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BG-12	INFORMATION PROBLEMS OF PRACTICAL TRAINING IN A REAL WORK ENVIRONMENT Rosen Kirilov University of National and World Economy, Sofia, Bulgaria
BG-13	BULGARIAN STARTUPS AND THEIR INFORMATION NEEDS: AN EXPLORATORY SURVEY Svetoslav Ivanov, Pavel Petrov Department of Informatics, University of Economics – Varna, Bulgaria
BG-14	INFORMATION SYSTEMS IN STARTUP SOFTWARE COMPANIES Svetoslav Ivanov, Pavel Petrov Department of Informatics, University of Economics – Varna, Bulgaria
BG-15	APPLICATION OF MAP CHARTS IN THE CONTEXT OF DATA ANALYSIS OF WEB PUBLICATIONS Plamen Milev University of National and World Economy, Sofia, Bulgaria
BG-16	FEATURES OF WEB-BASED INFORMATION SYSTEMS FOR MANAGEMENT AND MONITORING OF RESEARCH PROJECTS Plamen Milev University of National and World Economy, Sofia, Bulgaria
BG-17	INTEGRATION OF BUSINESS APPLICATIONS VIA DATA-DRIVEN FILE IMPORT MONIKA TSANEVA University of National and World Economy, Sofia, Bulgaria
BG-18	ANALYSIS OF SERVERLESS CLOUD DATA WAREHOUSE SOLUTIONS Geno Stefanov University of National and World Economy, Sofia, Bulgaria
BG-19	COMPARATIVE ANALYSIS OF E-GOVERNMENT IN THE WESTERN BALKANS Katia Kirilova University of National and World Economy, Sofia, Bulgaria
BG-20	TRENDS IN THE DEVELOPMENT OF E-SERVICES IN BULGARIA Katia Kirilova University of National and World Economy, Sofia, Bulgaria

PANEL 7 - 01:00 PM – 03:00 PM (CET+1)**CHAIRS:** PROF. DR. MITKO RADOEV (UNWE)

PAPER	TITLE
BG-21	CONTAINER TECHNOLOGY AGAINST VIRTUAL MACHINES - DOCKER AND KUBERNETES Ivan Belev University of National and World Economy, Sofia, Bulgaria
BG-22	COMPARING BUSINESS PROCESS MANAGEMENT AND CASE MANAGEMENT Ivan Belev University of National and World Economy, Sofia, Bulgaria
BG-23	SOME THEOREMS AND APPROACHES FOR THE STUDYING OF PENDULUM EQUATIONS Kostadin Sheyretski University of National and World Economy, Sofia, Bulgaria
BG-24	CHALLENGES FACED DURING THE INDEPENDENT FINANCIAL AUDIT OF FINANCIAL STATEMENTS OF HEALTH INSURERS Maia Natchkova University of National and World Economy, Sofia, Bulgaria
BG-25	BREAKOUT ROOMING IN ONLINE CLASSES – PUTTING LIVE COHORT OF STUDENTS TOGETHER TO SIMULCAST THEORIES OR PRACTICES Vanya Slantcheva-Baneva MT&M College, Sofia, Bulgaria
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BG-27	ABOUT THE PRIVATE CASE OF CONJECTURE2 Todor Stoyanov University of economics - Varna, Bulgaria
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BG-29	INCREASING CYBERSECURITY IN THE PROCESS OF DIGITIZATION IN HIGHER EDUCATION INSTITUTIONS IN BULGARIA - DIGITIZATION OF HIGHER EDUCATION INSTITUTIONS IN BULGARIA: CYBERSECURITY ASPECTS Elitsa Pavlova University of National and World Economy, Sofia, Bulgaria
BG-30	SECURITY CHALLENGES FOR BIG DATA PLATFORMS Ivona Velkova University of National and World Economy, Sofia, Bulgaria

PANEL 8 - 01:00 PM – 03:00 PM (CET+1)**CHAIRS:** PROF. DR. MONIKA TZANEVA (UNWE)

PAPER	TITLE
BG-31	DISRUPTIVE EDUCATION TECHNOLOGIES: THREATS AND OPPORTUNITIES Ruslan Tsankov¹, Stela Valeva² ¹ University of National and World Economy, Sofia, Bulgaria ² Faculty of Economics and Business Administration, Sofia University "St. Kl. Ohridski"
BG-32	ARCHITECTURAL FEATURES OF TECHNOLOGICAL SOLUTIONS FOR STRUCTURING OF DATA IN WEB-BASED INFORMATION SYSTEMS Yavor Tabov University of National and World Economy, Sofia, Bulgaria
BG-33	CONCEPTUAL MODEL OF SOFTWARE SOLUTION FOR STRUCTURING OF DATA IN WEB-BASED INFORMATION SYSTEMS Yavor Tabov University of National and World Economy, Sofia, Bulgaria
BG-34	CLASSIFICATION OF SOME OF THE MODERN AGILE METHODOLOGIES APPLIED IN SOFTWARE DEVELOPMENT Preslav Prodanov University of National and World Economy, Sofia, Bulgaria
BG-35	FUNDAMENTAL RELATIONS, SIMILARITIES AND DIFFERENCES BETWEEN DXP AND CMS Preslav Prodanov University of National and World Economy, Sofia, Bulgaria
BG-36	NATURAL LANGUAGE PROCESSING TECHNIQUES FOR UNDERSTANDING INFORMATION Teodor Todorov University of National and World Economy, Sofia, Bulgaria
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FA-02	DIGITAL TRANSFORMATION OF SERBIAN BANKING SECTOR: CASE STUDY OF BANK'S STRATEGIC PLANNING FOR A CREATION OF DIGITAL ROADMAP Ivana Marinović Matović¹, Peđa Milosavljević² ¹ Glenfield Training & Consulting, Belgrade, Serbia ² Faculty of Mechanical Engineering, University of Nis, Serbia
FA-03	COMPARATIVE STUDY OF PATIENT SAFETY CULTURE OF THREE HOSPITALS FROM VIEWPOINTS OF PHYSICIANS AND NURSES Siou-Yu You, Yii-Ching Lee, Chih-Hsuan Huang, Diniy Hidayatur Rahman, Hsin-Hung Wu Hubei University of Economics, China
FA-04	THE ASSESSMENT OF PATIENT SAFETY CULTURE DURING COVID-19: CROSS-SECTIONAL STUDY IN A TERTIARY HOSPITAL IN CHINA Chih-Hsuan Huang, Hsin-Hung Wu, Li Li, Xiaoya Li, Qinxue Li, Chengcheng She Hubei University of Economics, China
FA-05	INVESTIGATING THE EFFECTS OF ONLINE TEACHING AND LEARNING ON COLLEGE STUDENTS DURING COVID-19 PANDEMIC PERIOD IN CHINA Chih-Hsuan Huang, Haonan Chen, Tao Li, Ye Chen, Junhao Chen Hubei University of Economics, China
FA-06	MODELS OF CYBERCRIMINAL UNDERGROUND Serghei Ohrimenco, Grigori Borta Academy of Economic Studies of Moldova, Chisinau, Moldova

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