



UNIVERSITY OF NATIONAL AND WORLD ECONOMY

The Spirit Makes The Power

**9TH INTERNATIONAL CONFERENCE ON APPLICATION OF
INFORMATION AND COMMUNICATION TECHNOLOGY AND STATISTICS
IN ECONOMY AND EDUCATION
(ICAICTSEE – 2019)**

October 24 – 26th, 2019

University of National and World Economy

Sofia, Bulgaria

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ICAICTSEE-2019

CONFERENCE PROGRAM

October 24th, 2019

09:30 (12:00 IST) – VIT Session

14:00 – 17:00 – Preliminary Registration (Hall 5038)

October 25th, 2018

09:30 – 10:00 – Registration

10:00 – 11:00 – Official Openning

11:00 – 11:30 – Coffee Break

11:30 – 14:30 – Sessions (according to the schedule)

14:30 – Lunch

October 26th, 2018

09:30 – 18:30 – Sessions (according to the schedule)

18:30 – 19:00 – Conference Closing

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

Room: 5038
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OCTOBER 24TH, 2019

VIT SESSION - 09:30 (12:00 IST) - **BIG CONFERENCE HALL**

SESSION CHAIR: PROF. DR. DIMITER VELEV



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

Dept. of Sensor and Biomedical Technology, School of Electronics Engineering

ICAICTSEE 2019

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PAPER	TITLE
VIT-01	CONTEMPORARY TRENDS IN WEARABLE LEAD-FREE COMPOSITE MATERIALS FOR RADIATION SHIELDING- A REVIEW Digvijay Yadav¹, Mimangsha Sarma¹, Shannon Torcato¹, Shubhankar Shanware¹, R. Sivakumar² ¹ School of Electronics Engineering (SENSE), Vellore Institute of Technology, Vellore-632014, India ² Department of Sensor and Biomedical Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore-632014, India
VIT-02	ASSESSMENT OF THE PATHOPHYSIOLOGY OF MAJOR DEPRESSIVE DISORDERS THROUGH NEUROIMAGING STUDIES Jevetha Vijayadasan, Diksha Raghunathan, R. Sivakumar Department of Sensor and Biomedical Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India
VIT-03	VARIABLE INTENSITY & DISTANCE DRIVEN PROJECTION USING ITERATIVE RECONSTRUCTION, MAR ALGORITHM & WINDOW CLASSIFICATION Pratik Routray, R. Sivakumar School of Electronics and Engineering (SENSE), Vellore Institute of Technology, Vellore-632014, India.

VIT-04	<p align="center">TEG SMART BIN MODEL (THE BLACK HOLE) FOR “GREEN CITY”</p> <p align="center">Nikita.G.B¹, Prithvi K Murjani², Manan Agarwal¹, A. Pradeep Menon¹, Ananya Ganesh³, R. Sivakumar⁴</p> <p align="center">¹School of Mechanical Engineering, ²School of Electronics Engineering, ³School of Computer Science and Engineering, Vellore Institute of Technology, Tamil Nadu, India ⁴Department of Sensor and Biomedical Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India</p>
VIT-05	<p align="center">CONVERTING BLACK AND WHITE X-RAY IMAGE INTO COLORED IMAGE</p> <p align="center">Ipshita Mitra, Shefali Bhardwaj, Sivakumar R</p> <p align="center">School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India</p>
VIT-06	<p align="center">3RD DIMENSIONAL X-RAY IMAGING BASED ON SPECTRAL IMAGING</p> <p align="center">C.Parikshith, Rajat, R.Siva Kumar</p> <p align="center">Dept. of sensors and biomedical technology, School of Electronics Engineering.Vellore Institute of Technology, Vellore</p>
VIT-07	<p align="center">AN EXTENSIVE STUDY AND ANALYSIS ON NEPHROLITHIASIS DETECTION ON COMPUTED TOMOGRAPHY AND ULTRASOUND IMAGES</p> <p align="center">Smiti Tripathy, Simran Nair, R.Sivakumar</p> <p align="center">School of Electronics Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu, India</p>
VIT-08	<p align="center">WEARABLE TENG SENSOR EMBEDDED IN KINESIO TAPE AS A SELF-POWERED ACTIVE BIOMECHANICAL JOINT MOTION SENSOR</p> <p align="center">Ananda Theertan, Dikshitha C M, Arunkumar Chandrasekhar</p> <p align="center">Department of Sensors and Biomedical Engineering, School of Electronics Engineering, Vellore Institute of Technology, Vellore, India</p>
VIT-09	<p align="center">A COMPREHENSIVE REVIEW ON CORRECTION OF MOTION ARTEFACTS IN MRI USING CONCEPTS OF SENSITIVE ENCODING AND DEEP LEARNING</p> <p align="center">Sruthi Krishnamurthy, R.Sivakumar</p> <p align="center">School of Electronics and Engineering (SENSE), Vellore Institute of Technology, Vellore-632014, India</p>
VIT-10	<p align="center">CANCER CELLS DETECTION AND DIAGNOSIS USING IMAGE PROCESSING</p> <p align="center">Arathy Bastin, Samadrita Bhattacharjee, Sanika Liya Sunil, R. Sivakumar</p> <p align="center">School of Electronics Engineering (SENSE), Vellore Institute of Technology, Vellore-632014, India</p>

OCTOBER 25TH, 2019

10:00 – 11:00

Conference Official Opening **(Big Conference Hall)**

WELCOMING THE ICAICTSEE-2019 PARTICIPANTS

KEYNOTE SPEECH 1

THE DEVELOPMENT OF ICT INDUSTRY AND AI APPLICATIONS IN TAIWAN

Patty Lin

Director of Taiwan Trade Center, Sofia, Bulgaria

KEYNOTE SPEECH 2

THE WORLD OF ASUS

AsusTek Computer Inc., Taiwan

DISCUSSION

GROUP PHOTO

OCTOBER 25TH, 2019

SESSION I - 11:30 – 14:30 - BIG CONFERENCE HALL

SESSION CHAIR: PROF. DR. DIMITER VELEV

PAPER	TITLE
1.01	INFLUENCE OF HRM PRACTICES ON TOTAL QUALITY MANAGEMENT Ivana Marinović Matović¹, Pedja Milosavljević² ¹ Addiko Bank AD, Niš, Serbia ² Faculty of Mechanical Engineering, Niš, Serbia
1.02	TWO DIFFERENT TEAMS - ONE GOAL Svetlana Vasileva, Veneta Egova, Mariyana Panayotova NMHS, Dobrich, Bulgaria
1.03	BUSINESS MODELS FOR STARTING SOFTWARE COMPANIES Svetoslav Ivanov, Pavel Petrov University of Economics - Varna, Varna, Bulgaria
1.04	TECHNOLOGIES USED IN PUBLIC WEB SITES OF CZECH BANKS Pavel Petrov, Petar Dimitrov University of Economics - Varna, Varna, Bulgaria
1.05	DATA MINING TECHNIQUES FOR DETECTION OF CREDIT CARD FRAUD Angelin Lalev, Aleksandrina Alexandrova D.A.Tsenov Academy of Economics, Svishtov, Bulgaria
1.06	APPLICATION OF MODERN WEB SOLUTIONS IN THE SCIENTIFIC PERIODICALS Dimitar Dimitrov, Hristo Yankov Todor Kableshkov University of Transport – Sofia, Bulgaria
1.07	NETWORK MODELS GENERATION APPROACH FOR BDZ TRAVEL ROUTE PLANNING IN SOFIA REGIONAL AREA Miglena Ivanova University of National and World Economy, Sofia, Bulgaria
1.08	ANALYSIS OF RETURN ON CAPITAL Rositsa Ivanova University of National and World Economy, Sofia, Bulgaria
1.09	PROCESS MINING TECHNIQUES IN BUSINESS PROCESS MANAGEMENT SYSTEMS Albena Mincheva University of National and World Economy, Sofia, Bulgaria
1.10	A NUMERICAL ANALYSIS FOR FINDING THE EXACT SOLUTION OF THE ZERO COUPON BOND'S PRICE IN THE EXTENDED MERTON'S MODEL INFLUENCED BY A RISK MARKET FACTOR Meglana D. Lazarova¹, Sylvi - Maria T. Gurova², Kostadin G. Sheyretski³ ¹ Faculty of Applied Mathematics and Informatics, Technical University of Sofia, Bulgaria ² Institute of Information and Communication Technologies - BAS, Sofia, Bulgaria ³ University of National and World Economy, Sofia, Bulgaria

1.11	<p>PREPARATION AND OPTIMIZATION OF POLYMER COMPOSITIONS, WITH THE ADDITION OF FILLERS FOR EXTRUSION OF FILAMENTS, POTENTIALLY APPLICABLE IN 3D PRINTING OF CUSTOM DRUG FORMS FOR MEDICINE AND PHARMACY</p> <p>Mario Iliev¹, Milen Dimitrov², Tzvetomir Dimitrov³ ¹Faculty of Physics, Sofia University St. Kl. Ohridski, Sofia, Bulgaria ²Faculty of Pharmacy, Medical University of Sofia, Bulgaria ³University First Hospital for Active Treatment – Sofia, Bulgaria</p>
1.12	<p>MATHEMATICAL MODELING OF HUMAN MIGRATION WITH REACTION-DIFFUSION PDES</p> <p>Veselin G. Boiadzhiev¹, Miroslava Y. Ivanova², Ivan S. Ivanov², Dobrin P. Atanassov¹ ¹University of National and World Economy, Sofia, Bulgaria ²Faculty of Applied Mathematics and Informatics, Technical University of Sofia, Bulgaria</p>
1.13	<p>MATHEMATICAL MODELING OF A GENERALIZED DYNAMICS SYSTEM FOR THREE ECONOMIC AGENTS</p> <p>Denislav Z. Serbezov Elena V. Nikolova ¹IMECH - BAS, Sofia, Bulgaria</p>

OCTOBER 26TH, 2019

SESSION II - 09:30 – 12:00 - **BIG CONFERENCE HALL**

SESSION CHAIR: PROF. D.SC. (ECON.) EMIL DENCHEV

PAPER	TITLE
2.01	POSSIBILITIES AND ISSUES OF SHARING ECONOMY IN LOCAL AREAS Tetsuo Noda, Li Zhang Shimane University, Japan
2.02	CREATIVE CUES TO IDENTIFY AND DESIGN OPPORTUNITIES DRIVEN BY ARTIFICIAL-INTELLIGENCE TECHNOLOGIES Ma-Lorena Escandon-Quintanilla¹, Alejandro Gutierrez-Lopez² ¹ Ryerson University, Toronto, Canada ² McGill University, Montreal, Canada
2.03	CHILDREN WITH READING DIFFICULTIES LEARNING WITH TECHNOLOGY - FLUENCY AND PRECISION INDICES STATISTICALLY COMPARED BY GENDER Célio Gonçalo Marques¹, Luis Grilo¹, Ana Amélia Carvalho² ¹ Polytechnic Institute of Tomar, Portugal ² University of Coimbra, Portugal
2.04	INTELLIGENT TRACKING CONTROL OF UNCERTAIN NONLINEAR SYSTEMS WITH UNKNOWN DISTURBANCES Xuejun Zong¹, Zhongjun Yang¹, Plamena Zlateva², Kan He¹ ¹ Shenyang University of Chemical Technology ² Institute of Robotics, Sofia, Bulgaria
2.05	RESEARCH ON INTRUSION DETECTION ALGORITHM BASED ON UNSW-NB15 DATA SET Xuejun Zong¹, Chao Qu¹, Dimiter Velev², Kan He¹ ¹ Shenyang University of Chemical Technology, Shenyang, China ² University of National and World Economy, Sofia, Bulgaria
2.06	THE ROLE OF PERCEPTIONS OF MANAGEMENT PLAYS IN PROMOTING THE DEVELOPMENT OF PATIENT SAFETY CULTURE IN THE HEALTHCARE ORGANIZATIONS Chih-Hsuan Huang^{1,2}, Hsin-Hung Wu^{3,4}, Ruiqing Lv⁵, Siqi Wang⁵, Xuan Ding⁵, Zixian Guo⁵ ¹ School of Business Administration, Hubei University of Economics, Wuhan City, China ² Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan City, China ³ Department of BA, National Changhua University of Education, Changhua City, Taiwan ⁴ Department of M-Commerce and Multimedia Applications, Asia University, Taichung, Taiwan ⁵ School of Business Administration, Hubei University of Economics, Wuhan City, China
2.07	PROMOTING GREEN CONSUMPTION BEHAVIOR: AN INVESTIGATION OF ENVIRONMENTAL AWARENESS OF COLLEGE STUDENTS IN CHINA Chih-Hsuan Huang^{1,2}, Hsin-Hung Wu^{3,4}, Li Li⁵, Yan Song⁶, Ying Gao⁶, Zishuang Wang⁶ ¹ School of Business Administration, Hubei University of Economics, Wuhan City, China ² Institute for Development of Cross-Strait Small and Medium Enterprise, Wuhan City, China ³ Department of BA, National Changhua University of Education, Changhua City, Taiwan ⁴ Department of M-Commerce and Multimedia Applications, Asia University, Taichung, Taiwan ⁵ Law & Business College of Hubei University of Economics, Wuhan City, China ⁶ School of Business Administration, Hubei University of Economics, Wuhan City, China

2.08	<p>EMOTIONAL EXHAUSTION ASSESSMENT FROM A NEWLY ESTABLISHED DISTRICT HOSPITAL IN TAIWAN Yi-Fang Lee¹, Yii-Ching Lee^{2, 3}, Jiunn-I Shieh⁴, Chi-Hsuan Huang^{5, 6}, Hsin-Hung Wu¹ ¹Department of BA, National Changhua University of Education, Changhua City, Taiwan ²Department of Health Business Administration, Hung Kuang University, Taichung City, Taiwan ³Superintendent Office, Ben Tang Cheng Ching Hospital, Taichung City, Taiwan ⁴Department of M-Commerce and Multimedia Applications, Asia University, Taichung City, Taiwan ⁵School of Business Administration, Hubei University of Economics, Wuhan City, China ⁶Institute for Development of Cross-Strait Small and Medium Enterprise, Hubei University of Economics, Wuhan City, China</p>
2.09	<p>IDENTIFYING CARE TARGET COMBINATIONS OF DEMENTIA PATIENTS FROM A MEDICAL CENTER IN TAIWAN BY CLASSIFICATION AND REGRESSION TREE Bing-Liang Lin, Hsin-Hung Wu Department of BA at National Changhua University of Education, Changhua City, Taiwan</p>
2.10	<p>DIGITAL MARKETING SUPPORT SYSTEM FOR AGRICULTURE Iryna Borodkina¹, Heorhii Borodkin², Kateryna Kotsuibivska¹ ¹Kiev National University of Culture and Arts, Kyiv, Ukraine ²National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine</p>
2.11	<p>PARETO APPROACH FOR MULTICRITERIA OPTIMIZATION Miroslava Y. Ivanova Faculty of Applied Mathematics and Informatics, Technical University of Sofia</p>
2.12	<p>APPLICATION OF THE GENERALIZED METHOD OF THE SIMPLEST EQUATION FOR SOLVING SPACE-TIME PDES Nikolay K. Vitanov¹, Ivan P. Jordanov^{1, 2} ¹IMECH - BAS, Sofia, Bulgaria ²UNWE, Sofia, Bulgaria, IMECH - BAS, Sofia, Bulgaria</p>

SESSION III - 13:00 – 15:30 - BIG CONFERENCE HALL

SESSION CHAIR: ASSOC.PROF. DR. MITKO RADOEV

PAPER	TITLE
3.01	USING MICROSOFT SQL SERVER 2019 BIG DATA CLUSTERS Mitko Radoev University of National and World Economy, Sofia, Bulgaria
3.02	GENERAL DATA-DRIVEN FILE EXPORT INTEGRATION SOLUTION Monika Tsaneva University of National and World Economy, Sofia, Bulgaria
3.03	BUSINESS PROCESSES DIGITALIZATION IN ACCOUNTING Vanya Lazarova University of National and World Economy, Sofia, Bulgaria
3.04	IMPLEMENTATION MODELS FOR INTELLIGENT TAGGING AND SEARCH Maria Marzovanova University of National and World Economy, Sofia, Bulgaria
3.05	ANALYSIS OF REPRESENTING EXCEL FORMULAS IN SQL SERVER DATABASE Veska Mihova University of National and World Economy, Sofia, Bulgaria
3.06	ANALYSIS OF CLOUD BASED ETL IN IOT AND BIG DATA ERA Geno Stefanov University of National and World Economy, Sofia, Bulgaria
3.07	ASYMPTOTIC METHODS IN THE THEORY OF OSCILLATIONS Kostadin Sheyretski, Meglena Lazarova ¹ Faculty of Applied Mathematics and Informatics, Technical University of Sofia, Bulgaria ² University of National and World Economy, Sofia, Bulgaria
3.08	A PRIVATE CASE OF CONJECTURE² Todor Stoyanov Stoyanov Department of Mathematics, University of Economics, Varna, Bulgaria
3.09	SOME ESTIMATES WHICH ARE NEEDED FOR THE CARDIOID INTERIORITIES Todor Stoyanov Stoyanov Department of Mathematics, University of Economics, Varna, Bulgaria
3.10	ADOPTING E-LEARNING TOOLS INTO MARKETING COURSES TO ENCOURAGE STUDENTS EXPERIENCE THEIR OWN DECISION-MAKING ATTITUDES Vanya Slantcheva-Baneva MT&M College, Sofia, Bulgaria

SESSION IV - 16:00 – 18:30 - BIG CONFERENCE HALL

SESSION CHAIR: ASSOC.PROF. DR. ROSEN KIRILOV

PAPER	TITLE
4.01	TRAINING TO WORK WITH ERP SYSTEMS WITH VIRTUAL REALITY (VR) Emil Denchev University of National and World Economy, Sofia, Bulgaria
4.02	APPROACHES TO RESEARCH THE COSTS AND BENEFITS OF IMPLEMENTATION OF INFORMATION TECHNOLOGIES Rosen Kirilov University of National and World Economy, Sofia, Bulgaria
4.03	CURRENT TRENDS IN THE CAREER DEVELOPMENT OF STUDENTS Rosen Kirilov University of National and World Economy, Sofia, Bulgaria
4.04	CONCEPTUAL APPROACH FOR APPLICATION OF DATA SCIENCE IN WEB ANALYTICS Plamen Milev University of National and World Economy, Sofia, Bulgaria
4.05	OPPORTUNITIES FOR PRESENTATION OF TAG CLOUD IN PUBLIC INFORMATION SYSTEMS Plamen Milev University of National and World Economy, Sofia, Bulgaria
4.06	METHOD OF AUTOMATIC IDENTIFICATION OF UNSTRUCTURED DATA Yavor Tabov University of National and World Economy, Sofia, Bulgaria
4.07	APPLICATION OF ALGORITHMS FOR STRUCTURING OF WEB DATA Yavor Tabov University of National and World Economy, Sofia, Bulgaria
4.08	STUDY OF THE STATUS OF THE ADMINISTRATIVE SERVICE PROCESSES IN THE MUNICIPALITIES Katia Kirilova University of National and World Economy, Sofia, Bulgaria
4.09	OPPORTUNITIES FOR DEVELOPMENT OF SOFT SKILLS OF THE ADMINISTRATION EMPLOYEES Katia Kirilova University of National and World Economy, Sofia, Bulgaria

18:30 – 19:00 CONFERENCE CLOSING