

ICETA 2024

22nd Year of International Conference on Emerging eLearning Technologies and Applications

October 24, 2024 (THURSDAY)

Room A	Hoepfner Hall
08.00 – 09.00	Registration and check in at the Conference Venue
	Opening Session Chairman: Peter Fecil'ak In English
09.00 – 09.15	Welcome and Opening Information Addresses Chairman Desk: Miroslav Kelemen Vice-rector, Technical University of Košice, Slovakia Gabriel Galgóci DG, Ministry of Economy of the Slovak Republic Mário Lelovský DG, National Union of Employers & IT Association of SR Marián Bučko CEO, elfa, Ltd., Košice, Slovakia Peter Fecil'ak Program Committee Chair, TU of Košice, Slovakia Štefan Fejedelem Organizing Committee Chair, elfa, Ltd., Košice, Slovakia
	Plenary Session I. Chairman: Peter Fecil'ak In English
09.15 – 09.40	COMPETITIVENESS AND GROWTH - HUMAN RESOURCE REQUIREMENTS G. Galgóci, Ministry of Economy of the Slovak Republic
09.40 – 10.05	STRATEGY OF WORK WITH TALENT AND PROPOSAL OF TALENT POLICY FOR THE GOVERNMENT OF SLOVAK REPUBLIC M. Lelovský, National Union of Employers & IT Association of SR
10.05 – 10.30	FROM INFORMATION TO INSIGHT: REIMAGINING CRITICAL THINKING PEDAGOGY IN THE AGE OF ARTIFICIAL INTELLIGENCE L. Stuchlíková, Slovak University of Technology in Bratislava, Slovakia
10.30 – 10.55	ETHICAL IMPLICATIONS OF ARTIFICIAL INTELLIGENCE - A CRITICAL EXAMINATION OF DILEMMAS J. Pospíchal, University of SS. Cyril and Methodius in Trnava, Slovakia
10.55 – 11.20	Coffee break
	Plenary Session II. Chairman: Erika Abigail Katonová In English
11.20 – 11.40	ONLINE LEARNING: INTERACTIVITY AS A KEY TO SUCCESS K. Pišútová, Training Centre CIT, Comenius University, Bratislava, Slovakia

11.40 – 12.00	CHANGING THE PARADIGM: THE ROLE OF MODELLING IN EDUCATIONAL CONTENT ENGINEERING J. Lang, Slovak University of Technology in Bratislava, Slovakia
12.00 – 12.20	LEARNING ENVIRONMENT IN THE DIGITAL AGE FOR PERSONALISED STEM EDUCATION M. Kireš, University of P.J. Šafárik in Košice, Slovakia
12.20 – 12.40	EMPOWERING THE FUTURE: ACHIEVING EXCELLENCE IN VOCATIONAL EDUCATION FOR INDUSTRY 5.0 N. Urbančíková, Technical University of Košice, Slovakia
12:40 – 13.00	DEMONSTRATION MODELS AS A NEW WAY OF EDUCATING AND TRANSFERRING KNOWLEDGE ABOUT TECHNOLOGY D. Staniszewski, Aptiv Services Poland S.A., Poland (commercial presentation)
13.00 – 14.30	Lunch
	Technical Session I. Chairman: Ondrej Kainz In English
14.30 – 14.45	AI IN THE CLASSROOM: HOW TEACHERS PERCEIVE THE FUTURE OF EDUCATION K. Huszárová, D. Šmida, A. Kmeť, Š. Karolčík, E. Hájková, Comenius University, Bratislava, Slovakia
14.45 – 15.00	AI-BASED ASSISTANT: LLMS FOR EFFECTIVE ROBOTICS EDUCATION AND RESEARCH M. Krupáš, L. Antonets, J. Vaščák, I. Zolotová, Technical University of Košice, Slovakia
15.00 – 15.15	IMPLEMENTING THE SOCRATIC METHO WITH AI: OPPORTUNITIES AND CHALLENGES OF INTEGRATING CHATGPT INTO TEACHING PEDAGOGY S. Porta, D. Orynbassarova, Kimep University, Kazakhstan (remote presentation)
15.15– 15.30	RUBRICS AS A WAY OF ASSESSING STUDENTS IN EDUCATIONAL ROBOTICS IN SLOVAK SECONDARY SCHOOLS: TEACHER'S PERSPECTIVE J. Krcho, Comenius University in Bratislava, Slovakia
15.30 - 15.45	PROGRAMMING EDUCATION THROUGH GAME-BASED LEARNING AND QUIZZES L. Bubeňková, E. Pietriková, Technical University of Košice, Slovakia
15.45 – 16.00	Coffee Break
	Special Session I. (Child Security) Chairman: Matúš Pleva In English
16.00 – 16.15	DETECTION OF ARTIFICIALLY CREATED FACES WITH CONVOLUTIONAL NETWORKS V. Balara, K. Machová, Technical University of Košice, Slovakia
16.15 – 16.30	CRITICAL REVIEW OF CURRENT AUDIOMETRIC SCREENING PRACTISES AND THE IMPACT OF HEARING LOSS ON PRESCHOOL AND SCHOOL-AGED CHILDREN P. Kasak, M. Jakubec, R. Jarina, M. Spisiak, University of Žilina, Žilina, Slovakia
16.30 – 16.45	CONTRIBUTION TO SAFER INTERNET FOR CHILDREN AT SCHOOL J. Uramová, P. Segeč, M. Moravčík, University of Žilina, Žilina, Slovakia

16.45 – 17.00	INNOVATIVE STRATEGIES FOR PREVENTING ONLINE CHILD GROOMING: A MULTILINGUAL WEB APPLICATION E. Kupcová, M. Pleva, R. Haluška, Z. Sokolová, P. Gajdoš, P.Bours, Technical University of Košice, Slovakia
17.00 – 17.15	ENSEMBLE LEARNING IN THE RECOGNITION OF VARIOUS TYPES OF THE ONLINE TOXICITY K. Machová, M. Mach, V. Balara, P. Husnáj, Technical University of Košice, Slovakia
14.30 – 17.15	Posters Session I (parallel, in English) Chairman: Miroslav Murín Presentations and discussion with authors: October 24, 2024

	INVESTech Workshop Chairman: Oto Hudec (parallel, in Slovak)
14.30 – 17.00	Fostering Regional Collaboration for Excellence in ICT Vocational Education Year of project start: 2024 Year of project completion: 2028 Provider of funds: Grant Agency, Client: European Commission Project registration number: 101143958; ERASMUS-EDU-2023-PEX-COVE Coordinator: Ass. Prof. Ing. Nataša Urbančíková, PhD.

Welcome Party starts at 20.00
October 24, 2024 (Thursday)

ICETA 2024
October 25, 2024 (FRIDAY)

Room
A

Hoepfner Hall

08.00 – 09.00

Registration and check in at the Conference Venue

Plenary Session III.
In English

Chairman: Ján Genčí

09.00 – 09.20

SENIOR WELFARE - GDANSK FESTIVAL OF LIGHT CASE STUDY
A. Grabowska, Gdansk Festival of Light, Poland (remote presentation)

09.20 – 09.40

CAN LOW-CODE LANGUAGES BE USED FOR CORE ENTERPRISE APPLICATIONS?
G. Juhás, Slovak University of Technology in Bratislava, Slovakia

09.40 – 10.00

**EDUCATION FOCUSED ON RESEARCH SKILLS,
WITH EXAMPLES FROM THE FIELD OF ARTIFICIAL INTELLIGENCE**
J. Paralič, Technical University of Košice, Slovakia

10.00 – 10.20

**WILL THE EXTENSION OF COURSES OF MATHEMATICS
LEAD TO THE GROWTH OF CRITICAL THINKING SKILLS?**
J. Hvorecký, University of Ostrava, Czech Republic

10.20 – 11.40

WHEN WILL WE HAVE TOP-TIER UNIVERSITIES IN SLOVAKIA?
J. Genčí, Technical University of Košice, Slovakia

10.40 – 11.00

Coffee Break

Technical Session II.
In English

Chairman: Dávid Cymbalák

11.00 – 11.15

**ENHANCING PIANO ACCESSIBILITY USING AUGMENTED REALITY
FOR EDUCATION IN PIANO CLASSES**
P. Hafner, M. Čerňanský, University of SS. Cyril and Methodius, Trnava, Slovakia

11.15 - 11.30

**TRENDS AND GOOD PRACTICES IN THE APPLICATION OF INNOVATIVE
METHODS AND TECHNOLOGIES IN THE FIELD OF STEM EDUCATION**
A. Chikurteva, Institute of Information and Communication Technologies -
Bulgarian Academy of Sciences, Bulgaria (remote presentation)

11.30 - 11.45

AI IN VOCATIONAL TRAINING
V. Bakonyi, Z. Illés, S. Korom, D. Szabó, ELTE, Budapest, Hungary

11.45 - 12.00

**EDUCATIONAL PROCESS OF EMPLOYEES SUPPORTED BY AUGMENTED
REALITY**
L. Knapčíková, A. Behúnová, M. Martiček, R. Tauberová, D. Strametz,
M. Abdul-Hadi, Technical University of Košice, Slovakia

12.00 – 12.15

**AI-ENHANCED GAME SIMULATION FOR ELECTRICAL ENGINEERING
EDUCATION**
I. Dirgová Luptáková, M. Kubovčík, J. Pospíchal, L. Židó, University
of Ss. Cyril and Methodius, Trnava, Slovakia

12.15 – 12.30	MEASURING CRITICAL THINKING USING CHALLENGE-BASED LEARNING IN THE COVID-19 ERA TO EVALUATE THE COMPLEXITY-REASONING COMPETENCE L. A. Carrillo-Martinez, D. Perez-Rojas, D. Antonio-Torres, J.D. Marin-Segura, J.A.F. Diaz, F. Cortes-Santacruz, E. Torres-Rios, Tecnologico de Monterrey, Monterrey, Mexico
12.30 – 12.45	SHORT FILMS AS A LEARNING TOOL IN A GLOBAL HEALTH GSLC INTERNATIONAL COLLABORATION: MEXICO AND COLOMBIA I. Eguiluz; I. M. Leyva-Barrera; M. Saenz, Tecnologico de Monterrey, Monterrey, Mexico
12.45 – 12.50	EVALUATION OF THE CONFERENCE CLOSING AND REMARKS
12:50 – 14.30	Lunch
09.00 – 11.45	Posters Session II (parallel,in English) Chairman: Erika Abigail Katonová Presentations and discussion with authors: October 25, 2024

	Fridrich August Lounge
	Poster Session (in English) Chairman: Miroslav Murín Discussion with authors: October 24, 2024, 14:30 – 17:15
1 14:30 14:35	INTERACTIVE VISUAL ANALYSIS OF A SET OF INDICATORS FOR MONITORING THE QUALITY OF EDUCATION AT TUKE M. Matejová, J. Paralič, R. Dančišin, Technical University of Košice, Slovakia
2 14:35 14:40	DEVELOPING SPEECH TESTS FOR AUDIOLOGICAL ASSESSMENT OF ROMA CHILDREN E. Kiktová, S. Ondáš, University of P.J. Šafárik, Košice, Slovakia
3 14:40 14:45	GAMIFICATION OF THERAPEUTIC TOOLS FOR SPEECH AND HEARING DISORDERS S. Ondáš, Z. Sokolová, A. Božek, Technical University of Košice, Slovakia
4 14:45 14:50	DEVELOPMENT OF SUPPORT SPEECH THERAPY GAME R. Haluška, M. Pleva, A. Reňák, Technical University of Košice, Slovakia
5 14:50 14:55	COMPARISON OF BERT-BASED CLASSIFIERS FOR DETECTING GRAMMATICAL ERRORS IN SLOVAK SENTENCES M. Harahus, M. Pleva, D. Hládek, Z. Sokolová, Technical University of Košice, Slovakia
6 14:55 15:00	AUTOMATIC SPEECH LIVENESS DETECTION R. Haluška, E. Kupcová, M. Pleva, F. Hric, Technical University of Košice, Slovakia
7 15:00 15:05	COMPARATIVE ANALYSIS OF INTRUSION DETECTION SYSTEMS AND NEURAL NETWORKS FOR ANOMALY DETECTION IN NETWORK SECURITY J. Badár, J. Papaj, M. Chovanec, M. Čavojský, Technical University of Košice, Slovakia
8 15:05 15:10	CYBERSECURITY THROUGH PRACTICAL APPLICATIONS O. Kainz, M. Zoller, M. Murin, I. Nováková, E. Šimko, L. Horváth, Technical University of Košice, Slovakia
9 15:10 15:15	APPLICATION AND SOCIAL ENGINEERING SECURITY AUDIT O. Kainz, L. Buchelová, M. Michalko, M. Murin, I. Nováková, E. Šimko, Technical University of Košice, Slovakia
10 15:15 15:20	DEEP DATA ANALYSIS METHODS APPLIED FOR HARD SWITCHING IN HYBRID FSO/RF SYSTEMS Z. Liščinská, Ľ. Ovseník, J. Oravec, Technical University of Košice, Slovakia
11 15:20 15:25	WHAT PRE-CONCEPTIONS DO STUDENTS HAVE ABOUT SENSORS? PRELIMINARY RESULTS B. Stenová, K. Miková, Comenius University, Bratislava, Slovakia
12 15:25 15:30	CONFIGURATIONS OF ONE-TIME CALIBRATED FDDA FOR SELECTED PARAMETERS VERIFICATION D. Maljar, M. Šovčík, M. Potočný, V. Stopjaková, Slovak University of Technology in Bratislava, Bratislava, Slovakia
13 15:30 15:35	COMPARISON OF ANALYTICAL AND NUMERICAL SOLUTIONS AS STARTING POINT TO OBTAIN CONFIDENCE AND RELIABLE NUMERICAL RESULTS IN COMMERCIAL FEM SOFTWARE Z. Murčíňková, Technical University of Košice, Slovakia

14 15:35 15:40	ENHANCING THE SKILLS OF COMPUTER SCIENCE STUDENTS FOR DATA ANALYSIS IN ASTROPHYSICAL AND GEOPHYSICAL DOMAINS – DIFFERENT PROJECTS AND USE CASES P. Butka, M. Sarnovský, V. Krešňáková, Š. Mackovjak, A. Nina, P. Bednár, Technical University of Košice, Slovakia
15 15:40 15:45	OVERVIEW OF ACCESS CONTROL MECHANISMS IN CLOUD ENVIRONMENTS M. Moravčík, Ľ. Žideková, University of Žilina, Žilina, Slovakia
16 15:45 15:50	LABORATORY ENTRY AND ATTENDANCE SYSTEM UTILIZING BACKEND AS A SERVICE Ľ. Urblík, M. Ferčák, E. Kajáti, P. Papcun, Technical University of Košice, Slovakia
17 15:50 15:55	DESIGN AND DEVELOPMENT OF AN INTERACTIVE 3D EDUCATIONAL GAME FOR TEACHING FUNDAMENTAL CONCEPTS IN COMPUTER NETWORKS E. A. Katonová, D. Mantič, P. Feciľak, Technical University of Košice, Slovakia
18 15:55 16:00	OVERVIEW OF SDN AND SD-WAN IN HYBRID CLOUD SOLUTIONS D. Kafka, P. Segeč, M. Moravčík, University of Žilina, Slovakia
19 16:00 16:05	A COMPARATIVE STUDY OF MANUAL VS. MODEL-DRIVEN CONFIGURATION: EVALUATING EFFICIENCY AND SCALABILITY IN JUNIPER NETWORKS E. A. Katonová, M. Lešo, P. Feciľak, Technical University of Košice
20 16:05 16:10	SECURITY OPERATIONS CENTER ON CAMPUS Ľ. Žideková, P. Segeč, J. Uramová, M. Moravčík, University of Žilina, Slovakia
21 16:10 16:15	A MODEL-DRIVEN APPROACH TO QOS CONFIGURATION: IMPLEMENTING AND EVALUATING A RESTCONF-BASED CONTROLLER FOR FLYING DRONES E. A. Katonová, D. Gurník, P. Feciľak, Technical University of Košice
22 16:15 16:20	ANALYSIS OF NEW MECHANISMS IN THE FAST REROUTE S. Tatarka, M. Janovec, J. Papán, University of Žilina, Slovakia
23 16:20 16:25	IOT SECURITY THREATS AND SOLUTIONS S. Tatarka, M. Janovec, J. Papán, University of Žilina, Slovakia
24 16:25 16:30	EDUCATION ON REAL DEVICES THROUGH REMOTE ACCESS I. Brídová, M. Moravčík, Ľ. Žideková, University of Žilina, Slovakia
25 16:30 16:35	OVERVIEW OF ACCESS CONTROL MECHANISMS IN CLOUD ENVIRONMENTS M. Moravčík, Ľ. Žideková, University of Žilina, Slovakia
26 16:35 16:40	INTEGRATING JUNIPER NETWORKS CLOUD AND AUTOMATION ACADEMY INTO EDUCATION Segeč P., Moravčík M., Brídová I., Hrabovský J., University of Žilina, Slovakia
27 16:40 16:45	SMART GRID IOT ARCHITECTURE DESIGN FOR ACADEMIC ENVIRONMENTS I. Brídová, M. Janovec, J. Papán, University of Žilina, Slovakia
28 16:45 16:50	REAL-TIME SEAT OCCUPANCY DETECTION IN WAITING ROOMS USING ARDUINO NANO IOT 33 N. Ferenčík, P. Kolembusová, M. Danko, Z. Naďová, W. Steingartner, R. Hudák, Technical University of Košice, Slovakia

29 16:50 16:55	DATA ANALYSIS FROM THE BLUETOOTH SENSOR A. Kanáliková, E. Bubeníková, P. Peniak, University of Zilina, Slovakia
30 16:55 17:00	SPEED AND POSITION SERVO DRIVE TUNING AND TESTING DURING THE LEARNIG PROCESS I. Bélai, I. Bélai Jr., Slovak University of Technology in Bratislava, Slovakia
31 17:00 17:05	INTEGRATING MEMES: ENHANCING EDUCATION WITH POP CULTURE A SYSTEMATIC LITERATURE REVIEW M. P. Rodriguez-Guillen, A. C. Zavala-Parrales, G. Valerio-Ureña, Tecnológico de Monterrey, Monterrey, Mexico
32 17:05 17:10	A PERSPECTIVE ON DIDACTICS PRINCIPLES IN THE CONTEXT OF DIGITAL GAME-BASED LEARNING SCENARIOS M. Hostovecký, University of SS. Cyril and Methodius, Trnava, Slovakia
33 17:10 17:15	WEB APPLICATION FOR ADMINISTRATION, PLANNING AND MANAGEMENT OF STUDIES FROM THE PERSPECTIVES OF THE TEACHER AND THE STUDENT M. Brožek, M. Dosedla, Masaryk University, Brno, Czech Republic

	Fridrich August Lounge
	Poster Session II (in English) Chairman: Erika Abigail Katonová Discussion with authors: October 25, 2024, 09:00 – 11:45
34 09:00 09:05	SIMPLIFIED FAST TEST AND VISUALIZATION HUMANOID ROBOT SYSTEM IN VIRTUAL REALITY ENVIRONMENT Sobota B., Štolcz V., Korečko Š., Technical University of Košice, Slovakia
35 09:05 09:10	CONTROL AND VALIDATION APPLICATION FOR TEST AND VISUALIZATION SYSTEM OF VIRTUAL HUMANOID ROBOT Sobota B., Savko P., Korečko Š., Technical University of Košice, Slovakia
36 09:10 09:15	THERAPEUTIC AND EDUCATIONAL SYSTEM FOR PEOPLE WITH MULTIPLE SCLEROSIS IN COLLABORATIVE VIRTUAL REALITY ENVIRONMENT Sobota B., Irhová I., Korečko Š., Technical University of Košice, Slovakia
37 09:15 09:20	THERAPEUTIC SYSTEM FOR PEOPLE WITH PHOBIAS BASED ON COLLABORATIVE EXTENDED REALITY TECHNOLOGIES Sobota B., Kováčová V., Korečko Š., Technical University of Košice, Slovakia
38 09:20 09:25	ENHANCING CODE QUALITY THROUGH STATIC ANALYSIS: OPTIMIZING THE FLAVA TOOL FOR DETECTING CODE SMELLS AND ERRORS USING SONARQUBE INTEGRATION S. Mafašová, M. Chovanec, R. Rusnáková, D. Čatloch, Technical University of Košice, Slovakia
39 09:25 09:30	INNOVATIVE APPROACHES IN ARTIFICIAL INTELLIGENCE: CURRENT TRENDS SHAPING THE TECHNOLOGICAL FUTURE S. Mafašová, M. Chovanec, R. Rusnáková, D. Čatloch, Technical University of Košice, Slovakia
40 09:30 09:35	IMPROVING SOFTWARE EDUCATION WITH TECHNICAL DEBT ANALYSIS TOOL M. Horváth, E. Pietriková, J. Šašak, Technical University of Košice, Slovakia
41 09:35 09:40	HOW TO IMPROVE TEST PERFORMANCE BY MOODLE STATISTICS T. Buček, J. Genčí, Technical University of Košice, Slovakia

42 09:40 09:45	CREATING AN M-LEARNING-BASED EDUCATIONAL SOLUTION IN A DECENTRALIZED BLOCKCHAIN ENVIRONMENT K. Bálint, Óbuda University, Budapest, Hungary
43 09:45 09:50	INFORMATION SYSTEM FOR POLICE FORCE: APPLICATION FOR ANALYZING TRAFFIC ACCIDENTS DATA M. Kvet, M. Kvet, P. Pukalík, F. Sudora, M. Bušík, M. Tvrдый, University of Žilina, Žilina, Slovakia
44 09:50 09:55	BIOLAB - APPLICATION FOR ONLINE ANALYSIS USING LAB STREAMING LAYER FOR EDUCATION AND RESEARCH PURPOSE M. Kubaščík, A. Tupý, J. Šumský, T. Bača, University of Žilina, Žilina, Slovakia
45 09:55 10:00	THE POSTMODERN LEARNER IN A DIGITAL AGE: EXPLORING THE IMPACT OF NEW MEDIA ON HIGHER EDUCATION PRACTICES A. Hurajová, L. Huraj, University of SS. Cyril and Methodius, Trnava, Slovakia
46 10:00 10:05	THE ROLE OF LEGAL DESIGN AND ARTIFICIAL INTELLIGENCE IN LAW EDUCATION Z. Gyurász, J. Andraško, Comenius University Bratislava, Bratislava, Slovakia
47 10:05 10:10	TEACHING COMPONENT-BASED PROGRAMMING THROUGH MOBILE APP DEVELOPMENT: A CASE STUDY WITH MANAGING AUDIO GRAPH AND UI INTEGRATION M. Čerňanský, P. Hafner, University of SS. Cyril and Methodius, Trnava, Slovakia
48 10:10 10:15	USER-FRIENDLY TOOLS FOR NEW DIGITAL EDUCATION IN COMPUTER SCIENCE A. Kanáliková, E. Rakovská, University of Žilina, Žilina, Slovakia
49 10:15 10:20	A MOBILE APPLICATION FOR ENHANCING EDUCATION OF SCHEDULING AND LOGISTICS O. Lohaj, J. Paralič, L. Kuzyk, Technical University of Košice, Slovakia
50 10:20 10:25	MODERN APPROACHES TO STOCK PRICE FORECASTING: ANALYSIS AND APPLICATION OF MACHINE LEARNING ALGORITHMS D. Čatloch, E. Chovancová, S. Maťašová, Technical University of Košice, Slovakia
51 10:25 10:30	HOW TO OPTIMALLY CONFIGURE STOPPING CRITERIA FOR DISTRIBUTED CONSENSUS ALGORITHMS TO ESTIMATE NETWORK SIZE M. Kenyeres, J. Kenyeres, Slovak Academy of Sciences, Bratislava, Slovakia
52 10:30 10:35	COMPARISON OF TWO METHODS OF ASSOCIATION RULES BASED ON RUNNING TIME FOR DIFFERENT NUMBER OF TRANSACTIONS AND SUPPORT VALUES V. Khorev, R. Krivoš-Belluš, V. Pristaš, M. G. Shridhara, L. Antoni, O. Kridlo, S. Krajči, Pavol Jozef Šafárik University in Košice, Slovakia
53 10:35 10:40	DETECTION PIPELINE WITH CNN CLASSIFIER AND TRANSFER LEARNING LOCALIZER TRAINED ON ANNOTATED, UNLABELLED ROAD PHOTOGRAPHIES A. Morys-Magiera, M. Długosz, P. Skruch, M. Szelest, AGH University of Krakow, Krakow, Poland
54 10:40 10:45	APPROACHES AND STRATEGIES FOR IDENTIFYING BIOACOUSTIC SIGNALS FROM WILDLIFE IN FOREST ENVIRONMENTS M. Janovec, J. Papán, S. Tatarka, University of Žilina, Žilina, Slovakia
55 10:45 10:50	USING MACHINE LEARNING CONCEPTS WITH CONTROLNET FOR EDUCATIONAL ADVANCEMENTS T. Kormaník, M. Gabonai, J. Porubán, Technical University of Košice, Slovakia

56 10:50 10:55	DATA AUGMENTATION WITH CHATGPT FOR TEXT TO SIGN LANGUAGE GLOSS TRANSLATION B. Türkü Ay; Ö. Berfin Mercan; S. Serdar Helli; S. Tanberk, Huawei Türkiye Research and Development Center, İstanbul, Turkey
57 10:55 11:00	SUSTAINABLE AND COST-EFFECTIVE DESIGN PRINCIPLES FOR A SAFER AND MORE EFFICIENT MACHINE I. Klačková, Z. Ságová, University of Žilina, Žilina, Slovakia
58 11:00 11:05	INDUSTRY-UNIVERSITY COLLABORATION ENHANCED BY NEW AUTOMATED DRIVING TECHNOLOGIES P. Skruch, M. Komorkiewicz, D. Marchewka, Aptiv Services Poland S.A., Krakow, Poland
59 11:05 11:10	DEVELOPMENT OF UNIVERSAL ADMINISTRATION MODULE FOR ONLINE 3D BODY ANATOMICAL ATLAS M. Gorny, M. Chabada, M. Kvassay, University of Žilina, Žilina, Slovakia
60 11:10 11:15	DEVELOPMENT OF A MOTORIZED APPROACH MECHANISM OF MICROSCOPIC CAMERA FOR LABORATORY FLASKS K. Dudová, N. Ferenčík, P. Kolembusová, L. Bednarčíková, W. Steingartner, J. Živčák, Technical University of Košice, Slovakia
61 11:15 11:20	DEVELOPMENT OF EMBEDDED SYSTEMS T. Bača, A. Tupý, J. Šumský, M. Kubaščík, University of Žilina, Žilina, Slovakia
62 11:20 11:25	INSPECTION OF MAXIMUM POWER POINT TRACKING METHODS SUITABLE FOR LOW-POWER ELECTRONICS T. Michalka, A. Hudec, R. Ondica, V. Stopjaková, Slovak University of Technology in Bratislava, Slovakia
63 11:25 11:30	APPROXIMATIONS OF INDUCTOR CURRENT FOR A FULLY ON-CHIP CONVENTIONAL BOOST CONVERTER IN DISCONTINUOUS CONDUCTION MODE R. Ondica, M. Kováč, M. Potočný, D. Arbet, V. Stopjaková, Slovak University of Technology in Bratislava, Slovakia
64 11:30 11:35	ALGORITHMIZATION AND PROGRAMMING IN THE LIGHT OF STUDENTS' PERSPECTIVES J. Jurinová, I. Dirgová Luptáková, University of SS. Cyril and Methodius, Trnava, Slovakia
65 11:35 11:40	MUTATIONS OF CRYPTOGRAPHIC ALGORITHMS P. Pekarčík, E. Chovancová, Technical University of Košice, Slovakia
66 11:40 11:45	NEW APPROACHES IN 3D PRINTING TEACHING A. Tupý, T. Bača, J. Šumský, M. Kubaščík, University of Žilina, Žilina, Slovakia

ICETA 2024 Organizing Committee reserves its right to change the conference program anytime during the conference days due to act of force majeure.