IVUS 2025

INTERNATIONAL CONFERENCE INFORMATION SOCIETY AND UNIVERSITY STUDIES

VYTAUTAS MAGNUS UNIVERSITY
Faculty of Informatics

9:30-10:00 REGISTRATION

10:00-10:10 OPENING. WELCOME AND INTRODUCTORY REMARKS (ROOM 154)

10:10-10:35 AI-DRIVEN INDUSTRIAL AND MANUFACTURING APPLICATIONS
KEY NOTE SPEAKERS. TAUTVYDAS BUZAS, SAULIUS KAUKĖNAS. AGMIS.

10:35-11:00 INNOVATING THE FUTURE: FESTO AUTOMATION JOURNEY
KEY NOTE SPEAKER. ESLAM GHANDOUR. FESTO.

	SESSION I (ROOM 154)	SESSION II (ROOM 205)
11:00 11:15	WHITE BLOOD CELL CLASSIFICATION BASED ON EVOLUTIONARY OPTIMIZATION OF NEURAL NETWORK AGNIESZKA POLOWCZYK, ALICJA POLOWCZYK, JAKUB KANCEREK	REALTIME HUMAN BODY REPLACEMENT WITH A 3D MODEL MARTYNAS KUČYS, ANDRIUS KRIŠČIŪNAS
11:15 11:30	IMPROVING DEEPFASHION DATASET CLASSIFICATION ACCURACY WITH STYLEGAN2-ADA: ADDRESSING IMBALANCED DATA IN FASHION IMAGE RECOGNITION AGNĖ MOLEIKAITYTĖ, JONAS PAULAUSKAS	CAMOUFLAGED OBJECT DETECTION USING CONVOLUTIONAL NEURAL NETWORK KAROLIS MICKEVIČIUS, ARŪNAS LIPNICKAS
11:30 11:45	DEEP LEARNING-BASED SKIN CANCER CLASSIFICATION: A COMPARATIVE STUDY OF PRETRAINED CNN MODELS MUKHRIDDIN ARABBOEV, SHOHRUH BEGMATOV, MOKHIRJON RIKHSIVOEV, SUKHROB BOBOJANOV, GAYRAT TANGRIBERGANOV, JAMOLIDDIN URAIMOV	3D OBJECT GENERATION USING DEEP LEARNING ALGORITHMS ALGIRDAS POCIUS, EGLĖ BUTKEVIČIŪTĖ
11:45 12:00	NEUROSYMBOLIC MODELING OF VISUAL DATA WITH SPARSE GENERATIVE EMBEDDINGS SERGE DOLGIKH, OLEKSANDR SLIUSARENKO	URBAN ROAD SEGMENTATION WITH TRANSFORMERS BARTAS LISAUSKAS, RYTIS MASKELIŪNAS
12:00 - 13:00	LUNCH BREAK	
13:00 13:15	PRIVACY-PRESERVING MODEL FOR DECENTRALIZED DIGITAL IDENTITY UNDER EU COMPLIANCE MYKOLAS RUTKAUSKAS, LAURA ATMANAVIČIŪTĖ, SAULIUS MASTEIKA	COMPARATIVE ANALYSIS OF SURROGATE MODEL ARCHITECTURES FOR LIME FOR INTRUSION DETECTION ENHANCEMENT MANTAS BACEVIČIUS, AGNĖ PAULAUSKAITĖ-TARASEVIČIENĖ
13:15 13:30	ENHANCING PRIVACY AND SECURITY OF CUSTOMER DATA MANAGEMENT IN E-COMMERCE LINAS ABLONSKIS, RIMANTAS BUTLERIS, AUDRIUS LOPATA, GIEDRIUS SIREVIČIUS, SIMONAS STEPANOVAS, MINDAUGAS VASILJEVAS	DECISION TREES VERSUS RANDOM FOREST FOR DDOS ATTACK CLASSIFICATION ARTUR KOSTERA
13:30 13:45	COMPARATIVE ANALYSIS AND IMPLEMENTATION OF ZERO - KNOWLEDGE PROOF LIBRARIES FOR DIGITAL IDENTITY ARISTIDAS LUKAS KONČIUS, GINTARĖ KOŠUBIENĖ, LAURA ATMANAVIČIŪTĖ, SAULIUS MASTEIKA	STEALTH TRACKING: THE HIDDEN THREATS OF BROWSER FINGERPRINTING AND PHISHING OLEKSII CHALYI, LAURYNAS PIVORAS, KĘSTUTIS DRIAUNYS
13:45 14:00	DIGITALIZATION OF IT HELPDESK OPERATIONS BASED ON EXECUTABLE BUSINESS PROCESS MODELS AND ARTIFICIAL INTELLIGENCE TECHNOLOGY SAULIUS GUDAUSKAS, TOMAS SKERSYS	VOTINGAID: A RETRIEVAL-AUGMENTED LLM APPROACH FOR POLITICAL DECISION-MAKING NICOLAS MAHN, NADEEM ABBAS
14:00 14:15	ACCESS CONTROL APPROACH IN MICROSERVICES ARCHITECTURE ERNESTAS SERKOVAS	ANALYSING NARRATIVE MANIPULATION IN RUSSIAN TELEGRAM NEWS VIA IMAGE AND TEXT DIVERGENCES MAKSYM BONDAR, MILITA SONGAILAITĖ
14:15 - 14:40	COFFEE BREAK	
14:40 14:55	ENVIRONMENTAL SOUND CLASSIFICATION: INTEGRATING MFCC, MELSPECTROGRAM, AND STATISTICAL FEATURES MAHDI ALLAFI, DALIA ČALNERYTĖ	MACHINE LEARNING METHOD UTILIZATION FOR LITHUANIAN COMPANY CLUSTERING EIMANTAS ZARANKA, DOVILĖ KUIZINIENĖ
14:55 15:10	SIMULATION OF ACOUSTIC WAVE PROPAGATION USING ARTIFICIAL NEURAL NETWORK ALI AL ALHMAD, MAHDI ALLAFI, DALIA ČALNERYTĖ	AUTONOMOUS SOLAR TRACKING WITH B-OPTIMIZED PARTICLE FILTER FOR ENHANCED PERFORMANCE IN DYNAMIC SHADING ENVIRONMENTS MING HUANG, JIEMING MA, KA LOK MAN, SHENG-UEI GUAN, XUE ZHANG
15:10 15:25	DEEP LEARNING-BASED FUTSAL FIELD SEGMENTATION: A COMPARATIVE STUDY OF YOLOV8 AND YOLO11-POSE MODELS SHOHRUH BEGMATOV, MUKHRIDDIN ARABBOEV, MASSIMO ZAGLIO	ENHANCED STATE OF CHARGE PREDICTION FOR LITHIUM-ION BATTERIES USING INFORMER-LSTM FUSION NINGFEI SONG, NANLIN JIN, JINGCHEN WANG, JIE ZHANG, KA LOK MAN, JEREMY S SMITH, YUTAO YUE, HO-PUN LAM
15:25 15:40	PREDICTING SPATIAL DATA OF VIRTUAL REALITY HAND TRACKING JOINTS WITH RECURRENT NEURAL NETWORKS GYTIS DOKŠAS, TOMAS BLAŽAUSKAS	LEAST SQUARES PROGRESSIVE ITERATIVE APPROXIMATION FOR SPLINE CURVE (RE-)CONSTRUCTION USING ADAPTIVE REFINEMENT ŠARŪNAS PALIANSKAS
15:40 - 16:00	CLOSING. CONCLUDING REMARKS (ROOM 154)	