

53rd UEC International mini-Conference

on Informatics, Sciences and Engineering

Conference Agenda
3rd – 4th March, 2025

ORAL PRESENTATION SESSIONS

Monday, 3rd March, 2025 (10:40 – 14:50)

Oral Presentation (East-2 Building, Basement Room B117)

Moderator: Ahmed Miguel Roman Abolhosen

01	10:40 - 11:00	An Effective and Unified Methodology of Generating Random Numbers and Unique Identity of Silicon Devices, Tuan-Kiet DANG, AiQuSci Program, Pham Laboratory (I)
02	11:00 - 11:20	Fourier Transform Profilometry for High Precision Projection, Shuo ZHAN, JUSST Program, Miyamoto Laboratory (S)
03	11:20 - 11:40	Generation of Distortionless 2-Dimensional Optical Vortex Array by Dammann Grating using Electron-Beam Fabrication, Tonmoy Hasan CHOWDHURY, AiQuSci Program, Miyamoto Laboratory (S)
04	11:40 - 12:00	SOV-STG-VLA: SOV Decoding with Specific Target Guided DeNoising and Vision Language Advisor, Junwen CHEN, SESS Program, Yanai Laboratory (J) - Online

Lunch Break (12:00 - 13:30)

Moderator: Luca Malte BARRE

05	13:30 - 13:50	Optimization of Point Set Visualization Based on LineSets and Bézier Splines, Xianghan WEI, JUSST Program, Okamoto Laboratory (I)
06	13:50 - 14:10	Counting Gapped Repeats in String Structures using Suffix Trees, Leon FLAACK, JUSST Program, Mieno Laboratory (I)
07	14:10 - 14:30	Sammo: Incorporating Linear RNNs into Streaming Zipformer Encoders, Wen Shen TEO, AiQuSci Program, Minami Laboratory (I) - Online
08	14:30 - 14:50	Baseball Pitch Classification based on Skeleton Data, Sergio E. HUESCA-FLORES, JUSST Program, Takahashi Laboratory (J)

Oral Presentation Closing Remarks

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POSTER PRESENTATION SESSIONS

Tuesday, 4th March, 2025 (11:00-13:00)

Poster Session (East-36 Building)

Right click on  and open the video in a new window

Poster No	Poster Title	Short Presentation Video
P01	Micromechanical Simulation using Discrete and Finite Elements applied to Soil Liquefaction, Gamaliel DEWANTO, SESS Program, Matuttis Laboratory (M)	
P02	STRUCTURED LIGHT MEETS ULTRA-COLD ATOMS, Urgunoon SALEEM, SESS Program, Miyamoto Laboratory (S)	
P03	Interferometric Evaluation of Stokes Camera, Monia AKTER, SESS Program, Miyamoto Laboratory (S)	
P04	Transport Properties of Silicon Carbide Nanoribbons (SiCNRBs), Muhammad HASSAN, GECHA Program, Nakamura Laboratory (S)	
P05	Vortex Formation in Gas-Liquid Bose-Bose Mixtures, Hieu LE BINH, SESS Program, Saito Laboratory (S)	
P06	Ground State of Spin-1 and Spin-2 Bose-Einstein Condensates, Uyen MAI, SESS Program, Saito Laboratory (S)	
P07	A 20 MHz Input Frequency 4 GHz Cascade Fractional-N PLL with Multi-Phase Multi-Frequency, Thi Viet Ha NGUYEN, GECHA Program, Pham Laboratory (I)	
P08	Implementation of ASCON Lightweight Cryptography for IoT Applications, Khai-Duy NGUYEN, GECHA Program, Pham Laboratory (I)	
P09	Optimized Graph Neural Network Approach for 3D Human Pose Estimation, Luis ACEVEDO BRINGAS, GECHA Program, Takahashi Laboratory (J)	
P10	Leap Motion and Hand Tracking Technologies: Air writing, Tiesheng YIN, JUSST Program, Choo Laboratory (IEC)	
P11	Estimation of lower limb muscle activity During walking in elderly people using markerless motion capture technology, Theodore Reangpusri, JUSST Program, Okada Laboratory (M)	
P12	EHD Technology applied to Soft Robotics, Ahmed Miguel ROMAN ABOLHOSEN, SESS Program, Shintake Laboratory (M)	
P13	Prevention of Aspiration Pneumonia Using in Ear Audio, Pettersson Filip, JUSST Program, Koike Laboratory (M)	
P14	An Adaptive Evolutionary Algorithm for Dynamic Multi-objective Optimization, Tasin Mobin Mohtadi, JUSST Program, Sato Laboratory (J)	
P15	Evolutionary Multi Objective Transfer Optimization, Fermin DEL VALLE, JUSST Program, Sato Laboratory (J)	
P16	Recognition-based image authentication: A comparison of authentication methods, Hugo NORDENSTROM, JUSST Program, Takada Laboratory (J)	
P17	BTDCGANet: An Advanced Deep Transfer Learning and Generative Adversarial Network- Based Data Augmentation Approach for Brain Tumor Classification from Magnetic Resonance Imaging (MRI) Scans, Shabnur Anonna Akhy, JUSST Program, Shouno Laboratory (J)	
P18	Data Hiding Components for Solving Information Security Issues in DICOM Medical Images, Juan MOSCO, JUSST Program, Shouno Laboratory (J)	
P19	Bengali Diff: Diffusion Model for One-Shot Bengali Font Generation, Md Bilayet Hossain, JUSST Program, Yanai Laboratory (J)	
P20	Deep Learning Based Japanese Sign Language Translation, Rattapoom KEDTIWERASAK, SESS Program, Takahashi Laboratory (J)	

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P21	The Influence of Virtual Non-creature Human-Like Avatars on the User, Luca Malte BARRE, GECHA Program, Hirota Laboratory (J)	
P22	Non-Contact Heart Rate Monitoring of Anesthetized Laboratory Animals Using Doppler Radar Technology, Ta Hoai Nam, GECHA Program, Sun Laboratory (M)	
P23	An evaluation of multi-core and V extension RISC-V processor, The-Binh NGUYEN, SESS Program, Pham Laboratory (I)	
Closing Remarks		

UEC Map

- Oral Presentation East-2 building (3rd Mar 2025, 10:40 - 14:50)
- Poster Presentation East-36 building (4th Mar 2025, 11:00 - 13:00)

