

48th UEC International mini-Conference on Informatics, Sciences and Engineering

8th - 9th August, 2022
Conference Agenda

ORAL PRESENTATION SESSIONS Monday, 8th August, 2022

Oral Presentation (In E2-B117 and Online)	
(Session 1) Short-term Exchange Study JUSST Program Chairperson: Oscar Alam Guzman	
10:00 - 10:20	Memory Modification Attacks in Windows on x64 Architecture , Lukas Palmqvist, Blekinge Institute of Technology, Sweden (Santoso Laboratory)
10:20 - 10:40	Integration, Detection and Encryption of QR Codes of Chromatic QR codes , Noemi SAN AGUSTIN, National Polytechnic Institute, Mexico (WASHIZAWA Laboratory)
10:40 - 11:00	Fast Jukebox: Accelerating Music Generation with Knowledge Distillation , Michel Pezzat Morales, National Polytechnic Institute, Mexico (NAKASHIKA Laboratory)
11:00 - 11:20	Enhancement of Signal Integrity by Metamaterial , Chaoming XIA, University of Electronic Science and Technology of China, China (KAYANO Laboratory)
11:20 - 11:50	Highly functional soft robotic material based on organic photovoltaic (OPV) and dielectric elastomer actuator (DEA) , Ahmed ROMAN, National Polytechnic Institute, Mexico (SHINTAKE Laboratory)
Lunch Break (11:50 - 13:00)	
(Session 2) MEXT Scholarship MICH & AiQuSci Program Chairperson: Ali Mehdi	
13:00 - 13:13	Feedforward Ring Oscillators for Physical Unclonable Functions , Tuan-Kiet DANG (PHAM Laboratory)
13:13 - 13:26	Morphology Acquisition for Japanese using N-gram Language Model , Wen Shen TEO (MINAMI Laboratory)
13:26 - 13:39	Cascaded Deep Graphical Convolutional Neural Network for 2D Hand Pose Estimation , Sartaj Ahmed SALMAN (TAKAHASHI Laboratory)
13:39 - 13:52	Thunderstorms and Total Lightning Characteristics Causing Heavy Precipitation in Japan , Debrupa MONDAL (HOBARA Laboratory)
13:52 - 14:05	Segment-Wise Classification Model for Prosthetic Hand Control Using sEMG and FMG , Peiji CHEN (JIANG Laboratory)
Break (14:05 - 14:15)	
(Session 3) MEXT Scholarship MICH & AiQuSci Program Chairperson: Ali Mehdi	
14:15 - 14:28	Suppressed Singlet-Triplet and Triplet-Triplet Energy Transfer to Allow Brighter Afterglow , Ende Hopsah BADRIYAH (HIRATA Laboratory)
14:28 - 14:41	MBE Crystal Growth of In-Plane Ultrahigh-Density InAs Quantum Dots , Sim Jui OON (YAMAGUCHI Laboratory)

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14:41 - 14:54	B-doped Fullerene as a Catalyst in CO Reduction Reaction , Arikasuci Fitonna RIDASSEPRI (NAKAMURA Laboratory)
14:54 - 15:07	Phase Transform and Ground State of Two-component Dipolar BEC Supersolid , Shaoxiong LI (SAITO Laboratory)
15:07 - 15:20	Detection Technique to Measure Single-photon Level Ultrafast Cross-correlation Signal using Asynchronous Optical Sampling , Prasad KOVIRI (MINOSHIMA Laboratory)
Oral Presentation Closing Remarks	

The oral presentation is held in room E2-B117. Therefore, ***the presenter of the oral presentation, please gather in E2-B117 at least 15 min before your session start.***

For the audience who not be able to attend in person, you could attend online from the following Zoom meeting link. <https://uec-tokyo.zoom.us/j/94917329217?pwd=a29PckVoUUp6YTFXRTZ4TkFuaTJTQT09>

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POSTER PRESENTATION SESSIONS
Tuesday, 9th August, 2022

Short Presentation and Poster Session online platform

<https://app.wonder.me/?spaceId=568a2bfe-8d20-41c9-9da2-9e75968dcf9e>

5 min Short Presentation of the Poster Session (online)	
(Short Presentation Session) MEXT Scholarship MICH & AiQuSci Program Chairperson: Oscar Alam Guzman	
11:00 -11:05	Elucidate the Mechanism of Boiling Phenomenon and Two-Phase Flow in Subcooled Flow Boiling at Low Pressure , Binh NGUYEN (OKAWA Laboratory)
11:05 - 11:10	IoT Enabled Mobile Edge Cloud Using Partial Offloading Scheme , Hafiz Hasnain IMTIAZ (TANG Laboratory)
11:10 - 11:15	Parallel Queries for Human-Object Interaction Detection , Junwen CHEN (YANAI Laboratory)
11:15 - 11:20	A DFT Study on the Electronic Structure of 1D Zigzag Graphene Nano-Ribbons , Jawahir Ali SHARIFI (NAKAMURA Laboratory)
11:20 - 11:25	Evolution and Use of Satellite Remote Sensing in Ecological Vulnerability Assessment: A Review , Muhammad KAMRAN (YAMAMOTO Laboratory)
Online Poster Session (12:00-14:00)	
JT 1	Object Assembly System for Dual Arm Robot Base on Deep Reinforcement Learning , Tai Ting TSAI, Tamkang University (TKU), Taiwan (AOYAMA Laboratory)
JT 2	Detection system of hemorrhages in human visual , Cesar RIOJA GARCIA, National Polytechnic Institute (IPN), Mexico (YANAI Laboratory)
JT 3	Removal of Haze Effects in Video Monitoring Using Deep Learning , Victor RINCON-MELCHOR, National Polytechnic Institute (IPN), Mexico (YANAI Laboratory)
JT 4	The Loop Closure Detection Base on 3D LiDAR Simultaneous localization and Mapping , Yun Hung Ho, Tamkang University (TKU), Taiwan (KANAMORI Laboratory)
JT 5	Energy Based Model for Age Estimation Using Speech Data , Marco HARO, National Polytechnic Institute (IPN), Mexico (NAKASHIKA Laboratory)
JT 6	A Case Study on the Methodology for the Development of Renewable Energy in South Korea , Kim Taehyung, Changwon National University, Korea (YAMADA Laboratory)
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Closing Remarks	

JT - Japanese University Studies in Science & Technology (JUSST) Program

MH - Multifaceted International Collaboration Hubs (MICH) Program

AS- Fusion of AI and Quantum Sciences for Developing Innovative Human Resources (AiQuSci) Program