

Thursday 12 December 2024, Presentations

Session 4A, 11:00 in room **CB11.00.401**

Oral Presentations

Invited Paper #1, Dr Ali Mehrabi,

HARDWARE-BASED SPIKING NEURAL NETWORKS FOR REAL-TIME HAND GESTURE RECOGNITION USING MYO ARMBAND EMG SIGNALS: APPLICATIONS IN ROBOTIC AND MYOELECTRIC PROSTHETIC HANDS

TCE-2024-10-3062 - Cyberbullying Detection Using Consumer Electronics Data and Contextualised Analysis: A Review; nabiallah.rezvani@hdr.mq.edu.au, nabi.rezvani@gmail.com; Mr. Rezvani;

#27 1571082523: *[Design and Implementation of Wideband MIMO Antenna for 6G THz Systems](#)*

Authors	Amin Al Ka'bi (Australian University - Kuwait, Kuwait)
Paper title	<i>Design and Implementation of Wideband MIMO Antenna for 6G THz Systems</i>

TCE-2024-10-3055 - Dual-GAN based Plantar Pressure Data Augmentation for Identity Recognition; chlee@ntut.edu.tw ; Prof. Lee;

Thursday 12 December 2024, Presentations

Session 4B, 12:00 in room **CB11.00.401**

Online Presentations

TCE-2024-10-3057; Offline Text-Independent Writer Identification Using Multistage Deformable Convolutional Network; Okawa, Manabu (contact);
mnb_okawa7@a.tsukuba-tech.ac.jp, m_okawa.lab1@m.ieice.org; Dr. Okawa

TCE-2024-10-3079

Enhancing Code Transformation in Large Language Models by Retrieval-augmented Fine-tuning Code jmguo@seed.net.tw

#82 1571099656: [*Introducing CHARM: a Practical Cyber Hygiene Awareness Rating Metric for MSMEs*](#)

Authors	Adel Ibrahim M Alluhayb, Saeed Ur Rehman, Trish Williams and Alireza Jolfaei (Flinders University, Australia)
Paper title	<i>Introducing CHARM: a Practical Cyber Hygiene Awareness Rating Metric for MSMEs</i>

#27 1571082523: [*Design and Implementation of Wideband MIMO Antenna for 6G THz Systems*](#)

Authors	Amin Al Ka'bi (Australian University - Kuwait, Kuwait)
Paper title	<i>Design and Implementation of Wideband MIMO Antenna for 6G THz Systems</i>

Thursday 12 December 2024, Presentations

Session 5A, 14:00 in room **CB11.00.401**

Online Presentations

#49 1571090243: [*Developing Consumer Wearable Compatible Computational Models for Non-Invasive Glucose Estimation in Diabetes Patients*](#)

Authors	Thilini Savindya Karunaratna (Kyoto University of Advanced Science, Japan); Zilu Liang (Kyoto University of Advanced Science, Japan & The University of Tokyo, Japan)
Paper title	<i>Developing Consumer Wearable Compatible Computational Models for Non-Invasive Glucose Estimation in Diabetes Patients</i>

#68 1571097100: [*A Study on Cyber Security Laws and Regulations in Australia*](#)

Authors	Harmeet Kaur, Balpreet Balpreet, Anu Anu, Harpreet Kaur, Shinee Shinee and Saman Shojae Chaeikar (Sydney International School of Technology and Commerce, Australia)
Paper title	<i>A Study on Cyber Security Laws and Regulations in Australia</i>

TCE-2024-10-3049

Improved Semantic Segmentation with Large-scale Attention-based Self-supervised Few-shot Learning jmguo@seed.net.tw

Oral Presentations

TCE-2024-10-3091 - Optical In-Display Fingerprint Authentication System based on Improved AKAZE Descriptor for Portable Consumer Devices; ylchen@mail.ntut.edu.tw, ylchen.ntut@gmail.com; Prof. Chen;

Thursday 12 December 2024, Presentations

Session 6B, 14:00 in room **CB11.00.401**

Poster Presentations

#15 1571078094: [*Improved Privacy-Secured Face Direction Estimation Using Point Cloud Data and Deep Learning*](#)

Authors	Ryodai Takagi and Chinthaka Premachandra (Shibaura Institute of Technology, Japan)
Paper title	<i>Improved Privacy-Secured Face Direction Estimation Using Point Cloud Data and Deep Learning</i>

#22 1571078369: [*Epileptic Seizure Detection & Prediction Using Deep Learning Based EEG Signal Analytic Mobile Smart Device Technology*](#)

Authors	Jeongyoon Shin and Jong-Moon Chung (Yonsei University, Korea (South))
Paper title	<i>Epileptic Seizure Detection & Prediction Using Deep Learning Based EEG Signal Analytic Mobile Smart Device Technology</i>

#41 1571089400: [*Hierarchical Evolutionary Optimization with Predictive Modelling for Stable Delay-Constrained Routing in Vehicular Networks*](#)

Authors	Zhiou Zhang (University of New South Wales, Australia); Weian Guo (Tongji University, China); Qin Zhang and Meibin Lin (Fuzhou Polytechnic College, China); Dongyang Li (Tongji University, China)
Paper title	<i>Hierarchical Evolutionary Optimization with Predictive Modeling for Stable Delay-Constrained Routing in Vehicular Networks</i>

#45 1571089673: [*Demonstration of WebRTC-Based Video Conferencing with Tactile Sensations*](#)

Authors	Yongjun Lee and Dongho You (Hannam University, Korea (South))
Paper title	<i>Demonstration of WebRTC-Based Video Conferencing with Tactile Sensations</i>