ABSTRACT & PROGRAM ICEBA 2024

The 5th International Conference on Engineering, Physics, MEMS-Biosensors and Applications

Host by VNUHCM-University of Science (Vietnam) Tohoku University (Japan) Mien Tay Construction University (Vietnam)



November 11&12, 2024

Organizers

























Technical Supports



Program

The 5th International Conference on Engineering, Physics, MEMS-Biosensors and Applications (ICEBA2024)

November 11&12, 2024;

Ho Chi Minh City and Vinh Long Province, Vietnam

*November 10th (Sunday) at HoChiMinh city

- .12:00-18:00. Registration
- .17:00-18:00. Meeting of Program Committee and Chair/co-chair session of ICEBA2024 at Ky Hoa Hotel (238, 3 thang 2 Street, District 10, Ho Chi Minh city);
- . 18:00-20:00. ICEBA2024 welcome dinner (Plenary invited speakers, international guests, VIPs, Program Committee...) at Ky Hoa Hotel.

*November 11th (Monday) at Ho Chi Minh city and Vinh Long Province

Time	Contents/Program		Note
07:30-07:45	Registration (Check list, nameplate, Abstract & Program,)	•	rence room: No.1 Auditorium, cience, HCM city, Vietnam.
	IG CEREMONY &PLENA		
No.1 Auditor	rium, 227 Nguyen Van Cu Str., Dist	trict 5, HCMC	
08:00-08:10	1. Introduce Guests (MC)		
08:10-08:25	2. Welcome speeches: - Welcome speech from the president VNUHCM-US; - Speech from Co-General Chairs of Prof. Takahito Ono (Tohoku Univ, Speech from Program Chair of ICAssoc. Prof. Huynh Van Tuan (Deal VNUHCM-US)	f ICEBA2024; <i>Japan);</i> EBA2024	Introduce by MC (Dr.Ho Thanh Huy and Ms. Hua Thi Hoang Yen)
08:25-08:40	3. Offer the gifts for invited speakers . Plenary invited talks	Prof. T.Ishida, F	of. T.T. Nang, Prof. S. Jan, Prof. M.Toda, Prof. rof. K.S. Min, Prof. K.Y.Lai nh;
	. Invited talks	MC: All invited	speakers in 8 parallel sessions
08:40-08:50	4. Offer the gifts for Technical supporters and sponsors ICEBA2024		Taiwan), Synopsys Vietnam, EMI SEA, Redsun, Mantis,
08:50-09:00	5. The 5 th Anniversary of ICEBA International Conference	- Certificate of	w of ICEBA2013-2024 Appreciation for ICEBA2024: cientists/leaders and 2 units U)
09:00-09:10	6. MoU Signing Ceremony for the 6th ICEBA2025 (Vietnam and Taiwan)	VNUHCM-US NCU-DOP (Tai	(Vietnam), ToU (Japan), wan)

09:10-09:20	Coffee break	Lobby
	7. Plenary invited talk Session: 15 Chair: Prof. Masaya Toda (Tohoku Co-Chair: Assoc. Prof. Nguyen Van	
09:20-09:40	. Plenary #1 (code: PL.01-01): Prof. Tran Tri Nang University of Minnesota, USA	Four-side buttable CMOS imaging modules for CT systems
09:40-10:00	. Plenary #2 (code: PL.01-02): Prof. Takohito Ono Tohoku University, Japan	Micro/Nanomechanical Sensors for Health and IoT
10:00-10:20	. Plenary #3 (code: PL.01-03): Mr. Nguyen Phuc Vinh-MSc ARA, Synopsys, Vietnam	Edge Artificial Intelligence (AI) Mega Trends and AI Solutions in IC Design Automation
10:20-10:40	. Plenary #4 (code: PL.01-04): Prof. Schulz Jan Jade University of Applied Sciences, Wilhelmshaven, Germany	The influence of tides on LoRa communications in self meshing sensor nodes in coastal and near shore waters
10:40-11:00	. Plenary #5 (code: PL.01-05): Prof. Takekazu Ishida Osaka Metropolitan University, Japan	High-resolution imaging using superconducting sensor under pulsed neutrons
11:00-11:10	Summary of 5 PL talks	Prof. Masaya Toda (Tohoku University, Japan)
11:10-11:20	Closing the plenary session and remark the program ICEBA2024	Assoc. Prof. N. V.Hieu, General Co-chair ICEBA

Lunch time (11:30-12:45)

2. TRANSPORTATION FOR Vinh Long Province (MTU)

- **. 13:00-13:30.** Pick up by Limousine bus of Conference (Bus 01, Bus02, Bus03 at main gate of University of Science);
- **. 13:30-15:30.** Departure for Vinh Long Province (110 km);
- . 15:30-16:00. Check in hotel.
- . 16:00-16:30. City tour meeting point at Kinh Thay Cai bridge (14km far from MTU), Vinh Long Province
- . 16:40-18:00. Sightseeing tour in Vinh Long city.
- . 18:30-21:00. Conference 's Welcome dinner.

*November 12nd (Tuesday) at Vinh Long Province and HoChiMinh city

1. PARALLEL SESSION: 07:30-10:15

Location: Mien Tay Construction University, Vinh Long Province *Invited talk: 15 min (12 min for talk and 3 min for discussion);* Oral presentation: 12 min (10 min for talk and 2 min for discussion).

Session 1. Engineering Physics and Electrical & Electronic Engineering Room 101, Science Research Building - Campus B, Mien Tay Construction University

- Chair and Co-chairs:
- . Assoc. Prof. Le Vu Tuan Hung (VNUHCM-University of Science, Vietnam);
- . Prof. Kun Yu Lai (National Central University, Taiwan);
- . Assoc. Prof. Vo Luong Hong Phuoc (VNUHCM-University of Science, Vietnam);
- Secretary: Nguyen Duy Khanh-MSc (VNUHCM-University of Science, Vietnam);

Link online: meet.google.com/ara-wbgm-dib

Schedule	Name of invited speakers	Title of talks
07:30-07:45	Invited talk S1-01-I Prof. Le Vu Tuan Hung VNUHCM-US, Vietnam	The high performance SERS substrate based on semiconductor and nano nanoparticles metal for detecting banned chemical trace in food, drug, and cosmetic.
07:45-08:00	Invited talk S1-02-I Prof. Chi-Hsien Huang MCUT, Taiwan	Biosensors fearuting an atomic layered graphene oxide/graphene composite
08:00-08:15	Invited talk S1-03-I (online) Assoc. Prof. Nguyen Hoang Nam University of Science, VNU Hanoi, Vietnam	Preparation and Biomedical application of Iron-based functional nanoparticle
	Coffee break	(15 mins)
08:30-08:42	Oral S1-01-O Thi Kim Thao Nguyen, Van Tuan Le and Luong Hong Phuoc Vo	Application of MIKE 21/3 Coupled Model FM for selecting a suitable coastal protection scheme for Hiep Thanh commune, Tra Vinh province (Vietnam)
08:42-08:54	Oral S1-02-O Thanh Minh Nguyen, Chung Tran and Hong Phuoc Vo Luong	Thi Kim Thao Nguyen, Van Tuan Le and Luong Hong Phuoc Vo
08:54-09:06	Oral S1-03-O Duc Anh Nguyen and Hong Phuoc Vo Luong	Forecasting and assessing water demand and rice production in an giang in 2024 by using the cropwat and oryza models
09:06-09:18	Oral S1-04-O Duy Thanh Cu, Meng-Fu Chi and Chien- Cheng Kuo	A Novel Approach to Semiconductor Manufacturing Equipment Corrosion Protection: Fluoride Passivation of Y ₂ O ₃ and YAG Films
09:18-09:30	Oral S1-05-O Duy Thanh Cu, Meng-Fu Chi and Chien- Cheng Kuo	A Novel Approach to Semiconductor Manufacturing Equipment Corrosion Protection: Fluoride Passivation of Y ₂ O ₃ and YAG Films
09:30-09:42	Oral S1-06-O Huy Kim Nhat, Thuy Doan Khanh Huynh, Fan-Ching Chien and Kun-Yu Lai	DNA Test Using Nitride Surface-Enhanced Raman Spectroscopy and Machine Learning
09:42-09:54	Oral S1-07-O Thuy Doan Khanh Huynh, Huy Kim Nhat, Fan-Ching Chien and Kun-Yu Lai	Cancer Diagnosis with Human Blood Plasma Using Nitride Surface-Enhanced Raman Spectroscopy

Session 2. Medical Physics and Nuclear Engineering Room 102, Science Research Building - Campus B, Mien Tay Construction University

- Chair and Co-chairs:
- . Prof. T. Ishida (Osaka Metropolitan University, Japan);
- . Dr. Vo Hong Hai (VNUHCM-University of Science, Vietnam)
- Secretary: Hua Thi Hoang Yen- MSc (VNUHCM-University of Science, Vietnam)

Link online: 1	meet.google.com/ara-wbgm-dib	
07:30-07:45	Invited talk S2-01-I Dr. MD Abdul Momin (University of Pittsburgh, United States)	Toward the Fabrication of Wearable Devices for Biomedical Applications: Human Activity and Cardiovascular Monitoring
07:45-08:00	Invited talk S2-02-I (online) Asst. Prof. Vu The Dang (Osaka Metropolitan University, Japan)	Transmission of Metals with Negative and Positive Scattering Length Density for Neutrons Using CB- KID Sensor
08:00-08:12	Oral S2-02-O Yen Thi Hoang Hua and Liet Dang Van	Denoising Techniques for Enhanced Mammogram Analysis
	Coffee break	x (15 mins)
08:27-08:39	Oral S2-02-O Thanh Nhan Huynh, Hoang Minh Le, Duy Thong Nguyen, Thien Thanh Tran and Van Tao Chau	Use Machine Learning to classify materials based on gamma scattering spectra
Room 303, S - Chair and C . Assoc. Prof Prof. Satoru - Secretary: T	cience Research Building - Campu	ersity, Japan)
07:30-07:45	Invited talk S3-01-I Prof. Satoru Noguchi (Osaka Metropolitan University, Japan)	Development of Pulsed Magnetic Field Environment up to 50T below 1K
07:45-08:00	Invited talk S3-02-I Asst. Prof. Dr. Gaopeng Xue (Harbin Institute of Technology, China)	Glass-Based Micro-Hotplate with Low Power Consumption and TGV Structure
08:00-08:15	Invited talk S3-03-I Assoc. Prof. Dr. Le Huu Phuoc (Ming Chi University of Technology, Taiwan)	Recent advances in half-Heusler thermoelectrics
	Invited talk S3-04-I	Faculty of Physics and Engineering Physics – Developing the field of semiconductor technology for

Assoc. Prof. Dr. Tran Quang Trung

Vietnam)

Vu Thi

Oral S3-01-O

Oral S3-02-0

Nguyen and Trung Tran

(VNUHCM- University of Science,

Nhan Nguyen Trong, Quynh Trang Ton

Nu, Gia Bao Nguyen Tran and Hanh Thu

Nguyen Tran, Khanh Pham, Hieu Pham,

Danh Nguyen, Giang Huynh, Bao

08:15-08:30

08:45-08:57

08:57-09:09

Developing the field of semiconductor technology for

Fabrication and Research the AgNCs/AuNSs@PP

Building and programing of scara robot wafer

manipulation for the sample manufacturing process

Nanostructures for SERS Platform

using STM32 microcontrollers

training and research

Coffee break (15 mins)

09:10-09:22	Oral S3-03-O Anomalous Hall Effect in Co and Co (0001)/TMs interface: first-principles study	Thi Ly Trinh, Bui Trung Kien Nguyen and Duc Cuong Do
09:22-09:34	Oral S3-04-O Thanh Tan Cuong Mai, Thanh Huy Ho, Nguyen Toan, Chi Nhan Nguyen and Van Hieu Nguyen	The study of heat sink for the optimal power of ThermoElectric Generator (TEGs) in the Aquaponic farm

Session 4A. MEMS, Biosensors, Biomedical Engineering and Application Room 103, Science Research Building - Campus B, Mien Tay Construction University

- Chair and Co-chair:
- . Assoc. Prof. Nguyen Van Toan (Tohoku Univ, Japan)
- . Prof. Congo Tak Ching (NCHU, Taiwan)
- Secretary: Nguyen Thi Tu Trinh-MSc (VNUHCM-University of Science, Vietnam)

	Invited talk S4A-01-I	Microfabricated Thermometers: Focusing on Cellular
07:30-07:45	Assoc. Prof. Dr. Naoki Inomata	Measurement Applications
07.30 07.13	(Tohoku University, Sendai, Japan)	Tr
	Invited talk S4A-02-I	Introduction to SEMI Technology Communities
07.45.00.00	Dr. BK Lok	
07:45-08:00	(SEMI Southeast Asia, Singapore)	
	Invited talk S4A-03-I	Advanced Cooling and Heating Systems Utilizing
08:00-08:15	Asst. Prof. Dr. Truong Thi Kim Tuoi	Nanofluids
	(Tohoku University, Sendai, Japan)	
	Invited talk S4A-04-I	Nanoengineering Nanoporous Silicon Material for
08:15-08:30	Assoc. Prof. Dr. Nguyen Van Toan	Thermal Energy Harvesting
	(Tohoku University, Sendai, Japan)	
	Coffee break	(15 mins)
	Oral S4A-01-O	Novel solution to improve the moss bag technique in
08:45-08:57	Trieu Le Ngoc, Sang Nguyen Thi Minh,	environmental biological monitoring
08:43-08:37	Minh Truong Van, Khiem Le Hong and	
	Son Nguyen An	
	Oral S4A-02-O	Graphene nanoribbons coated on porous stainless steel
08:57-09:09	Phuong Le Ngoc Nam, Tung Ho Quang,	as membrane for air purification and antibacterial
00.57-07.07	Linh Nguyen Khanh, Truc Do Thi Thanh,	ability with low voltage
	Duong Thai and Doanh Tieu Tu	
	Oral S4A-03-O	Motor Status Measurement Using A Highly Sensitivity
09:10-09:22	Akane Kobayashi, Kenji Nakamura and	Magnetic Sensor
	Takahito Ono	
	Oral S4A-04-O	Gas sensing properties of the MIL-100(Fe)/rGO
09:22-09:34	Anh Le, Danh Nguyen, Thanh Nguyen,	composite
	Nguyen Tran, Giang Le and Trung Tran	
	Oral S4A-05-O	Instant Identification of Glucose in Saliva Using
	Thien-Luan Phan, Tun Yu Huang, Hsing-	Microelectrodes with Impedance Analysis
09:34-09:46	Ju Wu, Minh-Khue Ha, Ha Anh T.	
	Nguyen, Ngoc Luan Tran, Anh-Hao	
	Huynh-Vo, Nguyen Van Hieu and Congo	
	Tak Shing Ching	

Session 4B. MEMS, Biosensors, Biomedical Engineering and Application Room 104, Science Research Building - Campus B, Mien Tay Construction University

- Chair and Co-chair:
- . Prof. Masaya Toda (Tohoku Univ, Japan)
- . Assoc. Prof. Nguyen Van Hieu (IPTC-VNUHCM, Vietnam)

- Secretary: Ms. Nguyen Ngoc Thao Nhi (VNUHCM-University of Science, Vietnam)			
07:30-07:45	Invited talk S4B-01-I Nguyen Van Hieu (BiSAE Lab, VNUHCM-University of Science, Vietnam)	The DMF of Lab-On-A-Board for Biomedical Engineering studies	
07:45-08:00	Invited talk S4B-02-I Dr. Khairul Fadzli Samat (Fakulti Teknologi dan Kejuruteraan Industri dan Pembuatan, Universiti Teknikal Malaysia Melaka, Malaysia)	Impact of Graphene and Nanocellulose Incorporation on Bismuth Telluride Nanocomposite Film for Micro Thermoelectric Generator	
08:00-08:15	Invited talk S4B-03-I Dr. Sura Nguyen (Tecnologico de Monterrey, Mexico)	Synthesis and characterization of hierarchical suspended carbon fiber structures decorated with carbon nanotubes	
08:15-08:27	Oral S4B-01-O Ting-Yi Shen, Ngoc-Luan Tran	The Impact of Transcutaneous Vagus Nerve Stimulation on Depression in College Students	
	Coffee break (15 mins)		
08:45-08:57	Oral S4B-02-O Viet Huynh, Tuan Huynh	A Multi-Input Convolutional Neural Network to RecognitionTask Based on Electroencephalogram Signals	
08:57-09:09	Oral S4B-03-O Nhi N.T. Nguyen, Ho Thanh Huy, Thien Luan Phan, Nguyen ChiNhan, Nguyen Van Hieu, Congo Tak Shing Ching	Noninvasive, Nondestructive In Ovo Chicken Egg GenderDetection Using Machine Learning Decision Tree Model	
09:10-09:22	Oral S4B-04-O Hoa Bui	Control robot arm by EEG signal aided by artificialintelligence	
09:22-09:34	Oral S4B-05-O Cuong Le, Tuan Huynh, Trang Doan, Thuan Nguyen	3D prior electrically resisitivity model building formagnetotelluric inversion using neural network algorithm to the Kevitsa mineral deposit, Finland	
09:34-09:46	Oral S4B-06-O Huy Tran Do, Viet Quoc Huynh, Tuan Van Huynh, Thinh Xuan Huynh	Application of machine learning method and artificialneural network architectures in emotion classificationusing electroencephalogram	

Session 5. Microelectronics, Embedded System and AI&IoT Room 201, Science Research Building - Campus B, Mien Tay Construction University

- Chair and Co-chair:
- . Dr. Nguyen Chi Nhan (VNUHCM-US, Vietnam)
- . Dr. Luong Phuoc Toan (MTU, Vietnam)
- Secretary: Vo Hoang Thuy Tien- MSc (VNUHCM-University of Science, Vietnam)

Invited talk S5-01-I	Hermetic Sealing Technology for Electronic
Ms. Tateshiro Asura	Components by Brazing Method
(Ito Group, Nippon Avionic, Japan)	
Invited talk S5-02-I	Stable Gait Optimization For Legged Robots
Dr. Tran Thien Huan	
(Saigon University, Vietnam)	
Invited talk \$5-03-I	Compensation Based on CB MRAS Technique for
Dr. Tran Dinh Cuong	Induction Motor Drives
	Ms. Tateshiro Asura (Ito Group, Nippon Avionic, Japan) Invited talk S5-02-I Dr. Tran Thien Huan (Saigon University, Vietnam) Invited talk S5-03-I

	(Ton Duc Thang University, Vietnam)	
08:15-08:30	Invited talk S5-04-I Dr. Nguyen Chi Nhan (VNUHCM-University of Science, Vietnam)	A slot scheduling technique application in improving battery life cycle in IoT nodes
	Coffee break	` '
08:45-08:57	Oral S5-01-O Assoc. Prof. Dr. Vo Ngoc Dieu (VNUHCM-University of Technology, Vietnam)	An Improved Chaotic-Symbiotic Organisms Search Algorithm for Optimal Scheduling of Electric Vehicle Charging and Discharging in Distribution Systems with Integrated Distributed Generations
08:57-09:09	Oral S5-02-O Dr. Vo Hong Hai (VNUHCM-University of Science, Vietnam)	Development of -Based coincidence electronic using NI MyRIO Hardware for Gama-Gamma angular correlation system.
09:10-09:22	Oral S5-03-O Nguyen Thi Nhu Quynh (VNUHCM-University of Science, Vietnam)	Parkinson's Disease diagnosis by using EEG signals with IClabel and Advanced Ensemble method
09:22-09:34	Oral S5-04-O Vo Hoang Thuy Tien (VNUHCM-University of Science, Vietnam)	Recognition of basic human tastes using EEG signals
09:34-09:46	Oral S5-05-O Tran Hoang Nhut (VNUHCM-University of Science, Vietnam)	An AIoT-Based system for efficient classification
09:46-09:58	Oral S5-06-O Tung Than The (VNUHCM-University of Information Technology)	Real-time object tracking for elderly-care robot: adptive occclusion handling and model updated
10:00-10:12	Oral S5-07-O Tung Than The (VNUHCM-University of Information Technology)	Real-time object tracking for elderly-care robot: adptive occclusion handling and model updated
10:12-10:24	Oral S5-08-O Duy Dieu Nguyen (VNUHCM-University of Information Technology, Vietnam) Computing Science Simulat	Recognize license plates with smart cameras using SoC technology Signal

Session 6. Computing Science, Simulation and Modeling Room 202, Mien Tay Construction University

- Chair and Co-chair:
- . Assoc. Prof. Huynh Van Tuan (VNUHCM-US)
- . Dr. Nguyen Quang Khoi (VNUHCM-US))
- Secretary: Phan Nguyen Thuan-MSc (VNUHCM-University of Science, Vietnam)

07:30-07:45	Invited talk S6-01-I Dr. Nguyen Quang Khoi (VNUHCM-University of Science, Vietnam)	Development of an efficient spectrum modeling of yellow phosphor with high accuracy for white LEDs applications
07:45-08:00	Invited talk S6-03-I Prof. Md. Mahabub Hossain (Hajee Mohammad Danesh Science & Technology University (HSTU))	Seamless real-time thermal imaging system with ESP8266 for wireless data transfer

08:12-08:24	Oral S6-02-O Hien Pham Xuan	Improving the Performance of Actor-Critic PPO Model
	(VNUHCM-University of Science, Vietnam)	based on the Probability of Gaussian Distribution
	Coffee break	(15 mins)
08:40-08:52	Oral S6-03-O Anh Tran (Ho Chi Minh City University of Technology)	Dynamic-Discrete-Set MPC for Interface Converters in Critical DC Micro-grids with Pulsed Loads
08:52-09:04	Oral S6-04-O Nguyen Thi Le Thuy (VNUHCM-University of Science, Vietnam)	Introducing a novel surface electromyography signal dataset for hand movements classification
09:04-09:16	Oral S6-05-O Khanh Quoc Truong (Ho Chi Minh City University of Technology)	Enhancing Speed Response by Implementing Improved Sliding Mode Algorithm and Fuzzy Logic Law in Controlling PMSM
09:16-09:28	Oral S6-06-O C. Si Hoang (VNUHCM-University of Science)	When will Axial Seamount be erupted? Data-Driven Approaches to Volcanology

Session 7. Architecture, Urban planning and Construction Room 203, Mien Tay Construction University

- Chair and Co-chair:

. Dr. Wen-Yi Hung (National Central University, Taiwan)

(Mien Tay Construction University)

- . Co-chair: Dr. Truong Cong Bang (Mien Tay Constructions University, Vietnam)
- Secretary: Nguyen Phuoc Hoang Khang -MSc (VNUHCM-US) and Nguyen Tan Phat MSc (MTU)

	Invited talk S7-01-I	Innovative Approaches to Slope Stability
07:30-07:45	Prof. Wen-Yi Hung	Analysis Using Centrifuge Modeling.
07.30-07.43	(National Central Univwersity,	
	Taiwan)	
	Invited talk S7-02-I	Investigation on the development of non-fired
07:45-07:57	Assoc. Prof. Dr. Bui Quoc Bao	materials without cement
07.43-07.37	(Ton Duc Thang University, Vietnam)	
	6	
07:57-08:10	Oral S7-01-O	The effects of joint networks on the stability of
	Assoc. Prof. Dr. Tran Tuan Minh	two parallel tunnels.
07.57-00.10	(Hanoi University of Mining and	
	Geology, Vietnam)	
	Oral S7-02-O	Evaluation of the pile group effect on the bearing
08:10-08:22	Dr. Lam Ngoc Qui	capacity of precast reinforced concrete piles on
08.10-08.22	(Mien Tay Construction University,	soft soil.
	Vetnam	
Coffee break (15 mins)		
	Oral S7-03-O	Evaluating urban expansion of Mekong Delta's
08:40-08:52	Dr. Trong Nhan Huynh	cities: A Case Study of Tra Vinh City.

08:52-09:04	Oral S7-04-O	Identifying Da Lat identity using Environment-
	Dr. Do Duy Thinh	behavior studies.
	(Ho Chi Minh city University of	
	Technology and Education)	
09:04-09:16	Oral S7-05-O	
	Dr. Do Duy Thinh	Identifying Da Lat identity using Environment-
	(Ho Chi Minh city University of	behavior studies.
	Technology and Education)	
09:16-09:28	Oral S7-06-O	Strategies to enhance capacity of a traffic
	Identifying Da Lat identity using	intersection: case study in Nha Trang city.
	Environment-behavior studies.	

2. POSTER SESSION 08:30-09:00

Lobby of Conference Hall, Mien Tay Construction University, Vinh Long Province

- Chair: Prof. Masaya Toda (Tohoku Univ, Japan)
- Co-Chair: Dr. Ho Thanh Huy (VNUHCM-University of Science, Vietnam)
- Technical Assistant: Huynh Quoc Viet- MSc (VNUHCM-University of Science, Vietnam)

Session 1: S1.01-P, S1.02-P, S1.03-P, S1.04-P, S1.05-P;

Session 2: S2.01-P, S2.02-P;

Session 3: S3.01-P, S3.02-P, S3.03-P, S3.04-P, S3.05-P, S3.06-P, S3.07-P;

Session 4A: S4A.01-P, S4A.02-P; Session 4B: S4B.01-P, S4B.02-P;

Session 5: S5.01-P, S5.02-P, S5.03-P, S5.04-P, S5.04-P;

Session 6: S6.01-P, S6.02-P, S6.03-P, S6.04-P, S6.04-P, S6.05-P. Session 7: S7.01-P, S7.02-P, S7.03-P, S7.04-P, S7.04-P, S7.05-P.

3. CLOSING CEREMONY 10:30-12:30

Location: Hall B, Mien Tay Construction University, Vinh Long Province

Time	Contents/Program	Note
10:30-10:40	1. Introduce Guests and Remark the ICEBA2024 program	MC (by MTU)
	2. Plenary invited talk (cont.) Chair: Prof. Tran Tri Nang (University of Minnesota, USA) Co-Chair: Assoc. Prof. Nguyen Van Hieu (VNUHCM, Vietnam)	
10:40-11:00	. Plenary #1 (code: PL.02-01). Prof. Masaya Toda (Tohoku Univ, Japan)	Atmospheric Radical Detection via Nanomechanical Magnetic Cantilever
11:00-11:20	. Plenary #2 (code: PL.02-02) Prof. Kun-Yu Lai (National Central Univ, Taiwan)	A Rapid Cancer Diagnosis by Nitride Surface- Enhanced Raman Spectroscopy
11:20-11:40	. Plenary #3 (code: PL.02-03) Prof. Congo Tak Shing Ching (National Chung Hsing Univ, Taiwan, R.O.C)	Bioimpedance sensing for detection in various fields
11:40-12:00	. Plenary #4 (code: PL.02-04) Prof. Kyeong- Sik Min	Low-power AI computing circuits with emerging memories

	(Kookmin Univ and KIEEE, Korea)	
12:00-12:05	Summary of 4PL talks	Prof. Tran Tri Nang (University of Minnesota, USA)
12:05-12:15	3. Outstanding Oral and poster presentation	MC
12:15-12:20	4. Welcome for ICEBA2025 in Taiwan	MC (by MTU) Prof. Kun-Yu Lai (DOP, NCU, Taiwan) Program co-chair of ICEBA2025
12:20-12:30	5. Speech for closing ICEBA2024 from MTU	Dr. Truong Cong Bang, Vice President of MTU

4. CONFERENCE GALA

* Time: 12:30-14:00

5. TRANSPORTATION FOR HOCHIMINH CITY: 14:30-16:30

^{*} Location: Mien Tay Construction University, Vinh Long Province