

## **1<sup>st</sup> Announcement**

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

*November 11-12, 2024*

*Ho Chi Minh City and Vinh Long Province, Vietnam*

-----

### **1. The scope of the Conference**

The purpose of the 5<sup>th</sup> ICEBA2024 is to link the researchers and scientists from Vietnam and countries around the world, especially Asian countries, in the fields of engineering, physics, microelectronics, semiconductors, and electronic engineering for their applications in biomedical engineering, health sciences, hi-tech agriculture, and smart cities. Besides, we also contribute to promoting international cooperation activities by joining research projects and international co-publications and proposing good solutions and applied technology for the development of the Mekong Delta area.

### **2. The subject areas**

Contributed papers must be the new research works and are solicited in the following subject areas (but not limited to):

- *Engineering, Engineering Physics and Electrical & Electronic Engineering;*
- *Medical Physics and Nuclear Engineering;*
- *MEMS (MicroElectronMechanical System), Sensors and semiconducting devices, Biomedical Engineering, Digital Microfluidics and their applications;*
- *Microelectronics, IC design, low consumption devices, Renewable Energy;*
- *Computing Science, Simulations and Modeling;*
- *Embedded systems, Internet of Things, Machine Learning, Artificial Intelligence, etc.;*
- *Civil and Geology Engineering;*
- *Constructions, Machines, and Mechanical Engineering.*

### **3. Time: 03 days**

- Nov 10<sup>th</sup>: Registration, check-in, and welcome dinner.
- Nov 11<sup>th</sup>: Opening Ceremony & Plenary talks (at the University of Science, Ho Chi Minh City) and Transportation for Vinh Long Province (Mekong Delta).
- Nov 12<sup>th</sup>: Registration, parallel sessions, poster session, meeting of 6th ICEBA2025, Closing Ceremony, and Conference Banquet (at Vinh Long province).

### **4. Venue:**

- VNUHCM-University of Science, 227 Nguyen Van Cu Str., Dist. 5, Ho Chi Minh City, Vietnam.
- Mien Tay Construction University, 20B Pho Co Dieu Str., Ward 3, Vinh Long City, Vinh Long Province.

**5. Co-organizers:** University of Science (VNUHCM, Vietnam), Tohoku University (Japan), and Mien Tay Construction University (Vinh Long province).

**6. Technical support:** Institute Electrical Engineer of Japan (IEEJ, Japan), IEEE Vietnam Section, Institute of Korean Electrical& Electronic Engineers (IKEEE, Korea), and Ho Chi Minh Semiconducting Industrial Association (HSIA).

## **7. Publication:**

Abstract submitted via EasyChair link:

<https://easychair.org/conferences/?conf=5thiceba2024>

The selected papers (from 4 to 8 pages) will be reviewed or recommended for publication in one of three below Scopus/SCIE/Scimago database Journal (1,2,3) or Vietnamese Journal (4) with fee such as:

- (1) The special issue of Applied Science (MDPI, Scopus, IF:5.3, Q1/Q2);
- (2) IEEJ Transactions on Electrical and Electronic Engineering (Scopus, Q3);
- (3) The special issue of ICEBA on IEEJ-TSM (Scopus, Q4);
- (4) Journal of Construction (Ministry of Construction, Vietnam, ISSN 2734-9888);

## **8. Co-General Chair:**

- . Takahito Ono, *Tohoku University-Japan*
- . Nguyen Van Hieu, *Vietnam National University Ho Chi Minh City, Vietnam*
- . Huynh Van Tuan, *VNUHCM-University of Science, Vietnam*

## **9. Committees of 5<sup>th</sup> ICEBA2024:**

### **\* International Scientific Committee:**

- . Takahito Ono, *Tohoku University-Japan;*
- . Nguyen Van Hieu, *VNUHCM-Vietnam;*
- . Masaya Toda, *Tohoku University-Japan;*
- . Chau Van Tao, *VNUHCM-University of Science-Vietnam;*
- . Do Hong Tuan, *VNUHCM-UT & IEEE Vietnam Section;*
- . Tran Tri Nang, *Minnesota University-USA;*
- . Philippe Durouchux, *ESIEA, France;*
- . Jan Schulz, *Jade Univ. of Applied Sciences- Germany;*
- . Dzung Dao, *Griffith University-Australia;*
- . Donghan Lee, *Chungnam National University-Korea;*
- . Jen-Inn Chyi, *National Central University-Taiwan (R.O.C);*
- . Nguyen Van Xuan, *Mien Tay Construction University-Vietnam;*
- . Le Vu Tuan Hung, *VNUHCM-University of Science-Vietnam;*
- . Kyeong-Sik Min, *Kookmin University& IKEEE-Korea;*

### **\*Program Committee:**

- . Huynh Van Tuan, *VNUHCM-University of Science-Vietnam, Chair;*
- . Nguyen Van Toan, *Tohoku University-Japan, Co-chair;*
- . Truong Cong Bang, *Mien Tay Construction University-Vietnam, Co-chair;*
- . Kun-Yu Lai, *National Central University-Taiwan (R.O.C);*
- . Ching Tak Shing Congo, *National Chung Hsing University-Taiwan (R.O.C);*
- . Tran Thien Thanh, *VNUHCM-University of Science-Vietnam;*
- . Hoang Trang, *VNUHCM-University of Technology-Vietnam;*

- . Huynh Chan Khon, *VNUHCM-International University-Vietnam*;
- . Vu The Dang, *Osaka Metropolitan University-Japan*;
- . Nguyen Chi Nhan, *VNUHCM-University of Science-Vietnam*;
- . Pham Thanh Trung, *Namur University-Belgium*;
- . Nguyen Hoang Nam, *VNU Ha Noi-University of Science-Vietnam*;
- . Aie Boosong, *RMUTK, Bangkok, Thailand*;
- . Nguyen Phuc Vinh, *Synopsys Vietnam*;
- . Nguyen Quang Khoi, *VNUHCM-University of Science-Vietnam*
- . Nguyen Chi Linh, *VNUHCM-University of Science-Vietnam*

**\*Publication Committee:**

- . Takahito Ono, *Tohoku University-Japan*;
- . Nguyen Van Hieu, *Vietnam National University HCMC, Vietnam*;
- . Masaya Toda, *Tohoku University-Japan*;
- . Huynh Van Tuan, *VNUHCM-University of Science-Vietnam*;
- . Nguyen Van Xuan, *Mien Tay Construction University-Vietnam*;

**\* Local Organizing Committee:**

- . Nguyen Chi Nhan, *VNUHCM-University of Science-Vietnam, Chair*;
- . Vo Hong Hai, *VNUHCM-University of Science-Vietnam, Co-chair*;
- . Dao Huy Hoang, *Mien Tay Construction University*;
- . Ho Thanh Huy, *VNUHCM-University of Science-Vietnam*;
- . Huynh Thanh Nhan, *VNUHCM-University of Science-Vietnam*;
- . Do Duc Cuong, *VNUHCM-University of Science-Vietnam*;
- . Trinh Thi Ly, *VNUHCM-University of Science-Vietnam*;
- . Phan Thien Luan, *NCHU-Taiwan (R.O.C)*

**\*Secretariats:**

- . Nguyen Phuoc Hoang Khang, *VNUHCM-University of Science-Vietnam*;
- . Hua Thi Hoang Yen, *VNUHCM-University of Science-Vietnam*;
- . Nguyen Vuong Thuy Ngan, *VNUHCM-University of Science-Vietnam*;
- . Dinh Thi Lich, *Mien Tay Construction University*;

**10. Plenary and invited speakers:**

- . Prof. Takahito Ono, *Tohoku University-Japan*;
  - . Prof. Tran Tri Nang, *Minnesota University-USA*;
  - . Prof. Jan Schulz, *Jade University of Applied Sciences-Germany*;
  - . Prof. Kyeong-Sik Min, *Kookmin University-Korea*;
  - . Prof. Dao Viet Dzung, *Griffith University-Australia*;
  - . Prof. Ching Tak Shing Congo, *National Chung Hsing University-Taiwan (R.O.C)*;
  - . Prof. Kun-Yu Lai, *National Central University-Taiwan (R.O.C)*;
  - . Assoc. Prof. Nguyen Van Toan, *Tohoku University-Japan*;
  - . Mr. Nguyen Phuc Vinh, *GTM-Synopsys Vietnam*;
  - . Prof. Masaya Toda, *Tohoku University-Japan*;
  - . Dr. Pham Thanh Trung, *Namur University-Belgium*;
- (will be updated)

**11. Sessions of 5<sup>th</sup> ICEBA2024:** There are 08 sections for parallel sessions and 01 poster session:

**\*Oral Sessions:**

- Session 1. Engineering Physics and Electrical & Electronic Engineering;
- Session 2. Medical Physics and Nuclear Engineering;
- Session 3. Semiconductor Technologies, Materials, Devices, and Related;
- Session 4. MEMS, Biosensors, Biomedical Engineering and Application;
- Session 5. Microelectronics, Embedded Systems, and AI&IoT;
- Session 6. Computing Science, Simulation, and Modeling;
- Session 7. Civil and Geology Engineering;
- Session 8. Constructions, Machines, and Mechanical Engineering;

**\* Poster Session**

**12. Conference fee registration for authors** (for abstract book, coffee break, 3 meals, limousine bus for Vinh Long Province):

- Plenary & Invited speakers, Program committee, Scientific committee: *Free of charge*
- Professors, researchers, and lecturers: 150 USD (on-site 200USD) (3.000.000 VNĐ for Vietnamese)
- Students and belong: 75usd (on site 100USD) (1.500.000 VNĐ for Vietnamese)
- Bank account Transfer:
  - Bank Account (US dollar and VN dong): ICEBA
  - Name of Account holder: HUYNH THANH NHAN
  - Bank name: Joint Stock Commercial Bank for Investment and Development of Vietnam
  - Swift code: BIDVNVX



**13. Important Dates (2024):**

- Abstract submission: June 10;
- Acceptance notification: July 10;
- Full paper submission (via the website of Journal): September 10;
- Registration and payment: Before October 10;
- Session schedule: October 30;
- Conference day: November 11&12;

**14. Conference Contact:**

\*Faculty of Physics and Engineering Physics (Building A, University of Science)  
227 Nguyen Van Cu Street, District 5, Ho Chi Minh city, Vietnam.

\*Institute of Science and International Cooperation (Mien Tay Construction University)  
20B Pho Co Dieu Street, ward 3, Vinh Long city, Vinh Long province.

Email: iceba@hcmus.edu.vn

Website: <https://phys.hcmus.edu.vn/ICEBA2024/#/>

**ICEBA2024**