

1st Announcement

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

1. The scope of the Conference

The purpose of the 5th 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, Electronic Engineering 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.*

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3. Time: 03 days

- 1st day: Registration, check-in, Opening Ceremony & Plenary talks, poster session (at the University of Science, Ho Chi Minh City). Mekong Delta tour.
- 2nd day: 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, Ministry of Construction (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:

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 (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-TSC (Scopus, Q4);
- And 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 5th ICEBA2024:

*** 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;*
- . Nguyen Van Xuan, *Mien Tay Construction University-Vietnam;*
- . Huynh Van Tuan, *VNUHCM-University of Science-Vietnam;*
- . Le Vu Tuan Hung, *VNUHCM-University of Science-Vietnam;*
- . Kyeong-Sik Min, *Kookmin University & IKEEE-Korea;*
- . Ching Tak Shing Congo, *National Chung Hsing University-Taiwan (R.O.C);*
- . Jen-Inn Chyi, *National Central University-Taiwan (R.O.C);*
- . Kun-Yu Lai, *National Central University-Taiwan (R.O.C);*
- . Nguyen Hoang Nam, *VNU Ha Noi-University of Science-Vietnam;*
- *(will be updated)*

***Program Committee:**

- . Huynh Van Tuan, *VNUHCM-University of Science-Vietnam, Chair;*
- . Nguyen Van Toan, *Tohoku University-Japan, Co-chair;*
- . Tran Cong Bang, *Mien Tay Construction University-Vietnam, Co-chair;*
- . 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;*
- . Dao Viet Dzung, *Griffith University-Australia;*
- . Nguyen Chi Nhan, *VNUHCM-University of Science-Vietnam;*

- . Pham Thanh Trung, *Namur University-Belgium;*
- . Truong Thi Kim Tuoi, *Tohoku University-Japan*
- . Nguyen Quang Khoi, *VNUHCM-US Vietnam*
- . Nguyen Chi Linh, *VNUHCM-US Vietnam*

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***Publication Committee:**

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

*** Local Organizing Committee:**

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

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***Secretariats:**

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

10. Plenary talks and Invited speakers:

- Prof. Takahito Ono, *Tohoku University-Japan*
- Prof. Tran Tri Nang, *Minnesota University-USA;*
- 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)*
- *(will be updated)*

11. Sessions of 5th ICEBA2024: There are 06 sections for parallel sessions and 01 poster session:

***07 Oral Sessions:**

- Session 1. Applied Physics, Engineering Physics and Nuclear Engineering
- Session 2. Semiconductor Technologies, Materials, Devices, and Related
- Session 3. MEMS, Biosensors, Biomedical Engineering and Application
- Session 4. Microelectronics, Embedded Systems, and AI&IoT
- Session 5. Computing Science, Simulation, and Modeling
- Session 6. Civil and Geology Engineering

- Session 7. Constructions, Machines, and Mechanical Engineering

*** 1 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. The deadline:

- Abstract submission and registration: May 10, 2024
- Abstract result announcement: June 10, 2024
- Full paper submission (via the website of IEEJ): September 10, 2024
- Conference payment fee: Before October 10, 2024
- Session schedule announcement: October 10, 2024
- Conference day: November 10,11&12, 2024

14. Contact for ICEBA2024:

The Secretary

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

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