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

**and Applications (ICEBA2024)**

*November 10,11&12, 2024*

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

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**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,..*

*- Civil and Geology Engineering.*

*- Constructions, Machines, and Mechanical Engineering.*

**3. Time:** 03 days in November 2024

- 1st day: Registration, check-in, and welcome dinner.

- 2nd day: Opening Ceremony & Plenary talks, poster session (at the University of Science, Ho Chi Minh City). Mekong delta tour.

- 3rd day: Registration, parallel sessions, poster session, meeting of 6th ICEBA2025, Closing Ceremony, and conference Banquet (at Vinh Long province)

**4. Venue:** Ho Chi Minh City and Vinh Long Province, Vietnam.

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

### **6. Publications:** Selected and Reviewed full papers will be published in the Special Issue of 5th ICEBA2024 in IEEJ (Japan, ISI/Scopus) and others.

**7. Sessions:**

**\*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

*\** **Poster Session**

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

**9. The Secretary**

Contact: Office of Faculty of Physics and Engineering Physics, A Building, 227 Nguyen Van Cu Str., Dist. 5, Ho Chi Minh City, Vietnam.

Email: iceba@hcmus.edu.vn

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