

## Technical Program

The 4<sup>th</sup> International Workshop on Engineering Physics, IC-MEMS-Sensors  
and Their applications (4ICEBA2023)

*Co-host by, VNUHCM-University of Science, Ho Chi Minh city, Vietnam  
and Tohoku University, Sendai, Japan.*

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*December 8&9, 2023*

*University of Science, 227 Nguyen Van Cu Street, District 5, Ho Chi Minh City, Vietnam*

### \*1st day of Conference (December 8, Friday)

Time	Contents/Program	Note
08:00-08:45	Registration (Check list, nameplate, Abstract&Program,...)	-Lobby of conference room: Building I, University of Science, HCM city, Vietnam. -The secretary
<b>1.OPENING CEREMONY &amp;PLENARY SESSION</b> Conference Hall, Building I, 227 Nguyen Van Cu Str., District 5, HCMC		
09:00-09:10	<b>1. Introduce Guests (MC)</b>	<i>MC: Dr. Ho Thanh Huy (VNUHCM-US)</i>
09:10-09:25	<b>2. Welcome speeches:</b> - Welcome speech from the Vice president of VNUHCM-US: <i>Prof. Tran Minh Triet</i> ; - Speech from Co-General Chair of 4 <sup>th</sup> ICEBA2023: <i>Prof. Takahito Ono and Prof. Nguyen Van Hieu</i> ; - Speech from Program Chair of 4 <sup>th</sup> ICEBA2023: <i>Prof. Huynh Van Tuan</i> .	
09:25-09:35	<b>3. Offer the gifts for invited speakers</b> . Plenary talks. . Invited talks	Vice President of VNUHCM-US
09:40-09:50	<b>4. The MoA signing ceremony for the Co/join Organizing 5ICEBA2024</b>	TBC
09:50-10:00	<b>Coffee break</b>	Lobby
10:00-11:40	<b>5. Plenary and Invited Session:</b> 15 min for talk and 5 min for discussion  <i>Chair: Prof. Takahito Ono (Tohoku University, Japan)</i> <i>Co-Chair: Prof. Nguyen Van Hieu (VNUHCM, Vietnam)</i> Link google meet for online: .....	
	<b>. Plenary #1 (code: PL-01).</b> <b>Prof. Takahito Ono</b> <i>Tohoku University, Japan</i>	

	<b>. Plenary #2 (code: PL-02)(online)</b> <b>Prof. Dao Viet Dzung</b> <i>Griffith University, Australia</i>	
	<b>. Plenary #3 (code: PL-03)</b> <b>Prof. Kyeong-Sik Min</b> <i>Kookmin University, Seoul, Korea</i>	TBC
	<b>. Plenary #4 (code: PL-04)</b> <b>Prof. Congo Tak Shing Ching</b> <i>National Chung Hsing University, Taiwan</i>	TBC
	<b>. Plenary #5 (code: PL-05)</b> <i>TBC</i>	TBC

## **2. POSTER SESSION 11:40-12:30;**

**Lobby of Conference room ....., Building I, 227 Nguyen Van Cu Str., District 5, HCMC**

- Chair: Prof. Huynh Van Tuan (VNUHCM-US, Vietnam);
- Co-Chair: Asst. Prof. Vu The Dang (Osaka Metropolitan University, Japan);
- Co-Chair: Prof. Vu Thi Hanh Thu (VNUHCM-US, Vietnam);

<i>Code</i>	<i>1<sup>st</sup> Author/ speaker</i>	<i>Name of poster presentation</i>
<b>PO-01</b>	<i>TBC</i>	<i>TBC</i>
<b>PO-02</b>		
<b>PO-03</b>		
<b>PO-04</b>		
<b>PO-05</b>		
<b>PO-06</b>		
<b>PO-07</b>		
<b>PO-08</b>		
<b>PO-09</b>		
<b>PO-10</b>		
...		
...		

**Lunch time (12:30-13:30)**

**3. PARALLEL SESSION: 14:00-16:30**

**Invited talk:** 20 min (15 min for talk and 5 min for discussion);

**Oral presentation:** 15min (12 min for talk and 3 min for discussion)

**Session 1. Applied Physics, Engineering Physics, Nuclear Engineering**

Room: ..... Building I, 227 Nguyen Van Cu Str., District 5, HCMC

- Chair: Prof. Le Vu Tuan Hung (VNUHCM-US, Vietnam);

- Co-Chair: Prof. Kun Yu Lai (NCU-Taiwan);

- Technical Assistant: ....

<i>Schedule</i>	<i>Name of invited speakers</i>	<i>Title of talks</i>
14:00-14:20	<b>Invited talk S1-01</b> <i>Prof. Kun Yu Lai (NCU-Taiwan)</i>	TBC
14:20-14:40	<b>Invited talk S1-02</b> <i>Prof. Le Vu Tuan Hung (VNUHCM-US, Vietnam)</i>	TBC
14:40-15:00	<b>Invited talk S1-03</b> <i>Prof. Phan Bach Thang (VNUHCM-INOMAR, Vietnam)</i>	

**Coffee break (15:00-15:15)**

15:15-15:30	<b>Oral S1-01</b>	
15:30-15:45	<b>Oral S1-02</b>	
15:45-16:00	<b>Oral S1-03</b>	
16:00-16:15	<b>Oral S1-04</b>	
16:15-16:30	<b>Oral S1-05</b>	

**Session 2. MEMS, Biosensors and Application**

Room: ..., Building I, 227 Nguyen Van Cu Str., District 5, HCMC

- Chair: Prof. Masaya Toda (Tohoku Univ.-Japan);

- Co-Chair: Prof. Nguyen Van Toan (Tohoku Univ, Japan)

- Technical Assistant:

14:00-14:20	<b>Invited talk S2-01</b> <i>Prof. Masaya Toda (Tohoku Univ.-Japan)</i>	TBC
14:20-14:40	<b>Invited talk S2-02</b> <i>Prof. Nguyen Van Hieu (VNUHCM, Vietnam)</i>	TBC
14:40-15:00	<b>Invited talk S2-03</b> <i>Prof. Nguyen Van Toan (Tohoku Univ.-Japan)</i>	TBC

**Coffee break (15:00-15:15)**

15:15-15:30	<b>Oral S2-01</b>	
15:30-15:45	<b>Oral S2-02</b>	
15:45-16:00	<b>Oral S2-03</b>	
16:00-16:15	<b>Oral S2-04</b>	
16:15-16:30	<b>Oral S2-05</b>	

### **Session 3. Microelectronics, Embedded System and AI&IoT**

Room: ....., Building I, 227 Nguyen Van Cu Str., District 5, HCMC

- *Chair: Prof. Kyeong-Sik Min (KMU& IEEEE, Korea)*
- *Co-Chair: Dr. Nguyen Chi Nhan (VNUHCM-US, Vietnam)*
- *Technical Assistant:*

14:00-14:20	<b>Invited talk S3-01</b>	
14:20-14:40	<b>Invited talk S3-02</b>	
14:40-15:00	<b>Invited talk S3-03</b>	

**Coffee break (15:00-15:15)**

15:15-15:30	<b>Oral S3-01</b>	
15:30-15:45	<b>Oral S3-02</b>	
15:45-16:00	<b>Oral S3-03</b>	
16:00-16:15	<b>Oral S3-04</b>	
16:15-16:30	<b>Oral S3-05</b>	

### **Session 4. Computing Science, Simulation and Modeling**

Room: ..., Building I, 227 Nguyen Van Cu Str., District 5, HCMC

- *Chair: Prof. Dinh Sy Hien (VNUHCM-US, Vietnam)*
- *Co-chair: Prof. Dau Van (Griffith University, Australia)*
- *Technical Assistant:*

14:00-14:20	<b>Invited talk S4-01</b>	
14:20-14:40	<b>Invited talk S4-02</b>	
14:40-15:00	<b>Invited talk S4-03</b>	

**Coffee break (15:00-15:15)**

15:15-15:30	<b>Oral S4-01</b>	
15:30-15:45	<b>Oral S4-02</b>	
15:45-16:00	<b>Oral S4-03</b>	
16:00-16:15	<b>Oral S4-04</b>	
16:15-16:30	<b>Oral S4-05</b>	

## **Session 5. Biomedical Engineering and Medical devices**

Room: ....., Building I, 227 Nguyen Van Cu Str., District 5, HCMC

- *Chair: Prof. Ching Tak Shing Congo (NCHU, Taiwan)*
- *Co-Chair: Dr. Huynh Chan Khon (VNUHCM-IU, Vietnam)*
- *Technical Assistant:*

14:00-14:20	<b>Invited talk S5-01</b>	
14:20-14:40	<b>Invited talk S5-02</b>	
14:40-15:00	<b>Invited talk S5-03</b>	

### **Coffee break (15:00-15:15)**

15:15-15:30	<b>Oral S5-01</b>	
15:30-15:45	<b>Oral S5-02</b>	
15:45-16:00	<b>Oral S5-03</b>	
16:00-16:15	<b>Oral S5-04</b>	
16:15-16:30	<b>Oral S5-05</b>	

## **4. MEETING OF PROGRAM COMMITTEE FOR 5<sup>th</sup>ICEBA2024**

Time: 17:00-17:30

Room: ..., Building I, 227 Nguyen Van Cu Str., District 5, HCMC

- . *Representative of VNUHCM-University of Science*
- . *Representative of Tohoku University, Japan*
- . *Representative of IEEE Vietnam Chapter*
- . *Representative of IKEEE Korea*
- . *Representative of HSIA Vietnam*
- . *Program Committee of 4<sup>th</sup> ICEBA2023 and Others*

## **5. DINNER PARTY (18:00-21:00): Phuc An Khang Restaurant (German Beer)** (Departure at 17:45 by walk)

## **\*2nd day of Conference (December 9, Saturday)**

<i>Time</i>	<i>Title and Program</i>	<i>Contents and note</i>
08:00-08:15	Registration	Lobby of E.303 (Building E, 3 <sup>rd</sup> floor)
<b>1.TUTORIAL SESSION (for teaching assistants, students, engineers,...)</b>  Room: E.303, Building 3, 3 <sup>rd</sup> Floor, 227 Nguyen Van Cu Str., District 5, HCMC - <i>Chair: Prof. Nguyen Van Toan (Tohoku University)</i> - <i>Co-chair:</i> - <i>Technical Assistant:</i>		
08:00-09:00	<b>Tutorial #1.</b>	TBC
09:00-10:00	<b>Tutorial # 2.</b>	TBC
<b>2. CITY TOUR: Can Gio Mangrove Guided Forest Trip</b> (Optional) (Around 60km far from VNUHCM-University of Science, by car, 8hours)  <i>Visit Can Gio Mangrove forest, enjoy a trip to Monkey Island, spot an abundance of wildlife in the forest, driving on a cano boad and enjoy local foods.</i> . 09:00. Pick up at hotel .10:00-12:00. Transportation and Can Gio ferry (from downtown to Can Gio rual district) . 12:00-16:00. Lucch, sightseeing tours . 16:00-18:00. Return downtown of HCMC. . Around 18:30: Hotel		