

# 2022 IEEE Hiroshima Section Activity Report

## **PART A - SECTION SUMMARY**

### A.1 Executive Summary – (Please follow the format given below)

- Section Executive Committee Member List
  - Officers [2021-2022]:**
    - Chair:** Kazuhiro Uehara (Okayama University)  
uehara@okayama-u.ac.jp
    - Vice Chair:** Satoshi Taoka (Hiroshima University)  
taoka@infonets.hiroshima-u.ac.jp
    - Secretary:** Hiroaki Yamada (Yamaguchi University)  
hiro-ymd@yamaguchi-u.ac.jp
    - Treasurer:** Kokoro Kitamura (Shimane University)  
kitamura@ecs.shimane-u.ac.jp
  - Executive Committee Members [2021-2022]:**
    - Akira Furui (Hiroshima University)  
[Additional Post: Membership Development Committee Chair]  
akirafurui@hiroshima-u.ac.jp
    - Yusuke Fujita (Yamaguchi University)  
[Additional Post: Chapter Promotion Committee Chair]  
y-fujita@yamaguchi-u.ac.jp
    - Yukinobu Fukushima (Okayama University)  
[Additional Post: Educational Activities Chair]  
fukusima@okayama-u.ac.jp
    - Kiyotaka Komoku (Okayama Prefectural University)  
[Additional Post: Women in Engineering Committee Chair]  
takimoto@c.oka-pu.ac.jp
    - Masashi Nakayama (Hiroshima City University)  
[Additional Post: Industry Relation Committee Chair]  
masashi@hiroshima-cu.ac.jp
    - Naoto Sasaoka (Tottori University)  
[Additional Post: Student Activities Committee Chair]  
sasaoka@tottori-u.ac.jp
    - Toshiyuki Yoshida (Shimane University)  
[Additional Post: Student Activities Committee Chair]  
yosisi@ecs.shimane-u.ac.jp
    - Naoki Kagawa (Fukuyama University)  
[Additional Post: Fellow Committee Chair]  
kagawa@fukuyama-u.ac.jp
    - Kensuke Okubo (Okayama Prefectural University)  
[Additional Post: Award Committee Chair]  
okubo@c.oka-pu.ac.jp
- Section Highlights
  - Section Sponsored Technical and Educational Lectures (Lecture meeting 6, Technical symposium 1): 7
  - Section co-sponsored or supported Technical Events: 4
  - Total number of Student Branches in Hiroshima Section: 2
- Major Events (International, National)
  - The 24th IEEE Hiroshima Student Symposium (HISS) (Details are in Section B.4)
- Awards
  - The 2022 Hiroshima Section Contribution Award

## A.2 Financial Report

		(Japanese Yen)
Income	Balance carried forward	1,925,655
	Section Assessment	1,119,661
	Section Rebate	516,806
	Student Rebate	9,425
Income	3rd highest voting percentage	27,696
	Interest	10,005
	Support for HISS from Foundation	724,050
	<b>Total of Income in Section Account</b>	<b>4,333,298</b>
	Income of HISS (different account from section)	290,500
	<b>Sum of Total of Income in Section Account and Income of HISS</b>	<b>4,623,798</b>
Expense	Section Assessment	951,162
	Chapter Rebate for SMC28 (\$295.00-)	37,574
	Student Rebate for HSSB	9,425
	Expense for Administrative Meetings	76,860
	Expense for Technical Meetings	11,220
	Section Activities	60,780
	Postage & Supplies	5,320
	Stationery & Bank charge	34,094
	Reserve for next year	2,543,371
	Support for HISS	50,000
	Support for HISS from Foundation	721,050
	Exchange gain and loss	-167,558
	<b>Total of Expense in Section Account</b>	<b>4,333,298</b>
	Expense of HISS (different account from section)	290,500
	<b>Sum of Total of Expense in Section Account and Expense of HISS</b>	<b>4,623,798</b>
End-of-Year Balance		0

## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

- Number of Members@ Dec. 2022: 538 [+3 from Dec. 2021]
- Number of Members@ Dec. 2021: 535 [+19 from Dec. 2020]
- Number of Members@ Dec. 2020: 516 [+2 from Dec. 2019]

### B.2 Chapter Activities

#### **Total number of Chapters in the Hiroshima Section: 2**

- Fukuoka/Hiroshima/Shikoku (West Japan) Chapter, EMB18  
Activities of EMB West Japan Chapter; Please refer the Fukuoka Section.
- Hiroshima Section Chapter, [SMC Hiroshima Chapter], SMC28  
[Activities of SMC Hiroshima Section Chapter]

#### List of Chapter Officers of SMC

Chair: Tomohiro HAYASHIDA (Hiroshima University)

Vice Chair: Keiichi TAMURA (Hiroshima City University)

Secretary: Daisuke HIROTANI (Prefectural University of Hiroshima), Yosuke Kakiuchi (Hiroshima Institute of Technology)

Treasurer: Tatsuhiko SAKAI (Shimane University)

### Technical Activities (SMC)

	Meeting date	Title	Type	Number of days	Number of participants (*
1	17 Apr. 2022	IEEE SMC Hiroshima Chapter Special Lecture Prof. S. Sekizaki (Hiroshima University)	Technical	1	18 (18)
2	9 Jul. 2022	2021 IEEE SMC Hiroshima Chapter Young Researchers' Workshop	Technical	1	66 (16)
3	9 Jul. 2022	IEEE SMC Hiroshima Chapter Special Lecture Prof. S. Wakitani (Hiroshima University)	Technical	1	66 (16)
4	31 Aug. – 3 Sep. 2022	2022 Annual Conference on Electronics, Information and Systems Institute of Electrical Engineers of Japan (IEEJ)	Technical	4	737
5	18 Dec. 2022	IEEE SMC Hiroshima Chapter Award Commemorative Lecture Mr. Ryuya Furukawa (Hiroshima University)	Technical	1	15 (13)
6	18 Dec. 2022	IEEE SMC Hiroshima Chapter Special Lecture Prof. S. Kamada (Hiroshima City University)	Technical	1	15(13)

(\* Number of participants of IEEE members)

### Membership Communication and Advancement (SMC)

- Growth of chapter membership

Membership at last status report submitted	Current Membership	% Growth
56	56	+0%

Other detailed activities report of SMC Hiroshima chapter can be found at following website.  
<https://www.ieee-jp.org/section/hiroshima/chapter/SMC-28/english/>

## B.3 Professional and Continuing Education Activities

### (B.3.1) 2022 General Assembly of IEEE Hiroshima Section

Jan. 19, 2022 (Online), Attendance: IEEE Members: 19 (letters of attorney: 30)

### (B.3.2) Administrative Meetings

Administrative meetings were held 4 times.

1. The 1st Board of Directors on April 8, 2022 (Online)  
Attendance: Officers and Executive Committee Members 13
2. The 2nd Board of Directors on May 28, 2022 (Online)  
Attendance: Officers and Executive Committee Members 9
3. The 3rd Board of Directors on Sept. 3, 2022 (Online)  
Attendance: Officers and Executive Committee Members 10
4. The 4th Board of Directors on Nov. 26, 2022 (Hybrid)  
Attendance: Officers and Executive Committee Members: 13

<https://www.ieee-jp.org/section/hiroshima/e/activity-report/>

### (B.3.4) Lectures and Events

#### **(1) Section sponsored Technical and Educational Lectures: 7 (Lecture meeting 6, Technical symposium 1)**

- Lecture Meetings were held 6 times.

1. Special Lecture  
Title: Think about IEEE Metro Area Workshop 2020 in Hiroshima  
Speaker: Prof. Toshihiko Hamasaki (Hiroshima Institute of Technology)

Location: Online (Zoom)

Date: Jan. 19, 2022

Attendance: 18 (IEEE Member:18)

2. Technical Lecture

Title: Massive Connect IoT: massive Machine Type Communications With Time-Space Synchronization

Speaker: Prof. Suguru Kameda (Hiroshima University)

Location: Online (Zoom)

Date: Apr. 8, 2022

Attendance: 29 (IEEE Member:29)

3. Technical Lecture

Title: Realization on Your Mind -According to HISS Operation Committee-

Speaker: Prof. Masashi Hotta (Yamaguchi University)

Location: Online (Zoom)

Date: May 28, 2022

Attendance: 34 (IEEE Member:14)

4. Technical Lecture

Title: System Identification and Application With Factor Graph

Speaker: Dr. Lei Jiang (Tokyo Institute of Technology)

Title: Network Information Theory and Mobile Wireless Communications

Speaker: Dr. Tadashi Matsumoto (Tokyo Institute of Technology)

Location: Yamaguchi University

Date: Jun. 2, 2022

Attendance: 16 (IEEE Member: 5)

5. Technical Lecture

Title: Quantification of Clinical Judgement Based on Fuzzy Theory

Speaker: Prof. Daisuke Kushida (Tottori University)

Location: Online (Zoom)

Date: Sep. 3, 2022

Attendance: 11 (IEEE Member: 11)

6. Technical Lecture

Title: Exploring the Potential of LiDAR in Industry 4.0

Speaker: Prof. Chao Zhang (Shimane University)

Location: RCC Cultural Center and online (Zoom)

Date: Nov. 26, 2022

Attendance: 11 (IEEE Member:10)

■ Technical symposium (HISS2022) was held as follows:

The 24th IEEE Hiroshima Section Student Symposium (HISS) was held in November 19, 20, 2022 via online. HISS is an event, "for society by student" mainly planned and managed by the students.

The number of attendances for the 24th HISS is 185 (sum of two days).

The contents of this symposium are as follows;

- Keynote lecture

Title: Challenge of SDGs Future City “Maniwa”

Speaker: Reina Suzuki (Secretary, General Policy Division, Maniwa city)

- One presentation from industrial company
- 3 presentations from academic laboratories
- One get-together meeting
- Technical presentations (Number of Technical Presentations: 69)
- One experience course
- On this symposium, following prizes are awarded:

Selected by the Nomination Committee of HISS Research Award.

HISS Best Paper Award: 1

HISS Excellent Paper Award: 14

HISS English Presentation Award: 1

IEEE WIE Shikoku, Fukuoka, and Hiroshima Section Award: 1

Selected by the vote of attendances.

HISS Best Presentation Award: 1

Micron Award: 1

HISS Good Presentation Award: 4

HISS Good Presentation Award for Academic Laboratories: 1



## B.4 Students Activities

- Total number of Student Branches in the Section: 2
- Summary of Student Branch activities  
**Yamaguchi SB:**
  1. Election of board member  
Date: March 31, 2022  
Location: Online (Zoom)  
Number of participants: 8  
Description: New board members were elected in an annual election.
  2. PSIM simulator workshop for beginners  
Date: April 13, 2022  
Location: Online (Zoom)  
Speaker: Prof. Hiroaki Yamada (Department of Electrical and Electronic Engineering)  
Number of participants: 10  
Description: The PSIM simulator workshop was held. A speaker described how to use power electronics simulator PSIM.
  3. Presentation workshop  
Date: April 28, 2022  
Location: Online (Zoom)  
Speaker: Prof. Hiroaki Yamada (Department of Electrical and Electronic Engineering)  
Number of participants: 10  
Description: The presentation workshop was held. A speaker described how to make presentation slide and talk in front of an audience.
  4. LaTeX workshop for beginners  
Date: June 1, 2022  
Location: Online (Zoom)  
Speaker: Prof. Hiroaki Yamada (Department of Electrical and Electronic Engineering)  
Number of participants: 10  
Description: The LaTeX workshop was held for beginners. A speaker described how to make a document by LaTeX.

<http://ysb.eee.yamaguchi-u.ac.jp/activity/>

### **Hiroshima Section SB:**

1. Election of board member

- Date: Jan. 19, 2022  
 Location: Online (Google Meet)  
 Number of participants:7  
 Description: New board members were elected in an annual election.
- 2.1<sup>st</sup> board meeting  
 Date: Mar. 7, 2022  
 Location: Online (Google Meet)  
 Number of participants:5  
 Description: Confirmation of the schedule for the year.
- 3.2<sup>nd</sup> board meeting  
 Date: Aug. 26, 2022  
 Location: Online (Google Meet)  
 Number of participants:5  
 Description: Discussion on how to operate HP and the need for a rental server.
- 4.Meeting on website management changes  
 Date: Sept. 3, 2022  
 Location: Tottori University  
 Number of participants:2  
 Description: Rental server contract and website template production.
- 5.Extraordinary meeting  
 Date: Sept. 12, 2022  
 Location: Online (Google Meet)  
 Number of participants:5  
 Description: Selection of participants for SBLTW(Student Branch Leadership Training Workshop) 2022.
- 6.Student Branch Leadership Training Workshop 2022  
 Date: Nov. 19-20, 2022  
 Location: Naha, Okinawa  
 Number of participants:2  
 Description: Participation in SBLTW 2022.
- 7.24<sup>th</sup> HISS  
 Date: Nov. 19, 2022  
 Location: Online (Zoom)  
 Number of participants:2  
 Description: Participation in 24<sup>th</sup> HISS.
- 8.Nomination of next annual board member  
 Date: Dec. 19, 2022  
 Location: Online (Google Meet)  
 Number of participants:5  
 Description: Nominations were made by current board members for the next board members.

## **B.5 Affinity Group Activities**

- Young Professional (YP)  
 The IEEE Hiroshima, Shikoku, and Fukuoka Young Professionals has been established in 2022. The established anniversary ceremony was held on 12 November 2022.
- Women In Engineering (WIE)  
 The IEEE WIE Shikoku, Fukuoka, and Hiroshima Section Award was instituted for the technical symposium 23rd HISS.

## **B.6 Awards & Recognition Activities**

- Awards constituted by the Hiroshima Section
  - The 2022 Hiroshima Section Contribution Award: Prof. Isao Nakanishi (Tottori University)
  - The 24th HISS Distinguished Contribution Award: 1 student
  - The 24th HISS Contribution Award: 7 students
  - The 24th HISS Distinguished Activity Award: 5 students

- The 24th HISS Activity Award: 20 students

## **B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)**

- Website of the Hiroshima Section  
**Section website**
  - <https://www.ieee-jp.org/section/hiroshima/> (in Japanese)
  - <http://www.ieee-jp.org/section/hiroshima/e/> (in English)**The website of Hiroshima Section Student Branch**
  - <https://hiroshima-ssb.netlify.com/> (in Japanese)**The website of Yamaguchi University Student Branch**
  - <http://ysb.eee.yamaguchi-u.ac.jp/> (in Japanese)**The website of IEEE SMC chapter in Hiroshima Section**
  - <https://www.ieee-jp.org/section/hiroshima/chapter/SMC-28/> (in Japanese)
  - <https://www.ieee-jp.org/section/hiroshima/chapter/SMC-28/english/> (in English)**The website of 24th HISS**
  - <http://www.ieee-jp.org/section/hiroshima/e/>
- Other means of contacts with Section members including social media  
**Section Facebook page**
  - <https://www.facebook.com/ieee.hiroshima/> (in Japanese)

## **PART C - OTHERS**

### **C.1 Special Events**

#### **The 24th IEEE Hiroshima Section Student Symposium (HISS) (refer to Section B.3)**

HISS is the one of unique events in IEEE Hiroshima Section whose purpose is to support the growth of students with independence and a spirit of enterprise. HISS had two special characteristics; one is that students themselves carry out the planning and management of the symposium and the other is that all the technical papers in HISS are presented by students by the interactive sessions. The main theme of each HISS would be decided by the students. Based on the interest from students' point of view, the topics of the Keynote Speech and the Technical Lecture in HISS are selected. A major part of the income of the symposium was obtained by support from the Hiroshima Section, the Micron Foundation, some sections of domestic technical societies, and presenters' submission fee. The IEEE Hiroshima Section hopes to grow this HISS to surrounding sections and it to be one of unique events in Japan or R10 in near future.

### **C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)**

- In Japan, we have very well-organized national technical societies for electrical, electronic and information engineering, e.g., Institute of Electronics, Information and Communication Engineers (IEICE). They also have local branches as well as the IEEE Sections.
- Hold technical lectures and events in co-operation with other national technical societies, such as IEICE or IPSJ (The Information Processing Society of Japan) and so on, through their local branches around the Hiroshima Section, and Universities.

### **C3. Collaboration with other IEEE Sections**

- Joint activities with any other Section  
 Joint YP Hiroshima, Fukuoka, and Shikoku has been established in 2022.

### **C.5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)**

- Welcome message to the new members

We had sent welcome messages to the members who newly joined the Hiroshima Section, in order to announce the services for members, Section Web site, events in the Section (including HISS), etc.

## **PART D - GOALS AND PLANS**

### **D.1 Continuation of project/activity in progress and their implementation plans**

#### **(D.1.1) General Assembly**

Annual meeting plan to hold via online(zoom) on January 11, 2023.

#### **(D.1.2) Board of Directors**

Four committee meetings plan to hold.

#### **(D.1.3) The 24th IEEE Hiroshima Student Symposium (HISS)**

The 25th HISS plan to hold at Shimane University, Shimane, Japan on November, 2023.

#### **(D.1.4) Technical Lectures**

Planning at least 5 Sponsored Technical Lectures and at least 4 co-sponsored or supported Technical Lectures and/or Forums with other National Societies in Japan.

#### **(D.1.5) Encouragement of student members**

Strongly encourage the student members to present their research work at the international and the domestic conferences or symposium.

### **D.2 Goals and Future Plans**

- Our goal is to develop the number of active members and to be a useful organization for already existing members.
- We try to find the system for active communications between academic and company members.