

IEEE Nagoya Section Annual Report 2022

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List

(a) Officers:

Chair:

Dr. Jun Sato (Professor, Nagoya Institute of Technology)

Vice Chair:

Dr. Unoki Masashi (Professor, Japan Advanced Institute of Science and Technology)

Secretary:

Dr. Nobuo Kawaguchi (Professor, Nagoya University)

Treasurer:

Dr. Yoshinobu Murakami (Associate Professor, Toyohashi University of Technology)

Auditor:

Mr. Shuji Tomura (Toyota Central R&D LABS)

(b) Standing Committee Chairs:

Member Advancement and Nomination Committee:

Dr. Nobuhiro Ito (Professor, Aichi Institute of Technology)

Membership Development Committee:

Dr. Daisuke Iioka (Associate Professor, Chubu University)

Technical Activities Committee:

Mr. Tomoaki Nonome (Toyota Industries Corporation)

Student Activities Committee:

Dr. Daisuke Yamamoto (Associate Professor, Nagoya Institute of Technology)

Award Committee:

Dr. Norimichi Ukita (Professor, Toyota Technological Institute)

Chapter Operation Committee:

Dr. Junichi Asama (Associate professor, Shizuoka University)

(c) Past Chairs:

2021-2022 Chair:

Dr. Masaaki Katayama (Professor, Nagoya University)

2019-2020 Chair:

Dr. Naohiro Hozumi (Professor, Toyohashi University of Technology)

2017-2018 Chair:

Dr. Yutaka Ishibashi (Professor, Nagoya Institute of Technology)

2015-2016 Chair:

Dr. Takeshi Furuhashi (Professor, Nagoya University)

2009-2010 Chair, Milestone:

Dr. Masayuki Nagao (Professor, Toyohashi University of Technology)

- Section Highlights

- (1) The presentation ceremony of QR (Quick Response) Code (IEEE Milestone Award) was held in September 2022
- (2) As an Educational Activity, the IEEE Milestone Lecture on "QR Code" was distributed nationwide and archived.
- (3) Nagoya Section supported the IEEE Milestone application of "Toyota Prius, the world's first mass-produced hybrid vehicle" from Toyota Motor Corporation.
- (4) Memorable medals to celebrate the promotion to senior members were given to 8 members in August 2022.
- (5) IEEE Nagoya Section Student Research Presentation Awards in IEEE international conferences were given to 9 students. The Award ceremony was held in March 2022.
- (6) IEEE Nagoya Section Student Awards were given to 6 excellent students who presented their research in 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Tokai Area.
- (7) IEEE Nagoya Section Student Award was given to an excellent student who presented research in 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Hokuriku Area.
- (8) A number of technical activities were organized and co-organized by Nagoya Section, and a total of 29 events including 6 sponsored events were held successfully in 2022.

- Major Events (International, National)

- (1) The presentation ceremony of QR (Quick Response) Code (IEEE Milestone Award) was held in September 2022
- (2) 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Tokai Area was held in August 2022, and 6 excellent student presenters were selected for IEEE Nagoya Section Student Awards.
- (3) 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Hokuriku Area was held in September 2022, and an excellent student presenter was selected for IEEE Nagoya Section Student Award.
- (4) The ceremony of IEEE Nagoya Section Student Research Presentation Awards was held in March 2022.
- (5) A ceremony to grant memorable medals to celebrate the promotion to senior members was held in August 2022.

- Major Chapter Activities

- AP-S Nagoya Chapter organized 4 technical meetings.
- MAG-S Nagoya Chapter organized 2 technical meetings.
- MTT-S Nagoya Chapter organized 3 technical meetings.
- ITS-S Nagoya Chapter organized 3 technical meetings.

- Major Student and Affinity Group Activities

- Life Member Affiliate Group (LMAG) organized 2 technical meetings.
- Student Branch in Nagoya University organized a General Meeting. The Nagoya University Student Branch also joined 2022 IEEE Student Branch Leadership Training Workshop.
- Student Branch in Fukui University organized a technical meeting.
- Student Branch in Shizuoka University organized 2 technical meetings.

- Awards
 - o No member was awarded Fellow Grade.
 - o 5 members were awarded Senior Member Grade.

A.2 Financial Report – (Please follow the format given below)

- Summary (as per submitted on NetSuite)
 - o Total Receipts during the year 2022 were JY4,369,526 including the assessment and rebate of JY3,835,000 from IEEE HQ. The total disbursements amount to JY3,694,799

- Any other financial activities
 - o None

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.

November 2020: 1,268

November 2021: 1,301

November 2022: 1,328

The number of members of the Nagoya Section as of Oct. 2022 is as follows: (The numbers in parentheses are for Oct. 2021. All figures are from SAMIEEE.)

Fellow:	30	(28)
Senior Member:	113	(109)
Member:	965	(966)
Associate Member:	19	(22)
Student Member:	201	(176)

Total	1,328	(1301)

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
 - o Several student support activities such as the student research presentation awards in IEEE international conferences and the student awards for research work in local universities and Joint Congresses presentation have been penetrated to the society and positively attracted students for joining the IEEE.
 - o For encouraging Nagoya Section members to apply toward Fellow grade and Senior Member grade, an example of written application form as well as a letter of encouragement were posted on the Nagoya Section's Home Page, and sent to Nagoya Section members by using a Japan Council mailing list service.
 - o Recruiting activities for IEEE membership were held at the sponsored and co-sponsored events.

B.2 Chapter Activities

- Total number of Chapters in the Section

Four (4), AP-S, MAG-S, MTT-S, and ITS-S
- Number of Chapters formed in the current year

None
- Number of active Chapters (Chapters who have reported required number of meetings during the year)

Four (4), AP-S, MAG-S, MTT-S, and ITS-S
- Summary of Chapter activities (Chapter wise with attachment table/information)
 - AP-S Nagoya Chapter

(1) Technical Meetings:

February 17, 2022
IEEE AP-S Nagoya Chapter Special Talk
Jingu Kaikan

April 23,2022
Midland Student Express 2022 Spring
Online

October 20,2022
IEEE AP-S Nagoya Chapter Special Talk
Gifu City Culture Center

December 23,2022
Midland Student Express 2022 Autumn
Toyama-kenmin-kaikan

(2) Cooperation:

April 23, 2022
IEEE MTT-S Nagoya Chapter Special Talk
Online

(3) IEEE Distinguished Lecturer Lecture Meetings:

None

■ MAG-S Nagoya Chapter

(1) Technical Meetings:

February 2, 2022
IEEE Magnetics Society Nagoya Chapter, Young Researcher Meeting
Online / Gifu University, Satellite Campus

May 4, 2022
Joint Workshop of IEEE Magnetics Society Nagoya Chapter &
IEICE Technical Committee on Magnetic Recording, IEEJ Technical Committees on Magnetics
and Electronic Materials
Online / Nagoya University, IB081

(2) Cooperation:

May 16-19, 2022
Magnetics and Optics Research International Symposium 2022
Online / Kunibiki Messe

July 20, 2022
The 237th Topical Symposium of the Magnetics Society of Japan
Online

(3) IEEE Distinguished Lecturer Lecture Meetings:

None

■ MTT-S Nagoya Chapter

(1) Technical Lectures:

April 23,2022
Midland Student Express 2022 Spring
Online

April 23,2022
IEEE MTT-S Nagoya Chapter Technical Lecture Meeting
Online

December 3,2022
Midland Student Express 2022 Autumn
Toyama-kenmin-kaikan

(2) Cooperation:

January 14, 2022
15th JEMEA Workshop
Online

January 27, 2022
The Technical Committee on IEICE Wireless Power Transfer
Online

May 26, 2022
14th JEMEA Lecture
Online

October 12-14, 2022
16th JEMEA Symposium
Online

November 29-December 2, 2022
2022 Asia-Pacific Microwave Conference
Pacifico Yokohama

(3) IEEE Distinguished Lecturer Lecture Meetings:

None

■ ITS-S Nagoya Chapter

(1) Technical Lectures:

March 30,2022
GREMO & NU-CAR Symposium on Next-generation Automobiles/IEEE ITSS Nagoya Chapter
Symposium on Next-generation Communication Technology and Mobilities
Online

August 1,2022
IEEE ITSS Nagoya Chapter 2022 2nd Annual Conference
Online

December 6,2022
IEEE ITSS Nagoya Chapter 2022 3rd Annual Conference
Online

(2) Cooperation:

None

(3) IEEE Distinguished Lecturer Lecture Meetings:

None

B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information

Sponsorship	Event Category	Dates	Event Title
cooperation	Technical	Jan. 14	The 8th Energy-system symposium
cooperation	Technical	Jan. 17	IPSJ Tokai Branch Lecture Meeting
cooperation	Technical	Jan. 26	The Institute of Electronics, Information and Communication Engineers, Tokai Branch 2nd General Lecture
cooperation	Technical	Feb. 17	The 51th Workshop of Tokai Chapter of Japan Society for Fuzzy Theory and Intelligent Informatics (The 51th Tokai Fuzzy Kenkyukai)
cooperation	Technical	Feb. 24	Special Lecture of IEEE Tokai Section
cooperation	Technical	May. 19	Special Lecture of IPSJ Tokai Section
cooperation	Technical	Jul. 13	Special Lecture of IEICE Tokai Section
cooperation	Technical	Aug. 18-19	The 52th Workshop of Tokai Chapter of Japan Society for Fuzzy Theory and Intelligent Informatics (The 52th Tokai Fuzzy Kenkyukai)
sponsored	Technical	Aug. 29-30	2022 Tokai-Section Joint Conference on Electrical, Electronics, Information, and Related Engineering
sponsored	Technical	Aug. 29	IEEE Nagoya section WIE organized session
cooperation	Technical	Aug. 31	Young Researcher Seminar of IEEE Tokai Section
sponsored	Technical	Sep. 3	Joint Conference of Hokuriku Chapters of Electrical and Information Societies 2022
sponsored	Technical	Sep. 26	Commemorative lecture meeting on IEEE Milestone QR(Quick Response) Code,1994
cooperation	Technical	Sep. 28-29	THE 9TH INTERNATIONAL CONFERENCE ON ADVANCED INFORMATICS: CONCEPTS, THEORY AND APPLICATIONS(ICAICTA2022)
cooperation	Technical	Oct. 15	The 1st Public Lecture: Toward Realization of Carbon Neutrality by 2050
cooperation	Technical	Oct. 19	The 1st Energy Systems Symposium: Toward the Realization of a Decarbonized and Recycling-Oriented Society through Green Innovation
cooperation	Technical	Nov. 8	4th IPSJ Tokai Branch Lecture Meeting
cooperation	Technical	Nov. 24	5th IPSJ Tokai Branch Lecture Meeting
sponsored	Technical	Nov. 25	IEEE Student Branch Research Presentation Encouragement Workshop
sponsored	Technical	Dec. 10	Nagoya Section Academic Lecture

B.4 Students Activities

- Total number of Student Branches in the Section
 - Three (3): Nagoya University, Shizuoka University and Fukui University
- Number of Student Branches formed in the current year
 - None
- Section level student activities (student congress, paper and other contests, awards etc)
 - 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Tokai Areas was held in August 2022, and IEEE Nagoya Section Student Awards were awarded to 6 excellent student presenters.
 - 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Hokuriku Areas was held in September 2022, and IEEE Nagoya Section Student Awards were awarded to 2 excellent student presenters.
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
 - Three (3): Nagoya University, Shizuoka University, Fukui University
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
 - Nagoya University SB
 - General Meeting (Dec. ,2022) - workshop, research exchange
 - 2022 IEEE Student Branch Leadership Training Workshop (Jun. 10, 2022)
 - 2022 IEEE Student Branch Leadership Training Workshop (Nov. 18-19, 2022)
 - 2022 IEEE Student Branch Research Presentation Encouragement Workshop (Nov. 25, 2022)
 - Shizuoka University SB
 - 2022 IEEE Student Branch Leadership Training Workshop (Jun. 10, 2022)
 - 2022 IEEE Student Branch Research Presentation Encouragement Workshop (Nov. 25, 2022)
 - Tokai District University Joint Research Presentation (Nov., 2022)
 - Fukui University SB
 - Special Lecture from IEEE members (Jul. 7, 2022)

B.5 Affinity Group Activities

- Young Professional (YP)
 - Organizing 1st Executive committee meeting 2022 (Mar. 26, 2022)
 - Organizing 2nd Executive committee meeting 2022 (Aug. 20, 2022)
 - Organizing 3rd Executive committee meeting 2022 (Dec. 10, 2022)
- Life Member (LM)
 - Technical meeting (Jul. 16, 2022)
 - Technical meeting (Nov. 28, 2022)
 - Site visit for National Institute for Fusion Science (Dec. 16, 2022)

B.6 Awards & Recognition Activities

- Award constituted by the Section
 - IEEE Nagoya Section Student Awards of 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Tokai Area were given to 6 excellent student presenters at the Tokai Area Conference.
 - IEEE Nagoya Section Student Award of 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Tokai Area was given to an excellent student presenter at the Hokuriku Area Conference.
 - Student Research Presentation Awards in IEEE international conferences were given to 9 students.
 - IEEE Nagoya Section Excellent Student Awards were given at six universities: Nagoya University, Nagoya Institute of Technology, Mie University, Meijo University, Toyohashi University of Technology and Chukyo University.
 - Memorable medals to celebrate the promotion to senior members were given to 8 members in October 2022.
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
 - None

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

- Newsletter (name and number of issues in the year)
 - None.
- Home Page of the Section (give the URL and how often it is updated)
 - <https://ieec-jp.org/section/nagoya/>
 - Updating about every event.
- Other means of contacts with Section members including social media
 - Mailing lists are available for section officers, executive committees, LMAG and YP core members.
 - Mailing lists service by Japan Council is available for announcements of section annual meeting, encouragement of application to Senior Member and Fellow grade, call for award applications and technical activities.

B.8 Industry Relations

- Membership growth and retention
 - IEEE Nagoya Section sends request e-mails for new membership and retention of IEEE membership to all the members and non-renewal members, respectively, in February and April. However, when student members enter industry, unfortunately some of the members leave from the IEEE.
 - Membership recruitment brochures are distributed to attendees when technical meetings are organized/cooperated by IEEE Nagoya Section.
- Activities for/with industrial members
 - Chapter activities in Section B.2 and technical meetings in Section B.3 are held for industrial members as well as for academic members.

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
 - None.
- SIGHT Activities
 - None.

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)”
 - None.

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
 - None
- Funding secured from the IEEE and external sources including sponsorships
 - None

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

- Nature of relationship and details of any formal agreement signed
 - Two annual activities are sponsored by IEEE Nagoya Section together with national societies. Around 21 activities organized by national societies are financially/technically cooperated by IEEE Nagoya Section.
- Details of joint activities
 - **Sponsored Activities**

We have the following two joint activities every year:

 - (a) Joint Conference of Institutes related to Electrical, Electronics, and Information Engineering in Tokai Area
 - Sponsored together with IEEJ Tokai Branch, IEICE Tokai, IPSJ Tokai Branch, ITE Tokai, IEIJ Tokai, IEIEJ Chubu, and ASJ (Acoustical Society of Japan) Tokai Chapter
 - IEEE Nagoya Section Student Awards are given to several students every year in this conference.
 - (b) Joint Conference of Institutes related to Electrical, Electronics, and Information Engineering in Hokuriku Area
 - Sponsored together with IEEJ Hokuriku Branch, IEICE Hokuriku, IPSJ Hokuriku Branch, ITE Hokuriku, IEIJ Hokuriku, SICE Hokuriku, IEIEJ Chubu, ASJ (Acoustical Society of Japan) Hokuriku Chapter, and JSMBE (Japanese Society for Medical and Biological Engineering) Hokuriku
 - **Cooperation Activities**

Several activities such as lectures, symposiums, and meetings organized by local national societies, e.g., IEICE Tokai, IPSJ Tokai Branch, SOFT (Japan Society for Fuzzy Theory and Intelligent Informatics) Tokai Branch, are held in cooperation with IEEE Nagoya Section.
- Benefit to IEEE members (for example discounts, access to technical information etc.)
 - Discounts of registration fees
 - Access to technical information
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)
 - Help in membership development by distributing the IEEE membership recruitment brochures to attendees
 - Cost saving by cooperation
 - Improvement of IEEE's familiarity

C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections
 - IEEE Nagoya Section collaborates with the other IEEE Sections in Japan through IEEE Japan Council (JC).
- Joint activities with any other Section
 - Nagoya Section Young Professionals (YP) Affinity Group is co-organizing Career Building Essay Contest with IEEE Japan Council (JC), Tokyo Section YP, Kansai Section YP and WIE Affinity Groups.
 - Nagoya Section Women In Engineering (WIE) organized a online meeting with other WIE.
 - Nagoya Section Student Branch (SB) is collaborating with Student Branch of other sections joining SBLTW.

C.4 Support extended to Sub-sections & Society Chapters within the Section

- Support extended for organizing technical, educational and professional activities
 - Several activities organized by society chapters within IEEE Nagoya Section are financially supported by IEEE Nagoya Section.
- Joint activities for membership development
 - When the above activities are held, announcement of cooperation with IEEE Nagoya Section is made by the society chapters.
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section
 - None.

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

- None.

C.6 Problems anticipated and suggestions for solutions, if any

- Fortunately, IEEE has been holding a good status of membership retention. However, many national societies are facing the decrease of members these years.

PART D - GOALS AND PLANS

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

- Enhancing the activities of Student Branches.
- Increasing the membership.
- Nominations of members for Senior Member and Fellow of the Institute.
- Organizing technical lectures and symposium, workshops on topics of interest, in some cases in collaborations with other institutes.
- Making close collaborations with other professional organizations related to Electrical, Electronics, and Information Engineering. Nagoya Section will actively participate in the 2022 Joint Conferences of Institutes related to Electrical, Electronics, and Information Engineering in Tokai/Hokuriku Areas to be held in autumn in 2022.
- Providing better services to the members.
- Supporting activities of young members.

D.2 Goals and Future Plans

- Establishing joint chapters
- Establishing new chapters
- Establishing new student branches
- Application for IEEE Milestone

D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.

- None.

D.4 Business Plan for Sustainable Growth and Financial Stability.

- None.