

IEEE Seoul Section Report 2022

PART A - SECTION SUMMARY

A.1 Executive Summary

- Section Executive Committee Member List

Officer/Committee chair	Name	Affiliation
Chair	Cheon Won Choi	Dankook University
Vice-chair	JeongYon Shim	Kangnam University
Secretary	Seokhyun Yoon	Dankook University
Treasurer	Jeong Woo Lee	Chung-Ang Univ
Awards and Recognition Committee Chair	Byung Gook Park	Seoul National University
Chapter Coordination Committee Chair	Jae-Hyun Kim	Ajou University
Educational Activities Committee Chair	Myeonggon Kang	Korea National Univ. of Transportation
Fellow Candidate Discovery Committee Chair	Inkyu Lee	Korea University
Higher Member Promotion Committee Chair	Jong Chang Yi	Hongik University
History Committee Chair	Dae Gwon Jeong	Korea Aerospace University
Information Management Committee Chair	Sang-Hun Song	Chung-Ang Univ
Membership Development Committee Chair	Jinyoung Hwang	Korea Aerospace University
Nomination Committee Chair	Chaewoo Lee	Ajou University
Professional Activities Committee Chair	Sangmi Lee	IITP
Strategic Planning Committee Chair	Hyun-Chang Park	Dongguk University
Student Activities Committee Chair	Seongjae Cho	Gachun University
Student Branch Coordination Committee Chair	Hongil Yoon	Yonsei University
Technical Activities Committee Chair	Hoon Kim	Incheon National University
Volunteer Recognition Committee Chair	Oh-Soon Shin	Soongsil University
Mentor	Kuk Jin Chun	Seoul National University
Senior Mentor	Kyun Hyon Tchah	Korea University
Life Members Affinity Group Chair	Hyuck-Jae Lee	KAIST
Women in Engineering Affinity Group Chair	JeongYon Shim	Kangnam University
Young Professionals Affinity Group Chair	Myeonggon Kang	Korea National University of Transportation

Compared with the year 2021, the activity of IEEE Seoul Section this year become active even with the continuing threat of COVID-19. IEEE Seoul Section is thrilled to report that we have hosted IEEE Region 10 SYWL 2022 successfully after the success of IEEE TENSYPMP 2021 held in Jeju, Korea. The following is a brief summary of 2022 activities of IEEE Seoul Section.

- **IEEE R10 SYWL 2022 held in Jeju Shinhwa World, Aug.11-13, 2022**

The IEEE Region 10 Student, Young Professionals, Women-in-Engineering and Life Member Congress 2022 (R10 SYWL Congress 2022) was held at Jeju Island, Korea, from 11th to 14th August 2022. The 2022 R10 SYWL Congress include tracks for students, young professionals, WIE and Life members besides keynote speakers at the joint opening and closing sessions. This year, we held it offline at the beautiful island of Korea, Jeju, with a theme, Sound and Young influences for World Leading IEEE. More than 150 participants from 15 countries were attended the congress.

- **Student Paper Contest held offline at Dongguk University, Dec. 17, 2022**

The student activity in Seoul Section can be highlighted by the Student Paper Contest 2022 which was held offline at Dongguk University in Dec. 17, 2021. 52 papers were presented and evaluated for prizes.

- **Annual General Meetings**

Every year Seoul Section holds an annual general meeting. Last year Seoul Section held an annual general meeting in December. This year Seoul Section will hold an annual general meeting in December.

No	When and where	Agenda
1	17:00-18:00, Dec. 17, 2022 Dongguk Univ. (# attendees: 13)	<ul style="list-style-type: none"> • Report on 2022 IEEE Seoul Section Student Paper Contest • Report on activities of Seoul Section in 2022 • Financial audit report in 2022 • Election of 2023 IEEE Seoul Section Chair

- **Executive Committee Meetings**

Seoul Section have been holding 3~4 executive meetings a year. This year, we have conducted 3 executive meetings. The following table summarizes the meeting agenda.

No	When and where	Agenda
1	17:30-18:30, Wed., Mar 30, 2022, Online (# attendees: 20)	<ul style="list-style-type: none"> • Announcement of 2022 Plan • Reports of the planned activities from each committee • Status report from SYWL 2022 program Committee
2	17:00-18:00, Fri., May 27, 2022, Offline, Gangnam, Seoul (# attendees: 17)	<ul style="list-style-type: none"> • Reports of the planned activities from each committee • Approval of resolution for Professor Souguil Ann • Approval of resolution for Professor Byung-Gook Park • Status report from SYWL 2022 program Committee
3	17:00-18:00, Thu., November 10, 2022, Offline (Dongguk Univ.) (# attendees: 16)	<ul style="list-style-type: none"> • Reports of the planned activities from each committee • IEEE Milestone report (Hyuk-Jae Lee) • Status report for 2022 Student paper contest

In addition to these major activities, IEEE Seoul Section

- R10's membership development strategies have been paid full scale attention ranging from student branch activities to member recognitions. The total number of IEEE members in Seoul Section has increased by more than 150 and SM by 20. We have also added 2 new fellows in 2022.
- To facilitate professional networking, IEEE Seoul Section assisted technical chapters and invested efforts to keep them active. Currently there are 40 technical chapters, including 3 joint chapters, and three affiliation groups, YP, WIE and LM, who are going through team building.
- To provide more volunteer leadership opportunities, most of the organizing committees of the Student Paper Contest 2022 were appointed from the IEEE Seoul Section's officers, members, and student members. The chapter chairs and student branch officers are encouraged to launch and host local activities and meetings. Those officers were recognized and appreciated in the annual meeting.
- The General Assembly of IEEE Seoul Section was held offline at Dongguk University on 17 December, 2022 after IEEE Student Paper Contest 2022. In the General Assembly, Professor Gilsoo Jang of Korea University was elected to serve as the chair of IEEE Seoul Section for 2023.

A.2 Financial Report

The IEEE Seoul Section's financial condition has continued to maintain a good balance in the year of 2022, even with the additional expenditure to support R10 SYWL 2022.

1. Income

Item	Amount (Won)
IEEE rebate	21,356,742
SYWL 2022 income	2,566,068
Interests	50,794
Total	23,973,604

2. Expenditure

Item	Amount (Won)
honorarium	3,684,092
Meeting support	18,104,000
SYWL attendee support	6,000,000
LMAG support	1,363,000
Council support	300,000
Office rental	1,321,000
Events support	6,333,000

Tax and fees	66,900
Total	37,171,992

3. Total Net Worth

Item	Amount (Won)	
Balance beginning of the year	98,652,637	A
Total Income of the year 2018.05	23,973,604	B
Total Expenditure of the year	37,171,992	C
Total Net Increases	-13,198,388	B-C
Balance end of the year	85,454,249	A+B-C

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

Compared to 2021, the section gained about 100 members. Member was increased by more than 150 and Sr. member by 20.

- Total number of members

Grade Year	Total	Mem	Sr.M	FM	HM	LF	LM	LS	AM	GSM	St.M	Other
2022	4056	1803	387	43	1	18	23	30	80	1305	299	67
2021	3950	1649	367	44	1	17	17	26	68	1385	321	55
2020	3491	1684	360	43	1	15	16	19	80	317	288	68

- Seoul Section will maintain the membership development program in 4 directions.
 - To develop a recruit program for undergraduate and graduate students.
 - To develop a membership recruit program for industry.
 - To develop a membership elevation program for members and senior members.
 - To recognize and appreciate loyal members, new members, and volunteer services.
- 2 new fellows were announced.
 - Chang-su Kim (Professor, Korea University)
for contributions to video communications and visual processing
 - Jong-moon Chung (Professor, Yonsei University)
for contributions in consumer wireless communications and networking systems technology
- The undergraduate program was focused on seeding prospective student group circles interested in IEEE in universities in the section.

B.2 Chapter Activities

- IEEE Seoul Section was associated with 40 Technical Societies as shown below:

Technical Chapters	Code	Chair, Affiliation
IEEE Aerospace and Electronic Systems	AES010	Young Kil Kwag, Korea Aerospace Univ.
IEEE Antennas and Propagation	AP003	Jae Hoon Choi, Hanyang Univ.
IEEE Broadcast Technology	BT002	Byungwoo Jeon, Sungkyoonkwan Univ.
IEEE Circuits and Systems	CAS004	Myung Hoon Sunwoo, Ajou Univ.
IEEE Communications	COM019	Sunghyun Choi, Seoul National Univ.
IEEE Computational Intelligence	CIS011	Byoung-Tak Zhang, Seoul National Univ.
IEEE Computer	C016	Chang Sung Jeong, Korea Univ.
IEEE Consumer Electronics	CE008	Seungwon Jung, Dongguk Univ.
IEEE Control Systems	CS023	Poo Gyeon Park, Postech Univ.
IEEE Council on Design Automation	CEDA044	Seungjoo Yoo, Seoul National Univ.
IEEE Dielectrics and Electrical Insulation	DEI032	inactive
IEEE Education	E025	Eui-Sung Kang, Sunchon Univ.
IEEE Electromagnetic Compatibility	EMC027	inactive
IEEE Electron Devices	ED015	Yong Taek Hong, Seoul National Univ.
IEEE Electronics Packaging	EP021	Ki Jin Han, Dongguk Univ.
IEEE Engineering in Medicine and Biology	EMB018	inactive
IEEE Geoscience and Remote Sensing	GRS029	Hoonyol Lee, Kangwon Univ.
IEEE Industrial Electronics	IE013	Kanghyun Jo, Ulsan Univ..
IEEE Industry Applications	IA034	Jinwoo Ahn, Kyeongsung Univ.
IEEE Information Theory	IT012	Kyoungchul Yang, POSTECH
IEEE Instrumentation and Measurement	IM009	inactive
IEEE Intelligent Transportation Systems	ITSS038	Kyongsu Yi, Seoul National Univ.
IEEE Magnetics	MAG033	Jongil Hong, Yonsei Univ.
IEEE Microwave Theory and Techniques	MTT017	Jae-Sung Rieh, Korea Univ.
IEEE Nuclear and Plasma Sciences	NPS005	Kyung Min Kim, KIRAMS
IEEE Oceanic Engineering	OE022	Sunchul Yu, POSTECH
IEEE Photonics	PHO036	Ju Han Lee, Univ. of Seoul
IEEE Power & Energy	PE031	Chul-Hwan Kim, Sungkyunkwan Univ.
IEEE Power Electronics	PEL035	Jaeho Choi, Chunbuk National Univ.
IEEE Professional Communication	PC026	inactive
IEEE Reliability	RL007	inactive
IEEE Robotics and Automation	RA024	Songwhai Oh, Seoul National Univ.
IEEE SIGHT	SIGHT	inactive
IEEE Signal Processing	SP001	Joon Won Choi, Hanyang University.
IEEE Social Implications of Technology	SIT030	inactive
IEEE Solid-State Circuits	SSC037	Yong Moon, Soongsil Univ.
IEEE Systems, Man, and Cybernetics	SMC028	Seong Whan Lee, Korea Univ.
IEEE Tech. and Eng. Management	TEM014	inactive
IEEE Ultrason., Ferroele., and Freq. Control	UFFC020	inactive
IEEE Vehicular Technology	VT006	Seunghoon Hwang, Dongguk Univ.

B.3 Professional and Continuing Education Activities

N/A

B.4 Students Activities

● Student Branches

IEEE Seoul Section has 15 student branches in 2022. Each student branch consists of undergraduate and graduate students ranging from 1 to 214. Each student branch was operated independently under the supervision of the student branch counselor of the section. The following are student branches of Seoul Section:

Organizational Unit Name (Number of Members)	Position	First Name	Last Name	Email Address
Ajou Univ. (31)	Counselor	Ikmo	Park	ipark@ajou.ac.kr
Catholic Univ. of Korea (1)	Chair	Sang-Hyun	Cho	cshgreat@catholic.ac.kr
	Counselor	Hang-Bong	Kang	hbkang@catholic.ac.kr
Chonbuk Natl Univ. (20)	Counselor	Yongsug	Suh	ysuh@jbnu.ac.kr
Chung-Ang University (21)	Counselor	Jong-Soo	Choi	jschoi@cau.ac.kr
Dankook University (2)	Chair	Jin	Park	pjk9466@nate.com
	Counselor	CheonWon	Choi	cchoi@dku.edu
Ewha Woman's Univ. (15)	Counselor	Meejeong	Lee	lmj@ewha.ac.kr
Hongik University (27)	Chair	Jonghyuk	Lee	aaiiwitf@gmail.com
	Counselor	Albert	No	albertno@hongik.ac.kr
Korea University (113)	Counselor	Chang-Sung	Jeong	csjeong@korea.ac.kr
Kyungsung University (3)	Chair	Grace	Lukman	grace.firsta@gmail.com
Seoul Natl University (214)	Counselor	Jong	Park	parkjk@snu.ac.kr
Seoul Natl Univ of Tech(25)	Chair	Adhistira	Naradhipa	adhistira.madhyasta@
	Counselor	Sewan	Choi	schoi@seoultech.ac.kr
Sogang University (43)	Chair	Sungho	Kim	samkim@sogang.ac.kr
	Counselor	Jin Ho	Chang	jhchang@sogang.ac.kr
Soongsil Univ (16)	Counselor	Young Han	Kim	younghak@ssu.ac.kr
Sung Kyun Kwan Univ (51)	Counselor	Joong Kyu	Kim	jkkim@skku.edu
Yonsei Univ (108)	Counselor	Hongil	Yoon	hyoon@yonsei.ac.kr

● New Student Branch Chapters

Two new student branch chapters (Seoul National University of Science and Technology Electronics Packaging Society Student Branch Chapter, Gachon University Sensors Council Student Branch Chapter) were finally approved.

● IEEE Seoul Section Student Paper Contest 2022:

The student activity in Seoul Section can be highlighted by the Student Paper Contest 2022 which was held at Dongguk University in Dec. 17, 2022. 50 papers were presented and evaluated for prizes.

- **17 December 2020, Dongguk University (13:00-16:00)**
- 50 papers submitted

- Grand Prize: 300,000 (1)
- Gold Prize: 200,000 (2)
- Silver Prize: 100,000 (3)

B.5 Affinity Group Activities

- Professional Activities Committee conducted a seminar on “The Status of ICT Women Resource According to Industrial Structure Change”. (Dr. Misook Lim, KT advisor)
- Higher Member Promotion Committee conducted 2021 IEEE Seoul Section Higher Membership Promotion Ceremony, Jeju Ocean Suites, Feb 26, 2022
- History Committee submitted the IEEE Milestone application for the achievement of Commercialization of CDMA Cellular Communication Systems.
- During SWYL 2022, Seoul section conducted various affinity group activities, including Women in engineering (WIE) and Higher Membership Promotion this year.

B.6 Awards & Recognition Activities

- **2022 IEEE/IEIE Joint Award ceremony**
 - Date: June 30, 2022
 - Place: Jeju Shinhwa World, Korea
 - Funding support: 0 KRW
 - Number of attendees: 100
 - Activities: IEEE/IEIE Joint Award was presented to Jaehyuk Choi, Professor at KAIST, in 2022.
- To encourage chapter activities, IEEE Seoul Section created the Best Chapter Award in 2022. IEEE VTS chapter was received the award this year.
- 2022 IEEE Seoul Section Certificates of Appreciation was given to 11 section chairs/members for their support to IEEE Seoul section in 2022.

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

- Home Page of the Section was opened at <http://sites.ieee.org/seoul> thanks to the efforts of web coordinator Prof. Jinyoung Hwang of Korea Aerospace University. The web pages were updated regularly.
- Unofficial facebook pages were open at <http://www.facebook.com/ieee.seoul> for IEEE Seoul Section.

B.8 Industry Relations

N/A

B.9 Humanitarian Technology Activities

N/A

B.10 Community Activities

N/A

PART C - OTHERS

C.1 Special Events

- **IEEE R10 SYWL 2021 was held in Jeju Shinhwa World, Aug 11-13, 2022.**
 - The IEEE Region 10 Student, Young Professionals, Women-in-Engineering and Life Member Congress 2022 (R10 SYWL Congress 2022), a flagship event of IEEE Region 10, held at Jeju Island, Korea, from 11th to 14th August 2022.
 - More than 150 participants from 15 countries were attended the congress.

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

- **Meetings for Connection with Local National Societies**

There are 3 national institutes in Korea having national society agreement (NSA) with IEEE, i.e.,

- The Institute of Electronics and Information Engineers (IEIE),
- Korea Institute of Communication and Information Science (KICS)
- Korea Institute of Information Science and Engineering (KIISE).

Their NSA with IEEE were expired in 2021 and Seoul Section contacted the three institutions to renew their NSA. The NSA with KICS was successfully renewed in 2021. The NSA application from KIISE was submitted to the IEEE in 2021 and the IEIE is preparing the renewal application. The new NSA application from the Korean Institute of Electromagnetic Engineering Society (KIEES) submitted in 2021 and was finally approved on July 25, 2022.

- IEEE Seoul section approved Technical Co-Sponsorship for the 7th International Conference on Computing, Communication and Security (ICCCS 2022) held at Sejong University, Nov. 3~5, 2022.

C3. Collaboration with other IEEE Sections

N/A

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

- IEEE Seoul section aided IEEE Seoul Section Communications Society Chapter (chair: Byunghyo Shim) and Electron Devices Society Chapter (Wooyoung Choi)

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

- To facilitate professional networking, IEEE Seoul Section assisted to form new technical chapters and invested efforts to invite the chairs to ExCom meetings, to national council meetings, and to the annual Higher Membership Promotion Committee meeting. Now there are 40 technical chapters, including 3 joint chapters, and three affiliation groups, YP, WIE and LM, who are going through team building.

- To provide more volunteer leadership opportunities, most of the organizing committees of the SYWL 2022, and Student Paper Contest 2021 were appointed from the IEEE Seoul Section's officers, members, and student members. The chapter chairs and student branch officers are encouraged to launch and host local activities and meetings. Those officers were recognized and appreciated in the annual meeting.
- The student activity in Seoul Section can be highlighted by the Student Paper Contest 2022 which was held at Dongguk University in Dec. 17, 2022. 50 papers were presented and evaluated for prizes.
- IEIE-IEEE Joint Award was given to Prof. Jaehyuk Choi (KAIST).
- The General Assembly of IEEE Seoul Section was held on 17 December after the IEEE Seoul Section Student Paper Contest. In the General Assembly meeting, prof. Gilsoo Jang was elected to serve as the chair of IEEE Seoul Section in 2023.
- Multidisciplinary Mentoring for Future IT Leaders was held in Dongguk University, June 4~5, 2022. Strategic Planning Committee chair, Prof. Hyun-Chang Park served to organize the event. Young mentors mentored young mentees.
- Student Branch Coordination Committee applied 2022 IEEE Region 10 Section Student Branch Revival Fund on April 29, 2022 and approved on July 8.
- Volunteer Recognition Committee submitted application for IEEE MGA Outstanding Section Award and IEEE Region 10 Outstanding Volunteer Award, but they were not selected

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

PART D - GOALS AND PLANS

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

The IEEE Seoul Section will hold the spirit of the IEEE and align section objectives to the working plans of R10. The section has several active plans for the year of 2021. Some of work items are listed below.

- After successfully hosting SYWL 2022, we are going to evaluate the congress with respect to technical, professional, and financial aspects. Keep the due date and adhere to IEEE congress guidelines and audits.
- Increase retention rate by promoting new industry memberships. Needs to create an industrial advisory board.
- Promote student branch activities such as Student Paper Contest, IEEE Day and IEEE Students and YP Idea Contest such as IEEE Rising Star Conference.
- Promote membership elevation to higher memberships.
- Support technical activities for chapters in Seoul Section.
- Strengthen member service for all section members through website by providing appropriate contents without visiting IEEE main page.
- Enhance membership and fellowship through the annual higher membership promotion committee (HMPC) activities.

- Invite volunteer officers to the updated applications and manuals for membership development and conference organizations through the officer workshops.
- Publish section newsletter to communicate with other members in the section.
- Collaborate more closely with other academic societies of Korea including IEIE (IEE K), KICS, KIEE, KIEES, KIISE, KIPE, KIPS, KOSBE, and OSK.
- Support and encourage members to participate in Region 10 activities as well as HQ activities. The IEEE Seoul Section will hold the spirit of the IEEE and align section objectives to the working plans of R10. We value humanity and we value recognition and appreciation.
- The section will continue to honor the services of volunteers and members by recognizing and appreciating through media, newsletter, and meetings. Not only the services of the individuals, but also the achievements of chapters, branches, and industries will be disclosed for recognition through the Milestone plaques, awards, prizes, badges, and certificates.

D.2 Goals and Future Plans

N/A

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

N/A

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

N/A

Appendix (Photographs)



IEEE Region 10 SYWL 2022



Student Paper Contest and Annual General Meeting 2022



2022 IEEE/IEIE Joint Award ceremony held on June 30, 2022 at Jeju