

Region 10 Guangzhou Section Report Format

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List

Position	Last Name	First Name	Member No.
Chair	Liu	Derong	1535400
Vice Chair	Zhang	Xiuyin	90747709
Vice Chair	Chen	Weineng	80729331
Professional Activities (Chair)	Gao	Ying	95116933
Membership Development (Committee Chair)	Zhan	Zhihui	90581021
Coordinator (Chapter Coordination Committee Chair)	Tang	Jie	91185295
Student Activities (Committee Chair)	Yahui	Jia	93189303
Secretary & Treasurer	Hu	Xiaomin	80465144

- Section Highlights

In 2022, five meetings were held by Guangzhou Section, covering the fields of dynamic learning, cyber-physical systems, swarm intelligence, membership development meetings, and a strategic planning meeting of the IEEE Guangzhou Section. The series of lectures attracted more than 200 members and targeted audiences.

- Major Events (International, National)

7 June 2022 -- Membership Development Meeting

21 Oct 2022 -- Strategic Planning Meeting of the IEEE Guangzhou Section

- Major Chapter Activities

Five new chapters were formed in 2022.

NO.	OU Name	Position	Last Name	First Name	Position Start	Position End
1	Guangzhou Section Chapter,RA24	Chapter Chair	Pan	Yongping	29-Jun-22	29-Jun-24
		Chapter Secretary	Zhong	Yong	1-Jul-2022	30-Jun-2025
		Chapter Vice Chair	Qian	Huihuan	1-Jul-2022	30-Jun-2025
2	Guangzhou Section Chapter,VT06	Chapter Chair	zhang	shengli	19-Jun-2022	19-Jun-2024
		Chapter Secretary	Ma	Yuan	1-Jun-2022	31-May-2025
		Chapter Vice Chair	Wen	Miaowen	1-Jun-2022	31-May-2025
3	Guangzhou Section Chapter,CS23	Chapter Chair	Deng	Feiqi	17-Dec-22	17-Dec-24
4	Nanfeng College-Guangzhou,TEM14,SYS45	Advisor	PAN	CHUNG LIEN	30-Nov-22	30-Nov-24
		Chair	Feng	Yawen	30-Nov-22	30-Nov-24
5	Guangzhou Section Affinity Group,YP	Affinity Group Chair	Liu	Jialin	7-Jul-22	7-Jul-22

- Major Student and Affinity Group Activities

Two student branches elected the new officer teams. The student branches in Guangdong also took part in various activities such as competitions and lectures.

- Awards

None.

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

- Summary (as per submitted on NetSuite)

As in the financial report.

- Any other financial activities

None.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

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

19/02/2021 2918 members

31/12/2022 3705 members

11/02/2023 3948 members

The member number has increased each year.

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

Several high quality meetings and lectures were supported by the Section and they provided a platform for section members to communicate with each other.

B.2 Chapter Activities

- Total number of Chapters in the Section

There are 23 Chapters in the section.

- Number of Chapters formed in the current year

Five new chapters were formed in 2022.

- Number of active Chapters (Chapters who have reported required number of meetings during the year)

All the 23 Chapters are active.

- Summary of Chapter activities (Chapter wise with attachment table/information)

Unit	SPOID	Total	Unit	SPOID	Total
AP03/MTT17	CH10740	5	CIS11-Shenzhen	CH10977	6
RA24	CH11023	2	SMC28	SBC10028	2
IE13	SBC10028B	2	NANO42 Guangdong	CH10818	4
PEL35	CH10973	9	SP01/COM19-Shenzhen	CH10760	3
ED15	CH10419	2	EMB18 Shenzhen	CH10519	1
PHO36 Guangdong	CH10748	24	BIO46	CH10990	2
CIS11	CH10479	2	ED15/SSC37 Shenzhen	CH10695	5
SSC37	CH10838	2	CAS04 Shenzhen	CH10842	3
GRS29	CH10890	21	IT12	CH10911	3
SMC28	CH11033	2			

The Details of Events in 2022

NO.	Event Title	Event Date	Event Category	SPOID	Organizational Unit	Number of Attendance
1	Millimeter-wave integrated circuit and antenna-in-package for advanced wireless system	2022/11/18 20:00	Technical	CH10740	Guangzhou Section Chapter, AP03/MTT17	196
2	Research on Beamforming of Continuous Linear Source—Compressed High-Order Mode Dipoles	2022/11/10 15:00	Technical	CH10740	Guangzhou Section Chapter, AP03/MTT17	59
3	Microwave and Millimeter-Wave Filtennas and their Applications	2022/9/21 16:00	Technical	CH10740	Guangzhou Section Chapter, AP03/MTT17	n/a
4	IEEE AP-S Young Professional Ambassador Talk from Dr Wei LIN	2022/4/15 14:30	Technical	CH10740	Guangzhou Section Chapter, AP03/MTT17	125
5	Key Microwave and RF Components for Wireless Communication Sub-systems : Guangzhou Section Chapter, AP03/MTT17	2022/12/1 15:00	Technical	CH10740	Guangzhou Section Chapter, AP03/MTT17	48
6	Fuzzy Transfer Learning	2022/11/18 16:20	Technical	CH10977	Guangzhou Section Chapter,CIS11-Shenzhen	84
7	Imbalanced Data Learning: Always Needed?	2022/8/23 10:00	Technical	CH10977	Guangzhou Section Chapter,CIS11-Shenzhen	30
8	Industry Relations: An Introduction to Neuromorphic Computing	2022/6/29 20:00	Technical	CH10977	Guangzhou Section Chapter,CIS11-Shenzhen	70
9	Neural MMO: A Massively Multiagent Game Environment for Reinforcement Learning	2022/5/10 20:00	Professional	CH10977	Guangzhou Section Chapter,CIS11-Shenzhen	100
10	Research for Fun – How to Perform Innovative Research, Write Technical Papers, and Get your Papers Cited?	2022/1/5 20:00	Professional	CH10977	Guangzhou Section Chapter,CIS11-Shenzhen	350
11	Genetic Algorithms in Nineties and Three Breakthrough Ideas : Guangzhou Section Chapter,CIS11-Shenzhen	2022/12/1 11:00	Technical	CH10977	Guangzhou Section Chapter,CIS11-Shenzhen	137
12	AIRS in The AIR: Joint Seminar by AIRS and IEEE GZ Section RAS Chapter	2022/11/8 16:00	Technical	CH11023	Guangzhou Section Chapter,RA24	n/a
13	IEEE RAS Guangzhou Chapter Opening Seminar	2022/8/9 10:00	Technical	CH11023	Guangzhou Section Chapter,RA24	50
NO.	Event Title	Event Date	Event Category	SPOID	Organizational Unit	Number of Attendance
14	广东工业大学学生分支换届大会	2022/11/8 8:22	Humanitarian	STB10028	Guangdong University of Technology	4
15	Tensor Methods for Multidimensional Data Analysis: Promises, Challenges and Opportunities	2022/11/1 9:36	Technical	STB10028	Guangdong University of Technology	45
16	The Evolution of Transform-Based Tensor Nuclear Norm	2022/10/1 16:00	Technical	STB10028	Guangdong University of Technology	45
17	ieee学生分会成员例会	2022/10/12 15:30	Administrative	SBC10028A	Guangdong University of Technology,PE31	4
18	粤港澳三地讲座二	2022/10/5 17:50	Administrative	SBC10028A	Guangdong University of Technology,PE31	4
19	粤港澳三地讲座	2022/9/26 19:30	Administrative	SBC10028B	Guangdong University of Technology,IE13	4
20	第三十五期“思源学术沙龙”	2022/7/20 16:00	Administrative	SBC10028B	Guangdong University of Technology,IE13	4
21	Tensor networks for unsupervised machine learning	2022/9/1 9:30	Technical	SBC10028	Guangdong University of Technology,SMC28	4
22	High-Dimensional Image Recovery: When Matrix/Tensor Decomposition Meets Unsupervised Learning	2022/6/23 11:30	Technical	SBC10028	Guangdong University of Technology,SMC28	4
23	Membership Drive and the NCG IEEE Student Branch 2022-3 Annual Report	2022/10/26 0:45	Technical	STB60207385	Nanfang College-Guangzhou	60
24	"Meet Editors" (TEMSCON-ASPAC 2022) Local Participation and Discussion	2022/9/22 10:00	Technical	STB60207385	Nanfang College-Guangzhou	10
25	In-person Seminar on "the 5th China Service Design Congress" (CSDC2022)	2022/9/4 14:00	Technical	STB60207385	Nanfang College-Guangzhou	32
26	Workshop for Participating in the China College Students' "Internet Plus" Innovation and Entrepreneurship Competition - Industr tracks	2022/6/16 10:00	Technical	STB60207385	Nanfang College-Guangzhou	30
27	Celebration Party of the Formation Team for Nanfang College-Guangzhou IEEE Student Branch	2022/6/11 20:00	Nontechnical	STB60207385	Nanfang College-Guangzhou	10
28	Workshop: Writing Conference Papers for TEMSCON-ASPAC 2022	2022/5/23 12:00	Technical	STB60207385	Nanfang College-Guangzhou	30
NO.	Event Title	Event Date	Event Category	SPOID	Organizational Unit	Number of Attendance
29	9th Talk of PELS2C Hosted by IEEE Guangzhou Section PELS Chapter	2022/9/29 10:00	Professional	CH10973	Guangzhou Section Chapter,PEL35	93
30	8th Talk of PELS2C Hosted by IEEE Guangzhou Section PELS Chapter	2022/8/21 10:00	Professional	CH10973	Guangzhou Section Chapter,PEL35	50
31	7th Talk of PELS2C Hosted by IEEE Guangzhou Section PELS Chapter	2022/7/26 10:00	Professional	CH10973	Guangzhou Section Chapter,PEL35	117
32	6th Talk of PELS2C Hosted by IEEE Guangzhou Section PELS Chapter	2022/6/27 10:00	Professional	CH10973	Guangzhou Section Chapter,PEL35	50
33	5th Talk of PELS2C Hosted by IEEE Guangzhou Section PELS Chapter	2022/5/31 13:30	Professional	CH10973	Guangzhou Section Chapter,PEL35	438
34	4th Talk of Power Electronics Seminar of South China (PELS2C)	2022/4/23 11:00	Professional	CH10973	Guangzhou Section Chapter,PEL35	438
35	3rd Talk of Power Electronics Seminar of South China (PELS2C)	2022/3/27 10:00	Technical	CH10973	Guangzhou Section Chapter,PEL35	220
36	2nd Talk of Power Electronics Seminar of South China (PELS2C)	2022/2/24 14:00	Professional	CH10973	Guangzhou Section Chapter,PEL35	114
37	1st Talk of Power Electronics Seminar of South China (PELS2C)	2022/1/20 10:00	Professional	CH10973	Guangzhou Section Chapter,PEL35	117
38	2022 International Conference on Optics, Display and New Energy	2022/9/24 9:17	Professional	CH10818	Guangzhou Section Chapter, NANO42 Guangdong	140
39	Conference on Energy, Materials and Photonics, 2022	2022/7/24 8:28	Professional	CH10818	Guangzhou Section Chapter, NANO42 Guangdong	360
40	2022 International Conference on Advanced Semiconductors and Displays	2022/5/18 9:01	Technical	CH10818	Guangzhou Section Chapter, NANO42 Guangdong	340
41	2022 Conference on Optoelectronics, Energy and New Materials	2022/1/7 8:00	Professional	CH10818	Guangzhou Section Chapter, NANO42 Guangdong	300
42	On the Ultimate Scaling of CMOS Devices and Technology	2022/8/23 9:00	Technical	CH10419	Guangzhou Section Chapter,ED15	60
43	Symposium on High Performance and High Reliability Test Technology _ MQ of IEEE EDS Guangzhou Chapter	2022/7/29 10:00	Technical	CH10419	Guangzhou Section Chapter,ED15	100
44	Keynote Speech by Prof. Zhu Han from University of Houston	2022/8/12 9:00	Technical	CH10760	Guangzhou Section Jt. Chapter, SP01/COM19-Shenzhen	50
45	Keynote Speech by Prof. Raymond Yeung from CUHK	2022/8/11 10:10	Technical	CH10760	Guangzhou Section Jt. Chapter, SP01/COM19-Shenzhen	50
46	Keynote Speech by Prof. Vincent Lau from HKUST	2022/8/11 9:10	Technical	CH10760	Guangzhou Section Jt. Chapter, SP01/COM19-Shenzhen	50

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

None.

B.4 Students Activities

- Total number of Student Branches in the Section

There were 5 student branches.

No.	Student Brach
1	Chinese University of Hong Kong-Shenzhen
2	Guangdong University of Technology
3	Tsinghua Shenzhen International Graduate School
4	Shenzhen Technology University
5	Nanfeng College – Guangzhou

- Number of Student Branches formed in the current year

None.

- Section level student activities (student congress, paper and other contests, awards etc)

None.

- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)

Five active SBs.

- Summary of Student Branch activities (Student Branch wise with attachment table/information)

No.	Student Brach	No. of Activities
1	Chinese University of Hong Kong-Shenzhen	7
2	Guangdong University of Technology	4
3	Tsinghua Shenzhen International Graduate School	2
4	Shenzhen Technology University	2
5	Nanfeng College – Guangzhou	5

B.5 Affinity Group Activities

- Young Professional (YP)

None.

- Women In Engineering (WIE)

Two activities.

- Life Member (LM)

None.

B.6 Awards & Recognition Activities

- Award constituted by the Section

None.

- 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)

IEEE China.

- Home Page of the Section (give the URL and how often it is updated)

<http://ieeeguangzhou.org/>

- Other means of contacts with Section members including social media

http://cn.ieee.org/china_section.html

B.8 Industry Relations

- Membership growth and retention
- Activities for/with industrial members

Not available.

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
- SIGHT Activities

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

- Newsletter (name and number of issues in the year)

IEEE China.

- Home Page of the Section (give the URL and how often it is updated)

Under construction.

- Other means of contacts with Section members including social media

http://cn.ieee.org/china_section.html

B.8 Industry Relations

- Membership growth and retention

- Activities for/with industrial members
Not available.

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
- 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
- Details of joint activities
- Benefit to IEEE members (for example discounts, access to technical information etc.)
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)

None.

C.3 Collaboration with other IEEE Sections

- Support extended to neighboring Sections
- Joint activities with any other Section

None.

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

- Support extended for organising technical, educational and professional activities
- Joint activities for membership development
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section

Not available.

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

Not available.

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

None.

PART D - GOALS AND PLANS

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

For enhancing member benefits & making IEEE a preferred professional platform in Guangdong, an annual technology frontier forum will be held. The participants are all the IEEE members in Guangdong Section. The forum will have keynotes and the opportunity for the members to meet and communicate together. Building the connections of research, academia and industry is our target.

D.2 Goals and Future Plans

Inter-Chapter Activities, and the establishment of new student branches.

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

Routine publicity of local news of IEEE such as conferences, students' competitions, Lectures will be advertised to our members. Our target is to attract more participants of our members and potential new members.

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

1. Build an IEEE framework connecting main universities and modern industries in the Guangdong Province through the formation of chapters and student branches.
2. Maintain a series of IEEE activities in every month.
3. Attract more members to join in the activities and let them know the benefits of joining IEEE.