

Tainan Section Report

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List
 - Chair: Jiann-Fuh Chen, chenjf@mail.ncku.edu.tw
 - Vice Chair (Deputy): Chung-Ho Chen, chchen@mail.ncku.edu.tw
 - Vice Chair (Technical Activities): Gwo-Giun Lee, clee@mail.ncku.edu.tw
 - Vice Chair (Conferences): Shu-Mei Guo, guosm@mail.ncku.edu.tw
 - Vice Chair (Industry): Chih-Lung Lin, cllin@ee.ncku.edu.tw
 - Secretary: Meng-Hsueh Chiang, mhchiang@mail.ncku.edu.tw
 - Treasurer: Kuang-Wei Cheng, kwcheng@ee.ncku.edu.tw
 - Professional Activities: Sun-Yuan Hsieh, hsiehsy@mail.ncku.edu.tw
 - Membership Development: Lih-Yih Chiou, lihyih@mail.ncku.edu.tw
 - Student Activities: Che-Wei Lin, lincw@mail.ncku.edu.tw
 - Educational Activities: Peng-Ting Chen, chen@mail.ncku.edu.tw
 - Newsletter Editor: Kuo-Sheng Cheng, kscheng@mail.ncku.edu.tw
 - Awards & Recognition Committee Chair: Tsorng-Juu Liang, tjliang@mail.ncku.edu.tw
 - Nominations and Appointments Chair: Kuen-Jong Lee, kjlee@mail.ncku.edu.tw
- Section Highlights

In the year of 2020, Tainan Section held 1 annual meeting, 9 administrative meetings, and 1 Professional workshop. Further, Tainan Section provided supports to our affiliated chapters in organizing their professional related activities. In total, there were 81 technical activities held by our chapters in the year of 2020.
- Major Events (International, National)

In the year of 2020, Tainan Section kept putting high efforts in institutionalization of our section administrative and also financial operation process with anticipation of sustainability. Cooperating with the Department of Electrical Engineering, NCKU, we aimed to design our section operation procedure in being seamless and without any idling period in between two section chair's transfer. Further, the section provided banking and accounting supports to the conferences held by our chapters and members.

Several main technical activities are listed in the followings. 10 keynote speakers were invited to 10 technical activity distinguished lectures:

 1. Chia-Wen Lin,
2020/04/16, When Deep Learning Meets IC Fabrication: A Data-Driven Prediction Approach
 2. Chong-Yung Chi,
2020/05/14, Local-Density Subspace Distributed Clustering for High-Dimensional Data
 3. Wen-Rong Wu,
2020/08/24, 5G and Massive MIMO
 4. Che-Wei Lin,
2020/09/16, MEDICAL APPLICATION OF WEARABLE DEVICES WITH AI
 5. Nishimura Kazuko,
2020/10/22, An Organic-Photoconductive-Film CMOS Image Sensor's Advanced Technologies
 6. Yu-Che Tsai,
2020/10/26, Hand-on Lecture on Deep Learning with Pytorch
 7. Dejan Markovic,
2020/11/11, Closed-Loop Neuromodulation," attracted a large number of participants
 8. Wei-Yu Li,
2020/11/28, Highly Integrated Multi-band Millimeter Wave Array Antenna for Terminal Devices
 9. Tony Q.S. Quek
2020/12/03, Start Thinking About 6G
 10. Joe Chen,
2020/12/22, Overview of ARC Processors and the Development Platform (embARC) for AIoT Applications

- Major Chapter Activities
In 2020, the Broadcast Technology Society Tainan Chapter was very active in organizing technical activities. “Taiwan Telecommunications Annual Symposium” was held on January 18, 2020 and resulted in a very successful activity with around 1,250 attendances. Further in 2020, BT Chapter held 12 more technical activities. BT Chapter Chair, Prof. Chih-Peng Li, worked hard to apply for support from IEEE BT Society.
- Major Student and Affinity Group Activities
Due to the COVID-19 pandemic restriction, the student are encouraged to participate on-line seminars rather than in person activities.
- Awards
 - **2020 Region 10 Best Membership Growth Medium Section Award**
 - 2020 was the 8th IEEE Tainan Section Annual Awards which consists of 8 different awards. Following winners were selected from 24 nominees after thorough review by 1 Awards Chair and 9 reviewers.
 - Best Master Thesis Award** – Yong-Ting Ni and Bo-Ying Huang
 - Best Ph.D. Thesis Award** – Wei-Che Chien and Yi-Wei Huang
 - Best Young Professional Member Award** – Yuan-Pin Lin, Yen-Chen Liu, Yen-Ming Chen and Kun-Chih Chen
 - Outstanding Technical Achievement Award** – Chun-I Fan and Hung-Yu Kao
 - Best Service Award** – Jung-Chieh Chen
 - IEEE Tainan Section Macronix Award** – Tong-Yu Hsieh
 - IEEE Tainan Section Himax Award** – Pei-Yin Chen
 - IEEE Tainan Section Delta Award** – Hong-Tzer Yang

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

- Summary (as per submitted on NetSuite)
Tainan Section supported all programs and activities at both the section and chapter levels in 2020. To encourage and promote student activities, Tainan Section provided budget for supporting Conferences. In 2020, the income was TWD 738,111 and the expense was TWD 872,988. Thus the final balance is TWD 1,135,169 and USD 2,300 as of December 31, 2020.
- Any other financial activities
N/A

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

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

Grade	2018	2019	% Change	2020	% Change
Life Fellow	4	5	25.00%	8	60.00%
Fellow	16	17	6.25%	15	-11.76%
Life Senior	1	2	100.00%	1	-50.00%
Life Member	1	1	0.00%	1	0.00%
Senior Member	116	116	0.00%	123	6.03%
Member	485	491	1.24%	441	-10.18%
Associate Member	12	13	8.33%	17	30.77%
Affiliate	12	17	41.67%	12	-29.41%
Graduate/Student	192	213	10.94%	200	-6.10%
Individual	1	1	0.00%	-	-
TOTAL	840	876	4.29%	818	-6.62%

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

Recruiting new student member is one of the main focus of Tainan Section. We provided subsidies for the student member first year with half membership fee and supported selected student in attending international conference.

Besides, we opened all the activities held by the section or chapters to non-member participants under the consideration of letting more people know IEEE by providing information on new technologies in every specialized research area. In 2020, we had 1,717 members and 7,883 nonmembers who participated in Tainan Section's activities.

B.2 Chapter Activities

- Total number of Chapters in the Section
Currently there are 15 Chapters, 1 Council Chapter, 2 Affinity Groups, and 2 Student Branches in the Tainan Section. The detailed information is as follows:
 1. Antennas and Propagation Society Tainan Chapter / Shu-Chuan Chen
 2. Broadcast Technology Society Tainan Chapter / Chih-Peng Li
 3. Computer Society Tainan Chapter / Sun-Yuan Hsieh
 4. Circuits and Systems Society Tainan Chapter / Kuang-Wei Cheng
 5. Computational Intelligence Society Tainan Chapter / Hung-Yu Kao
 6. Communications Society Tainan Chapter / Tsang-Yi Wang
 7. Electron Devices Society Tainan Chapter / Wen-Kuan Yeh
 8. Engineering in Medicine and Biology Society Tainan Chapter / Kuo-Sheng Cheng
 9. IEEE Young Professionals Tainan Chapter / Ing-Chao Lin
 10. Information Theory Society Tainan Chapter / Trieu-Kien Truong
 11. Microwave Theory and Techniques Society Tainan Chapter / Janne-Wha Wu
 12. Nanotechnology Council Tainan Chapter / Yu-Cheng Lin
 13. Systems, Man, Cybernetics Tainan Chapter / Po-Hsun Cheng
 14. Signal Processing Society Tainan Chapter / Mong-Fong Horng
 15. Solid-State Circuit Society Tainan Chapter / Tsung-Heng Tsai
 16. Vehicular Technology Society Tainan Chapter / Sok-Ian Sou
 17. Women in Engineering Tainan Chapter / Shu-Mei Guo
 18. Sensors Council Chapter Tainan Chapter / Teen-Hang Meen
 19. National Cheng Kung University Student Branch / Che-Wei Lin
 20. National Sun Yat-sen University Student Branch / Che-Wei Lin
- Number of Chapters formed in the current year
In the end of 2020, the Industry Application Society Tainan Chapter/ Chun-Lien Su was applied to be formed.
- Number of active Chapters (Chapters who have reported required number of meetings during the year)

#	Meeting Title	Meeting Date	Total	Member	Non-Member	Event Category
Section						
1	Regular meeting	2020/1/13	11	3	8	Administrative
2	Regular meeting	2020/1/22	20	3	17	Administrative
3	Regular meeting	2020/2/19	13	3	10	Administrative
4	Regular meeting	2020/3/13	10	2	8	Administrative
5	Regular meeting	2020/5/29	8	2	6	Administrative
6	Meeting of Director & Supervisor	2020/7/1	31	27	4	Administrative
7	Regular meeting	2020/8/12	11	3	8	Administrative
8	Meeting of Director & Supervisor	2020/9/1	35	31	4	Administrative
9	Regular meeting	2020/10/28	10	2	8	Administrative

10	Annual meeting	2020/12/4	79	75	4	Administrative
11	The Challenge of Enter a Happy Company	2020/12/10	62	2	60	Industry Relations
AP03						
1	The evolution of airborne radars :	2020/3/6	27	2	25	Technical
2	Future challenges of electromagnetic pulse protection engineering	2020/4/10	27	2	25	Technical
3	iPas Student Camp for Antenna Measurement	2020/4/24	32	2	30	Technical
4	iPas Student Camp for Antenna Design	2020/5/16	37	2	35	Technical
5	iPas Teacher Camp for Antenna Design	2020/7/8	31	6	25	Technical
6	The Applications of Artificial Intelligence in Radar Systems	2020/9/26	27	2	25	Technical
7	Highly Integrated Multi-band Millimeter Wave Array Antenna for Terminal Devices	2020/11/28	45	35	10	Technical
BT02						
1	Taiwan Telecommunications Annual Symposium	2020/1/14	1250	350	900	Technical
2	Towards Smart and Reconfigurable Environment: Intelligent Reflecting Surface Aided Wireless Networks	2020/1/17	140	20	120	Technical
3	Polar decoding of binary linear block codes	2020/4/28	140	20	120	Technical
4	Deploy your life ahead of time	2020/5/5	140	20	120	Technical
5	mmWave Radar-based Hand Gesture Recognition using Range-Angle Image	2020/5/12	140	20	120	Technical
6	Reliable Content Delivery in Next Generation Wireless Networks	2020/5/26	140	20	120	Technical
7	On Stochastic Link and Energy Scheduling for Energy Harvesting Bidirectional Communications	2020/6/2	140	20	120	Technical
8	Multi-user iterative detection and decoding receivers: From algorithms to VLSI realizations	2020/9/25	140	20	120	Technical

9	Data analysis applied to financial trading strategies	2020/9/29	140	20	120	Technical
10	Introduction to 4G/5G Mobile Communications	2020/10/27	140	20	120	Technical
11	An Introduction to Quantum Information Technology	2020/11/24	140	20	120	Technical
12	Living in an AI World A Personal Perspective	2020/12/15	140	20	120	Technical
C16						
1	原來世界也會長大的學思經驗分享	2020/8/20	23	3	20	Technical
2	Start Thinking About 6G	2020/12/3	35	5	30	Technical
3	如何運用人工智慧解決社會問題	2020/12/4	83	3	80	Technical
CAS04						
1	Architecture, Space, Technology, and Learning	2020/3/12	57	6	51	Technical
2	Cyber Norm Governance	2020/4/9	54	7	47	Technical
3	When Deep Learning Meets IC Fabrication: A Data-Driven Prediction Approach	2020/4/16	69	9	60	Technical
4	From AI to Additional Insight	2020/5/7	72	12	60	Technical
5	Local-Density Subspace Distributed Clustering for High-Dimensional Data	2020/5/14	57	10	47	Technical
6	IEEE SSCS/CASS Annual Member Meeting	2020/8/5	33	33	0	Administrative
7	Intelligent System Design & EDA Industry - The System Design and Verification Landscape in 2020	2020/10/22	63	11	52	Technical
8	From NCKU Science/Engineering Student to Entrepreneur- Founding WIN Semi, and New Startup Ambitions	2020/12/4	70	5	65	Technical
9	Overview of ARC Processors and the Development Platform (embARC) for AIoT Applications	2020/12/22	39	7	32	Technical
10	Himax WE-I Plus for Ultra-low Power Endpoint AI	2020/12/22	39	7	32	Technical
CIS11						
1	The 8th International Workshop on Natural Language Processing for Social Media	2020/4/20	80	40	40	Technical
2	2020 IEEE CIS Online Summer School on Computational Intelligence for Human and Robot Co-learning	2020/8/21	100	50	50	Technical

3	Hand-on Lecture on Deep Learning with PyTorch	2020/10/26	50	25	25	Technical
4	AI Cup Competition Tutorial I	2020/10/27	105	5	100	Technical
5	AI Cup Competition Tutorial II	2020/10/28	83	3	80	Technical
6	AI Cup Competition Tutorial III	2020/11/2	53	3	50	Technical
7	The International Conference on Technologies and Applications of Artificial Intelligence (TAAI) 2020	2020/12/3	440	40	400	Technical
COM19						
1	Taiwan Telecomcommunications Annual Symposium 2020	2020/1/14	876	99	777	Technical
2	2020 SUMMER SCHOOL ON INFORMATION/COMMUNICATION THEORY AND TECHNOLOGIES	2020/8/24	120	20	100	Technical
ED15						
1	Symposium on Nano Device technology 2020	2020/5/21	250	50	200	Professional
2	Distinguished Lecturer	2020/9/24	73	18	55	Technical
3	Distinguished Lecturer in ED Tainan Chapter	2020/9/24	73	13	60	Professional
4	Distinguished Lecturer in ED Tainan Chapter	2020/10/21	50	10	40	Professional
5	DISTINGUISHED LECTURER IN ED TAINAN CHAPTER	2020/10/21	74	14	60	Technical
EMB18						
1	Invited Talk: Medical application of wearable devices with AI	2020/9/16	56	3	53	Technical
2	Invited Talk: Innovation designs of medical devices	2020/9/30	56	3	53	Technical
3	Invited Talk: In vitro Diagnostic System	2020/10/14	57	4	53	Technical
4	BME Chapter Administration meeting	2020/11/14	5	5	0	Administrative
5	Invited talk: Automated mammogram lesion detection using empirical mode decomposition and convolutional neural network	2020/12/16	123	2	121	Technical
IT12						
1	Signal Processing for Radar and Image	2020/4/11	63	3	60	Technical
2	Signal Processing for Radar and Image	2020/5/21	53	3	50	Technical
3	System and Methods for Image Enhancement	2020/10/26	62	2	60	Technical
4	Introduction to 5G NR elements	2020/12/16	62	2	60	Technical
5	On the Design of Near-optimal Sparse Code Multiple Access Codebooks ?	2020/12/17	53	3	50	Technical

MTT17						
1	[MTT-S Tainan Chapter] 2020 Jan. Invited Talk - Introduction to Full Duplex RF Front-Ends	2020/1/8	45	5	40	Professional
2	Technical Talk on Advanced Substrate and PCB for High Frequency and High Speed Applications	2020/10/30	36	6	30	Technical
3	Technical Talk on Advanced Substrate and PCB for High Frequency and High Speed Applications	2020/10/30	36	6	30	Technical
4	Technical Talk on 3GPP 5G Over-the-Air Requirement and Test Method	2020/11/27	210	10	200	Technical
NANO42						
1	You are Free to Balance World Class Research and the Challenges from Making It Real with Startups	2020/6/11	110	10	100	Technical
2	Preoperative Evaluations of Dental Implants and Bone Healing Prediction by Deep Learning Network	2020/6/11	110	10	100	Technical
3	Case Studies of Multidisciplinary Solid Mechanics in Engineering and Applied Sciences	2020/6/18	110	10	100	Technical
4	Materials by Design: AI in Medianics and Material design	2020/9/10	110	10	100	Technical
5	An Introduction to 5G Technology and Opportunities	2020/9/24	110	10	100	Technical
6	Digital Fusion and Smart Transformation	2020/10/29	110	10	100	Technical
SEN39						
1	3rd Eurasian Conference on Educational Innovation 2020 (ECEI 2020)	2020/2/5	90	20	70	Professional
2	The 3rd Eurasian Conference on Educational Innovation 2020 (ECEI 2020)	2020/2/5	90	20	70	Professional
3	2nd IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability 2020 (ECBIOS)	2020/5/29	75	15	60	Technical
4	2nd Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability 2020 (ECBIOS)	2020/5/29	130	20	110	Professional
5	3rd International Conference on Knowledge Innovation and Invention 2020 (ICKII)	2020/8/21	109	20	89	Professional
6	3rd IEEE International Conference on Knowledge Innovation and Invention 2020 (IEEE ICKII 2020)	2020/8/21	75	20	55	Technical
7	2020 IEEE Eurasia Conference on IOT, Communication and Engineering (ECICE)	2020/10/23	105	20	85	Technical
8	2nd International Conference on Design with Intelligence and Humanity 2020 (ICDIH 2020)	2020/11/18	75	10	65	Professional
9	2nd International Conference on Architecture, Construction, Environment and Hydraulics 2020	2020/12/25	50	8	42	Technical
SMC28						
1	AIoT Data Technology	2020/3/20	38	3	35	Technical
2	Thinking of Intelligent Display for Vehicle	2020/3/30	51	6	45	Professional

3	AI on Service System Technology	2020/5/8	51	5	46	Professional
4	Design and realization of blind guide device	2020/6/22	45	5	40	Professional
5	Smart Technology	2020/9/28	50	5	45	Professional
SP01						
1	Industrial Lightning Talks co-organized with TAAI2020	2020/12/4	32	8	24	Technical
2	Panel Discussion on Digital Innovation and AR/VR/XR Technology	2020/12/11	15	6	9	Technical
SSC37						
1	DL Talk: Dr. Nishimura Kazuko	2020/10/22	19	10	9	Technical
2	DL Talk: Prof. Dejan Markovic	2020/11/11	14	12	2	Technical
3	DL Talk: Prof. Dejan Markovic	2020/11/11	14	12	2	Technical
VT06						
1	Talk: Start Thinking About 6G	2020/12/3	105	5	100	Technical
2	Talk: How NR based sidelink expands 5G C V2X to support new advanced use cases	2020/12/25	65	5	60	Technical
WOMEN IN ENGINEERING						
1	Market Expansion Lecturer: Marketing Strategy Formulation of Technology Innovation	2020/10/21	27	5	22	Technical
2	Market Expansion Lecture: From the market expansion strategy to see the innovative design and commercialization of medical equipment	2020/11/18	30	7	23	Technical
3	Market Expansion Lecture: Innovative Design and Marketing Strategy of Medical Equipment	2020/12/2	24	5	19	Technical
4	Market Expansion Lecture: Strategic Planning and Operation Skills for Global Market Extension	2020/12/9	29	6	23	Technical
5	Market Expansion Lecture: B2B International Market Business Development Strategy-Preparation, Development, Expansion and Operation	2020/12/23	24	6	18	Technical
6	Market Expansion Lecture: Marketing and Business Development	2020/12/30	31	7	24	Technical
YOUNG PROFESSIONALS						
1	2020 Innovation And Startup Competition For Intelligent Life Workshop	2020/9/30	55	34	21	Professional
2	Technical Talk by Prof. Wei-Fen Lin	2020/10/3	35	5	30	Technical

3	Administrative Meeting	2020/10/22	4	4	0	Administrative
4	Challenges and opportunities for Storage class memory	2020/11/7	39	4	35	Technical

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

Chapter Name	Administrative	Nontechnical	Technical	Professional	Sub-Total
Tainan Section	10			1	11
AP03			7		7
BT02			12		12
C16			3		3
CAS04	1		9		10
CIS11			7		7
COM19			2		2
ED15			2	3	5
EMB18	1		4		5
IT12			5		5
MTT17			3	1	4
NANO42			6		6
SEN39			4	5	9
SMC28			2	3	5
SP01			2		2
SSC37			3		3
VT06			2		2
Women in Engineering			6		6
Young Professionals	1		2	2	5
Total	13	0	81	15	109

B.3 Professional and Continuing Education Activities

In the year of 2020, Tainan Section held 1 annual meeting, 9 administrative meetings, and 1 Professional workshop. Further, Tainan Section provided supports to our affiliated chapters in organizing their professional related activities. In total, there were 81 technical activities and 15 Professional workshops held by our chapters in the year of 2020

Professional and Continuing Education Activities held in 2020 are listed in Summary of Chapter activities.

B.4 Students Activities

- Total number of Student Branches in the Section
There are two Student Branches in Tainan Section:
 - **National Cheng Kung University Student Branch (est. 2005)**
 - **National Sun Yat-sen University Student Branch (est. 2006)**
- Number of Student Branches formed in the current year
N/A
- Section level student activities (student congress, paper and other contests, awards etc)
Tainan Section grants annual awards to encourage and recognize our members for their achievements in research. One award is dedicated specifically to our student member:
 - **Best Master Thesis Award**
In the year of 2020, graduated student members, Yong-Ting Ni and Bo-Ying Huang, were awarded in the 2020 IEEE Tainan Section Annual Meeting.
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
Due to the COVID-19 pandemic restriction, no in person activities was hold.
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
Due to the COVID-19 pandemic restriction, no in person activities was hold.

B.5 Affinity Group Activities

- Young Professional (YP)

YOUNG PROFESSIONALS					
2020 Innovation And Startup Competition For Intelligent Life Workshop	2020/9/30	55	34	21	Professional
Technical Talk by Prof. Wei-Fen Lin	2020/10/3	35	5	30	Technical
Administrative Meeting	2020/10/22	4	4	0	Administrative
Challenges and opportunities for Storage class memory	2020/11/7	39	4	35	Technical

- Women In Engineering (WIE)

WOMEN IN ENGINEERING					
Market Expansion Lecturer: Marketing Strategy Formulation of Technology Innovation	2020/10/21	27	5	22	Technical
Market Expansion Lecture: From the market expansion strategy to see the innovative design and commercialization of medical equipment	2020/11/18	30	7	23	Technical
Market Expansion Lecture: Innovative Design and Marketing Strategy of Medical Equipment	2020/12/2	24	5	19	Technical
Market Expansion Lecture: Strategic Planning and Operation Skills for Global Market Extension	2020/12/9	29	6	23	Technical
Market Expansion Lecture: B2B International Market Business Development Strategy-Preparation, Development, Expansion and Operation	2020/12/23	24	6	18	Technical
Market Expansion Lecture: Marketing and Business Development	2020/12/30	31	7	24	Technical

- Life Member (LM)
N/A

B.6 Awards & Recognition Activities

- Award constituted by the Section
2020 was the 8th IEEE Tainan Section Annual Awards which consists of 8 different awards. Following winners were selected from 24 nominees after thorough review by 1 Awards Chair and 9 reviewers.
Best Master Thesis Award – Yong-Ting Ni and Bo-Ying Huang
Best Ph.D. Thesis Award – Wei-Che Chien and Yi-Wei Huang
Best Young Professional Member Award – Yuan-Pin Lin, Yen-Chen Liu, Yen-Ming Chen and Kun-Chih Chen
Outstanding Technical Achievement Award – Chun-I Fan and Hung-Yu Kao
Best Service Award – Jung-Chieh Chen
IEEE Tainan Section Macronix Award – Tong-Yu Hsieh
IEEE Tainan Section Himax Award – Pei-Yin Chen

IEEE Tainan Section Delta Award – Hong-Tzer Yang

- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
 - **2020 Region 10 Best Membership Growth Medium Section Award**

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

- Newsletter (name and number of issues in the year)
N/A
- Home Page of the Section (give the URL and how often it is updated)
Home Page of the section : <http://ewh.ieee.org/r10/tainan/>, and it is updated at least monthly.
- Other means of contacts with Section members including social media
The mostly used means of contacts with our affiliated chapters or members are email and phone. Information about IEEE, conferences, or activities held by our chapters are announced via emails.

B.8 Industry Relations

- Membership growth and retention
In order to promote the membership growth, we opened all the activities held by the section or chapters to industrial members participants under the consideration of letting more people know IEEE by providing information on new technologies in every specialized research area.
- Activities for/with industrial members
Activities held in 2020 are listed in Summary of Chapter activities.

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
Cooperating with the Academia-Industry for Southern Taiwan Science Park and the Department of Electrical Engineering, NCKU, we held the activities to provide information on experience sharing in every specialized research area.
- SIGHT Activities
In 2020, “IEEE Life Science Workshop-Tainan” was held on December 19, 2020 and resulted in a very successful activity with around 694 attendances.

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)”
Due to the COVID-19 pandemic restriction, no in person activities was hold.

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
 - 2020 Award Application & Annual Membership Meeting
 - Regular meeting
 - Meeting of Director & Supervisor
- Funding secured from the IEEE and external sources including sponsorships
 - Bonus from the IEEE
 - Sponsor from conference activities

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

- Nature of relationship and details of any formal agreement signed
Cooperating with the Department of Electrical Engineering, NCKU, we aimed to design our section operation procedure in being seamless and without any idling period in between two section chair's transfer. Further, the section provided banking and accounting supports to the conferences held by our chapters and members.
- Details of joint activities
With the help of NCKU, the activities can be promoted to more students, technicians, and industrial in need, and we can provide information on new technologies in every specialized research area.
- Benefit to IEEE members (for example discounts, access to technical information etc.)
Recruiting new student member is one of the main focus of Tainan Section. We provided subsidies for the student member first year with half membership fee and supported selected student in attending international conference.
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)
NCKU provide the venue facilities to hold activities, and provide accounting supports to the conferences held by our chapters and members

C3. Collaboration with other IEEE Sections

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

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

- Support extended for organising technical, educational and professional activities
The section provided banking and accounting supports to the conferences held by our chapters and members.
- Joint activities for membership development
 - 2020 Award Application & Annual Membership Meeting
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section
We provide administrative services to assist the new chapter to complete the application to extend our section into a full section.

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

- The members of Tainan section are encouraged to provide their research results and outcomes to be revealed on the section website. The visibility increasing will value up the research effort of the members.
- Collect the related business information and set-up a contact window for the transferring of the research result to practical products

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

Due to the COVID-19 pandemic restriction, the memberships can not join the activities from the session in person, lead to reduce a lot of activities. Therefore, the section use the video software to hold activities.

PART D - GOALS AND PLANS

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

In the year of 2021, IEEE Tainan Section will further promote globalization and will continue

- Basic assistance to members of Tainan Section in membership development.
- Dissemination of knowledge in the broader fields of electrical and electronics engineering through holding of technical talks, seminars, conferences, symposia, workshops, tutorials, etc.
- Assistance to IEEE members in developing chapters and organizing various activities.
- Support to Student Branches.

D.2 Goals and Future Plans

In the year of 2021, IEEE Tainan Section will further promote

- To encourage the establishment of new society chapters.
- To provide assistance to members of the Tainan Section in their IEEE career.
- To encourage and assist members participating in IEEE activities and award applications.
- To provide support to Student Branches.
- Dissemination of knowledge in the broader fields of Electrical and Electronics Engineering through organizing of technical talk, seminars, conferences, symposiums, workshops, tutorials, etc.
- To activate the connections and cooperations with the industry.

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

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

- The members of Tainan section are encouraged to provide their research results and outcomes to be revealed on the section website. The visibility increasing will value up the research effort of the members.
- The chapters of Tainan section are invited to provide technical articles about the research highlight in its field. The increase the opportunities of cross field cooperation project.

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

Industrial participation scheme is under construction. The industrial can reach the state-of-art technologies. Industrial sponsorship and professional service will enhance the financial stability and improve the incoming growth.