**IEEE Tainan Section**

**PART A - SECTION SUMMARY**

**A.1. Executive Summary**

**A.1.1. Section Executive Committee Member List**

## Chair: Kuo-Sheng Cheng, kscheng@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): Jiann-Fuh Chen, chenjf@mail.ncku.edu.tw

## Secretary: Chin-Lung Yang, cyang@mail.ncku.edu.tw

## Treasurer: Ya-Hsin Hsueh, hsuehyh@yuntech.edu.tw

## Co-Treasurer: Grace Cheng, em61209@email.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

## Industrial Activities (PR): Tai-Ping Wang, taiping.wang@gmail.com

## Newsletter Editor: Che-Wei Lin, lincw@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

**A.1.2. Section Highlights**

In the year of 2017, Tainan Section held 1 annual meeting, 4 administrative meetings, and 2 technical activities. Further, Tainan Section provided supports to our affiliated chapters in organizing their professional related activities. In total, there were 88 technical activities held by our chapters in the year of 2017

**A.1.3. Major Events**

In the year of 2017, Tainan Section kept putting high efforts in institutionalization of our section administrative and also financial operation process with anticipation of sustainability. Cooperating with the Center of Industrial Elite Training and Convention Management, NCKU, we aimed to design our section operation procedure in being seamless and without any idling period in between two section chair’s transfer. A new chapter was found in Tainan Section, the Sensor Council Chapter Tainan Chapter. 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. Five keynote speakers were invited to six technical activity distinguished lectures:

1. Yann LeCun，

2017/06/29-2017/07/01，Learning and the Path to AI

1. Geoffrey Ye Li，

2017/01/21-2017/01/23，LTE on Unlicensed Band

1. Fumiyuki Adachi，

2017/01/21-2017/01/23，Wireless Challenges for 5G Mobile Broadband Communications

1. Akinwande Deji，

2017/04/29-2017/05/01，Si and Graphene/2D Hybrid Nanotechnology: Progress and Prospects

1. Nai-Chang Yeh，

2017/04/27，A perspective of recent advances in graphene-based research，

1. Hei Wong，

2017/04/27，On the Lanthanum-based Subnanometer EOT Gate Dielectric Films

**A.1.4. Awards**

2017 was the seventh IEEE Tainan Section Annual Awards which consists of 8 different awards. Following winners were selected from 38 nominees after thorough review by 3 Awards Chairs and 6 reviewers.

**Best Master Thesis Award -** Nai-Chen Chen, Yi-Ting Peng and Kaiserlaw

**Best Ph.D. Thesis Award -** Chien-Hsun Chu and Hugo Francisco Cruz Garces

**Best GOLD Member Award -** Chin-Feng Lai, Cheng-I Chen and Chao-Yu Chen

**Outstanding Technical Achievement Award -** Chia-Hung Yeh, Kuen-Jong Lee and Saou-Wen Su

**Best Service Award -** No award given

**IEEE Tainan Section Macronix Award -** Chun‐Wei Hsu

**IEEE Tainan Section Himax Award -** Mark Po-Hung Lin

**IEEE Tainan Section Delta Award -** Yuan-Kang Wu and Shyh-Leh Chen

**A.2. Financial Report**

Tainan Section supported all programs and activities at both the section and chapter levels in 2017. To encourage and promote student activities, Tainan Section provided budget for supporting Conferences. In 2017, the income was TWD 687,070 and the expense was TWD 736,900. Thus the final balance is TWD 3,126,325 as of December 31, 2017.

**PART B - ORGANIZATIONAL ACTIVITIES**

**B.1. Membership Development Activities**

**B.1.1. Total number of active members in the past 3 years:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade** | 2015 | 2016 | % Change | **2017** | **% Change** |
| Life Fellow | 2 | 2 | 0.00% | 3 | 50.00% |
| Fellow | 14 | 16 | 14.28% | 16 | 0.00% |
| Life Member | 0　 | 1 | 100.00% | 1 | 0.00% |
| Senior Member | 104 | 112 | 7.69% | 116 | 3.57% |
| Member | 520 | 531 | 2.11% | 522 | -1.69% |
| Associate Member | 13 | 12 | -7.69% | 19 | 58.33% |
| Affiliate | 27 | 20 | - | 17 | -15.00% |
| Graduate/Student | 190 | 173 | -8.94% | 174 | 0.58% |
| **TOTAL** | 870 | 867 | -3.44% | 868 | 0.12% |

**B.1.2. 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 2017, we had 2,554 members and 9,551 nonmembers who participated in Tainan Section’s activities.

**B.2. Chapter Activities**

**B.2.1. Total number of Chapters and Affinity Groups 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 / Ting-Wei Kang
2. Broadcast Technology Society Tainan Chapter / Chih-Peng Li
3. Computer Society Tainan Chapter / Pao-Ann Hsiung
4. Circuits and Systems Society Tainan Chapter / Chia-Ling Wei
5. Computational Intelligence Society Tainan Chapter / Hung-Yu Kao
6. Communications Society Tainan Chapter / Wern-Ho Sheen
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 / Chin-Lung Yang
12. Nanotechnology Council Tainan Chapter /Yu-Cheng Lin
13. Systems, Man, Cybernetics Tainan Chapter / Shyh-Chour Huang
14. Signal Processing Society Tainan Chapter / Chia-Hung Yeh
15. Solid-State Circuit Society Tainan Chapter / Tsung-Heng Tsai
16. Vehicular Technology Society Tainan Chapter / Meng-Hsun Tsai
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 / Chi-Ray Huang
20. National Sun Yat-sen University Student Branch / Bin-Han Liu

**B.2.2. Chapter Activities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Chapter Name** | **Administrative** | **Nontechnical** | **Technical** | **Professional** | **Sub-Total** |
| Tainan Section | 5 |  | 2 |  | 7 |
| AP03 |  |  | 2 |  | 2 |
| BT02 |  |  | 7 |  | 7 |
| C16 |  |  | 6 |  | 6 |
| CAS04 |  | 2 | 14 | 1 | 17 |
| CIS11 |  |  | 2 |  | 2 |
| COM19 |  |  | 5 |  | 5 |
| ED15 |  |  | 2 | 2 | 4 |
| EMB18 |  |  | 4 |  | 4 |
| IT21 |  |  | 2 |  | 2 |
| MTT17 |  | 1 | 5 | 1 | 7 |
| NANO42 |  |  | 2 |  | 2 |
| SEN39 |  |  | 2 |  | 2 |
| SMC28 |  |  | 3 | 12 | 15 |
| SP01 |  | 1 | 9 |  | 10 |
| SSC37 |  |  | 2 |  | 2 |
| VT06 |  |  | 13 |  | 13 |
| Women in Engineering |  |  | 4 |  | 4 |
| Young Professionals | 1 |  | 2 | 4 | 7 |
| **Total** | **6** | **4** | **88** | **20** | **118** |

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| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Meeting Title** | **Meeting Date** | **Total** | **Member** | **Non-****Member** | **Event****Category** |
| **Section** |
| 1　 | Regular meeting | 2017/3/17 | 15 | 12 | 3 | Administrative |
| 2　 | AI in Aspiration | 2017/7/1 | 65 | 50 | 15 | Technical |
| 3　 | Regular meeting | 2017/7/14 | 17 | 13 | 4 | Administrative |
| 4　 | Advice I Would Give My Younger Self | 2017/7/18 | 100 | 80 | 20 | Technical |
| 5　 | Regular meeting | 2017/10/20 | 16 | 12 | 4 | Administrative |
| 6　 | Annual meeting | 2017/11/17 | 102 | 98 | 4 | Administrative |
| 7　 | Regular meeting | 2017/11/17 | 15 | 11 | 4 | Administrative |
| **AP03** |
| 1　 | 2017 Wireless and RF Measurement Workshop | 2017/8/31 | 90 | 10 | 80 | Technical |
| 2　 | 2017 IAET Summer Seminar | 2017/9/10 | 140 | 20 | 120 | Technical |
| **BT02** |
| 1　 | Invited Speech | 2017/3/28 | 155 | 25 | 130 | Technical |
| 2　 | Invited Speech | 2017/8/22 | 450 | 200 | 250 | Technical |
| 3　 | Financial Technology Workshop | 2017/11/3 | 40 | 10 | 30 | Technical |
| 4　 | 2017 IEEE Information Theory Workshop | 2017/11/5 | 450 | 200 | 250 | Technical |
| 5　 | Invited Speech | 2017/11/14 | 150 | 20 | 130 | Technical |
| 6　 | Invited Speech | 2017/12/5 | 155 | 20 | 135 | Technical |
| 7 | Invited Speech | 2017/12/12 | 150 | 20 | 130 | Technical |
| **C16** |
| 1　 | Magic of Error-Correcting Codes | 2017/3/15 | 35 | 2 | 33 | Technical |
| 2　 | LTE - A Spectral Resource Management | 2017/3/15 | 32 | 2 | 30 | Technical |
| 3　 | Introduction to VLSI Design | 2017/3/15 | 32 | 2 | 30 | Technical |
| 4　 | Application of Fuzzy Labeled Language to the Real World | 2017/3/27 | 32 | 2 | 30 | Technical |
| 5　 | Multimedia Big Data Analysis in the Artificial Intelligence Era | 2017/4/12 | 37 | 2 | 35 | Technical |
| 6 | Performance Evaluation of Internet-of-Things Platform | 2017/4/19 | 37 | 2 | 35 | Technical |

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| **CAS04** |
| 1　 | Technical Talk: Automated System-Level Co-design: Are We Finally Ready? | 2017/3/22 | 38 | 8 | 30 | Technical |
| 2　 | A Designer's Career Path in A Foundry Company | 2017/4/6 | 37 | 8 | 29 | Professional |
| 3　 | Technical Talk: Power Quality Issues & Active PQ Compensators: Studies, Topologies and Control | 2017/6/9 | 28 | 6 | 22 | Technical |
| 4　 | Technical Talk: Synchronization and Frustration in Coupled Oscillatory Circuits | 2017/7/27 | 43 | 13 | 30 | Technical |
| 5　 | Technical Talk: CMOS Microelectronics for DNA detection using Ion-Sensitive Field Effect Transistors | 2017/8/1 | 22 | 9 | 13 | Technical |
| 6　 | IEEE CASS Annual Member Meeting (Taiwan) | 2017/8/2 | 28 | 28 | 0 | Nontechnical |
| 7　 | [Technical Tutorial] Neuromorphic Computing & Deep Learning - Algorithm, Software and System | 2017/8/14 | 43 | 12 | 31 | Technical |
| 8　 | [Technical Tutorial] Neuromorphic Computing & Deep Learning -Technology, Hardware and Implement | 2017/8/14 | 39 | 11 | 28 | Technical |
| 9　 | [Co-organized Conference] 2017 Taiwan and Japan Conference on Circuits and Systems  | 2017/8/21 | 116 | 59 | 57 | Technical |
| 10　 | [Technical Talk] Perovskite Solar Cells and Lasers with High Stability and Performance | 2017/8/30 | 21 | 9 | 12 | Technical |
| 　11 |  2017-2018 CASS Student Design Competition at Tainan Chapter- The 1st Phase  | 2017/10/24 | 10 | 5 | 5 | Technical |
| 　12 | CASS Annual Student Outreach (Tainan Chapter) | 2017/11/15 | 54 | 11 | 43 | Nontechnical |
| 13 | [Technical Talk] Energizing and Powering Microsystems | 2017/11/16 | 192 | 12 | 180 | Technical |
| 14 | [Short Course] On-Chip Bias Currents  | 2017/11/20 | 54 | 10 | 44 | Technical |
| 15 | [Short Course] Voltage References | 2017/11/21 | 40 | 7 | 33 | Technical |
| 16 | [Technical Talk] Circuits and Systems to Treat Refractory Epilepsy: Localization, Detection, and Prediction | 2017/11/23 | 60 | 10 | 50 | Technical |
| 17 | [Technical Talk] "Futuristic" Memory Projection- An Architect's View | 2017/12/14 | 80 | 15 | 65 | Technical |
| **CIS11** |
| 1 | FAIR Director Prof. Yann LeCun Visit Taiwan | 2017/6/29 | 980 | 140 | 840 | Technical |
| 2　 | Invited talk: AI in Aspiration | 2017/7/1 | 170 | 20 | 150 | Technical |
| **COM19** |
| 1　 | 2017 National Symposium on Telecommunication & 2017 Spring Workshop on Information Theory and Communications | 2017/1/21 | 500 | 150 | 350 | Technical |
| 2　 | Invited Speech: Introduction of Advanced Driver Assistance Systems | 2017/3/10 | 158 | 31 | 127 | Technical |
| 3　 | Invited Speech :From Hype to Reality: 5G We Learned at MWC 2017 | 2017/5/5 | 161 | 26 | 135 | Technical |
| 4　 | Invited Speech: To Cope with the Impact of Next Industrial Revolution | 2017/6/2 | 189 | 41 | 148 | Technical |
| 5 | 2017 IEEE Taiwan/Hong Kong Joint Fall Workshop on Information Theory and Communications | 2017/8/17 | 238 | 70 | 168 | Technical |

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| **ED15** |
| 1　 | EDS Mini Colloquium of Emerging Materials and Technology for Advanced Nano Device 2017 | 2017/4/27 | 242 | 22 | 220 | Technical |
| 2　 | Symposium on Device Technology 2017  | 2017/4/29 | 270 | 20 | 250 | Professional |
| 3 | DL talk for Ultra-Low Power Design and RF Circuit Reliability | 2017/8/30 | 50 | 15 | 35 | Technical |
| 4 | Nanostructured Indium Tin Oxides and other Transparent Conducting Oxides: Characteristics and Applications in the THz Frequency Range | 2017/9/29 | 92 | 12 | 80 | Professional |
| **EMB18** |
| 1 | Invited Speech | 2017/6/13 | 23 | 5 | 18 | Technical |
| 2 | Invited Speech | 2017/10/5 | 101 | 6 | 95 | Technical |
| 3 | Invited Speech | 2017/12/21 | 33 | 3 | 30 | Technical |
| 4 | Workshop on Nuclear Medicine | 2017/12/22 | 21 | 5 | 16 | Technical |
| **IT21** |
| 1　 | Invited Speech | 2017/5/17 | 47 | 4 | 43 | Technical |
| 2　 | Invited Speech | 2017/11/8 | 42 | 3 | 39 | Technical |
| **MTT17** |
| 1　 | Electromagnetics Workshop-A Bridge to the Future | 2017/1/18 | 160 | 60 | 100 | Technical |
| 2　 | Invited Talk + Member Meeting | 2017/2/24 | 130 | 50 | 80 | Technical |
| 3 | Invited Talk | 2017/4/19 | 70 | 10 | 60 | Professional |
| 4 | Electromagnetics Workshop –Taiwan EM Startup Opportunity Workshop | 2017/6/22 | 150 | 50 | 100 | Technical |
| 5 | Invite Talk –System Reform of Higher Education: The Vertically Integrated Projects (VIP) Program and VIP Consortium | 2017/11/9 | 80 | 10 | 70 | Technical |
| 6 | Student Outreaching | 2017/11/11 | 40 | 10 | 30 | Nontechnical |
| 7 | Invite Talk –Miniature Devices for Smart Health Management | 2017/11/21 | 95 | 15 | 80 | Technical |
| **NANO42** |
| 1　 | Introduction to two frameworks for enhancing metaheuristics | 2017/4/13 | 100 | 10 | 90 | Technical |
| 2　 | Innovation of Medical Device | 2017/10/6 | 89 | 9 | 80 | Technical |
| **SEN39** |
| 1 | 2017 IEEE International Conference on Applied System Innovation | 2017/5/13 | 637 | 148 | 489 | Technical |
| 2 | 2017 IEEE International Conference on Information, Communication and Engineering | 2017/11/17 | 231 | 31 | 200 | Technical |
| **SMC28** |
| 1　 | Intelligent data mining | 2017/3/9 | 26 | 1 | 25 | Professional |
| 2　 | Advanced Machine Learning Techniques | 2017/3/15 | 22 | 1 | 21 | Professional |
| 3 | Big Data in Practice - Smart and dynamic manufacturing for key components of motor engines in Kymco. | 2017/3/29 | 19 | 1 | 18 | Technical |
| 4 | Intelligent adaptive formation control of networked uncertain wheeled mobile multirobots | 2017/5/5 | 82 | 2 | 80 | Professional |
| 5 | Evolutionary computation for job scheduling optimization of chip mounter machines | 2017/5/11 | 21 | 1 | 20 | Professional |
| 6 | Wisdom machine design and manufacture of digital control | 2017/5/25 | 16 | 1 | 15 | Professional |
| 7 | Central University robot laboratory results introduced | 2017/5/26 | 82 | 2 | 80 | Professional |
| 8 | Manufacturing Information Science | 2017/6/1 | 19 | 1 | 18 | Professional |
| 9 | Model Prediction Optimization Design of Wisdom Power Network Distribution Management | 2017/6/9 | 51 | 1 | 50 | Professional |
| 10 | Developments and Applications of Fuzzy Cerebellar Model Neural Networks | 2017/9/29 | 82 | 2 | 80 | Professional |
| 11 | How to Develop Medical Computer Aided Diagnosis and Prognosis System Combined with Artificial Intelligence Technology | 2017/10/5 | 77 | 1 | 76 | Professional |
| 12 | Research Ethics | 2017/10/6 | 76 | 1 | 75 | Technical |
| 13 | AI in Smart Machine / Industry 4.0 / The Development and Application of Smart Manufacturing | 2017/10/20 | 87 | 2 | 85 | Professional |
| 14 | Medical information | 2017/10/20 | 73 | 1 | 72 | Professional |
| 15 | Create a neural network by yourself | 2017/10/31 | 54 | 1 | 53 | Technical |
| **SP01** |
| 1　 | Invited Speech: Deep Learning Networks – Architectural Evolution and Theoretical Foundation | 2017/2/21 | 22 | 10 | 12 | Technical |
| 2　 | Invited Speech: Deep Learning Networks – Architectural Evolution and Theoretical Foundation | 2017/2/22 | 45 | 15 | 30 | Technical |
| 3　 | Invited Speech: Deep Learning Networks – Architectural Evolution and Theoretical Foundation | 2017/2/22 | 54 | 20 | 34 | Technical |
| 4　 | Invited Speech: Deep Learning Networks – Architectural Evolution and Theoretical Foundation | 2017/2/23 | 60 | 20 | 40 | Technical |
| 5　 | Invited Speech: Deep Learning Networks – Architectural Evolution and Theoretical Foundation | 2017/2/23 | 80 | 30 | 50 | Technical |
| 6 | National Smart Electronic Design Competition  | 2017/3/25 | 569 | 12 | 557 | Nontechnical |
| 7 | Invited Speech: Modeling Human Visual Attention | 2017/4/14 | 20 | 10 | 10 | Technical |
| 8 | Invited Speech: Deep Learning Networks – Architectural Evolution and Theoretical Foundation | 2017/5/19 | 65 | 30 | 35 | Technical |
| 9 | Invited Speech: A Dimension Reduction Framework for Hyper Spectral Image Classification Using Fuzzy and Kernel NFLE Transformation | 2017/6/29 | 25 | 10 | 15 | Technical |
| 10 | Workshop on Mobile Computing | 2017/8/27 | 119 | 28 | 91 | Technical |

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| **SSC37** |
| 1　 | Technical Talk | 2017/3/15 | 25 | 15 | 10 | Technical |
| 2　 | DL Talk | 2017/8/1 | 27 | 25 | 2 | Technical |
| **VT06** |
| 1　 | LTE on Unlicensed Band | 2017/1/19 | 25 | 5 | 20 | Technical |
| 2　 | LTE on Unlicensed Band | 2017/1/19 | 25 | 5 | 20 | Technical |
| 3　 | Simulation for Networking | 2017/2/10 | 70 | 10 | 60 | Technical |
| 4　 | Trend of Smart Clothing | 2017/4/21 | 90 | 10 | 80 | Technical |
| 5　 | Container-based NFV for IoT Applications | 2017/6/8 | 90 | 10 | 80 | Technical |
| 6　 | Use cases and applications based on SDN/NFV | 2017/6/8 | 90 | 10 | 80 | Technical |
| 7　 | White-Box in Telcom | 2017/6/8 | 90 | 10 | 80 | Technical |
| 8　 | CORD/VNF network architecture and use cases | 2017/6/8 | 90 | 10 | 80 | Technical |
| 9 | Container and Cloud Native Computing | 2017/6/8 | 90 | 10 | 80 | Technical |
| 10 | Software-defined Networking (SDN)/Network Function Virtualization (NFV) | 2017/7/11 | 90 | 10 | 80 | Technical |
| 11 | An Introduction to Kubernetes and CNI | 2017/10/19 | 100 | 10 | 90 | Technical |
| 12 | Data Science and AI Applications in Pixnet | 2017/11/10 | 100 | 10 | 90 | Technical |
| 13 | The Mission of Open Networking Foundation | 2017/11/16 | 100 | 10 | 90 | Technical |
| **WOMEN IN ENGINEERING** |
| 1　 | Digital Finance / Financial Technology Introduction | 2017/3/10 | 102 | 12 | 90 | Technical |
| 2　 | High Frequency Trading and Data Oriented Option Trading Strategy Construction | 2017/4/7 | 103 | 15 | 88 | Technical |
| 3　 | Innovation Technology and Challenge in East Africa | 2017/4/18 | 68 | 6 | 62 | Technical |
| 4　 | Interactive Object Recognition and Search over Mobile Video  | 2017/8/9 | 152 | 32 | 120 | Technical |
| **YOUNG PROFESSIONALS** |
| 1　 | Women in Science | 2017/3/4 | 33 | 5 | 28 | Professional |
| 2 | Entrepreneurship Forum / 678 Innovation Forum | 2017/3/16 | 100 | 30 | 70 | Professional |
| 3 | Entrepreneurship Forum - No Borders Innovation and Entrepreneurship Forum | 2017/5/18 | 95 | 23 | 72 | Professional |
| 4 | Administrative Meeting | 2017/8/18 | 5 | 5 | 0 | Administrative |
| 5 | From Machine Learning to Computer-Aided Design: how machine learning algorithms help to solve CAD problems. | 2017/10/20 | 30 | 10 | 20 | Technical |
| 6 | The trend of Storage System | 2017/10/20 | 30 | 10 | 20 | Technical |
| 7 | IEEE Tainan YP Annual Meeting | 2017/11/20 | 120 | 20 | 100 | Professional |

**B.3. Professional and Continuing Education Activities**

N/A

**B.4. Students Activities**

**B.4.1 Total number of Student branches in the Section**

There two Student Branches in Tainan Section:

* National Cheng Kung University Student Branch (est. 2005)
* National Sun Yat-sen University Student Branch (est. 2006)

Student activities held in 2017 for student members are listed in B.4.3.

**B.4.2 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 awards are dedicated specifically to our student member:

* Best Master Thesis Award

In the year of 2017, graduated student member, Kaiserlaw, was awarded in the 2017 IEEE Tainan Section Annual Meeting.

**B.4.3 Summary of Student branch activities student branch wise with attachment table / information**

1. National Cheng Kung University Student Branch

N/A

1. National Sun Yat-sen University Student Branch

N/A

**B.5 Communication Activities**

Home Page of the section : http://ewh.ieee.org/r10/tainan/

Other means of contacts with section members: The mostly used means of contacts with our affiliated chapters or members are email and phone. Information about IEEE, conferences, or activates held by our chapters are announced via emails.

**PART C - GOALS AND PLANS**

**C.1 Continuation of Project/Activity in Progress and Their Implementation Plans**

**C.2 Goals and Future Plans**

In the year of 2018, IEEE Tainan Section will further promote globalization and will continue

* 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.

The following activities and plans will be initiated by our chapters in 2018.

* Antennas and Propagation Society Tainan Chapter

(1) 2018 Annual Meeting

(2) 2018 IAET Seminar

(3) Continuing Education Activities

(4) Industrial Relation Activities

* Computer Society Tainan Chapter

(1) More technical activities, especially related to the contemporary topics of interest that are more relevant to all Chapter members.

* Computational Intelligence Society (CIS) Tainan Chapter

(1) Planning to help organize AI Forum 2018

* Communications Society Tainan Chapter

(1) Invited Talk: Prof. Yao-Win Peter Hong(洪樂文), National Chung Cheng University, Chia-Yi, Taiwan

(2) 2018 National Symposium on Telecommunication & 2018 Spring Workshop on Information Theory and Communications, Fullon Hot Spring Resort, Tamsui, Taiwan

* Electron Devices Society Tainan Chapter

(1) IEEE Distinguished Lecturer Program in Tainan/Kaohsiung or south Taiwan

(2) 2018 Symposium on Nano Device Technology. Topic: Nanoelectronic Devices and Technology, Emerging Memory Devices, MEMS Sensors, High-Frequency Technology and Applications, Nano Metrology Technology and Applications. Date/Place: May, 2018, Nano Device laboratory, HsinChu, Taiwan.

(3) 2018 Workshop. Topic: New Material for Nanoelectronic Devices. Date/Place: Sept, 2018, Nano Device laboratory, HsinChu, Taiwan.

* IEEE Young Professionals

(1) Planning to hold 2 technical and one non-technical meeting

(2) Planning to hold Young Professionals 2018 annual meeting

* Nanotechnology Council

(1) Planning to hold councils

(2) Planning to invite presentation

* Signal Processing Society Tainan Chapter

(1) Organize general assembly to promote communications among members.

(2) Invite professors and technical experts to share experiences in the field of deep learning.

(3) Cooperate with other IEEE societies of similar research interest.

(4) Promote international academic exchanges by hosting and co-hosting conferences.

(5) Develop and recruit fresh members by holding events dedicated for students and sponsorship.

(6) Develop industrial relationships through visiting and project-based cooperation.

* Vehicular Technology Society Tainan Chapter

(1) Two Distinguished Lectures.

(2) VTS Tainan Chapter members meeting

(3) Invited talks from domestic/overseas speakers (at least two)

* Women in Engineering

(1) Invited Talk: The experiences of making studying or career plans, at least three female speakers (one from the academia and two from the industrial)

* Sensors Council Chapter

(1) 2018 International Conference On Applied System Innovation (<http://2018.icasi.asia/>)

(2) 2018 International Conference on Innovation, Communication and Engineering to be constructed