PART A - SECTION SUMMARY

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

- Section Executive Committee Member List

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaoqian LI</td>
<td>Chair</td>
<td><a href="mailto:lsq@uestc.edu.cn">lsq@uestc.edu.cn</a></td>
</tr>
<tr>
<td>Pingzhi Fan</td>
<td>Awards &amp; Recognition Committee Chair</td>
<td><a href="mailto:p.fan@ieee.org">p.fan@ieee.org</a></td>
</tr>
<tr>
<td>Dezhong RAO</td>
<td>Educational Activities</td>
<td><a href="mailto:dyao@uestc.edu.cn">dyao@uestc.edu.cn</a></td>
</tr>
<tr>
<td>Qi HUANG</td>
<td>Liaison</td>
<td><a href="mailto:hwong@uestc.edu.cn">hwong@uestc.edu.cn</a></td>
</tr>
<tr>
<td>Jianxiao ZOU</td>
<td>Membership Development</td>
<td><a href="mailto:jxzou@uestc.edu.cn">jxzou@uestc.edu.cn</a></td>
</tr>
<tr>
<td>Qingchun CHEN</td>
<td>Professional Activities</td>
<td><a href="mailto:qingchunchen@foxmail.com">qingchunchen@foxmail.com</a></td>
</tr>
<tr>
<td>Li Li</td>
<td>Professional Activities</td>
<td><a href="mailto:ll5e08@swjtu.edu.cn">ll5e08@swjtu.edu.cn</a></td>
</tr>
<tr>
<td>Gang WU</td>
<td>Secretary</td>
<td><a href="mailto:wugang99@uestc.edu.cn">wugang99@uestc.edu.cn</a></td>
</tr>
<tr>
<td>Zheng MA</td>
<td>Secretary</td>
<td><a href="mailto:zma@swjtu.cn">zma@swjtu.cn</a></td>
</tr>
<tr>
<td>Lei Zhang</td>
<td>Secretary</td>
<td><a href="mailto:leizhang@scu.edu.cn">leizhang@scu.edu.cn</a></td>
</tr>
<tr>
<td>Xinhao XU</td>
<td>Treasurer(due 2018 Dec. 31)</td>
<td><a href="mailto:xuxinhao@uestc.edu.cn">xuxinhao@uestc.edu.cn</a></td>
</tr>
<tr>
<td>Gang Wu</td>
<td>Treasurer (since Jan. 1, 2019)</td>
<td><a href="mailto:wugang99@uestc.edu.cn">wugang99@uestc.edu.cn</a></td>
</tr>
<tr>
<td>Sheng SUN</td>
<td>Student Activities</td>
<td><a href="mailto:sunsheng@ieee.org">sunsheng@ieee.org</a></td>
</tr>
<tr>
<td>Bo ZHAGN</td>
<td>Technical Activities</td>
<td><a href="mailto:zhangbo@uestc.edu.cn">zhangbo@uestc.edu.cn</a></td>
</tr>
<tr>
<td>Fengwu Luo</td>
<td>Newsletter Editor/Webmaster</td>
<td><a href="mailto:fwluo@uestc.edu.cn">fwluo@uestc.edu.cn</a></td>
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- Section Highlights


(From left to right: Prof. Ali H. Sayed, President of IEEE SPS, Prof. Zhiguo Ding and Prof. Pingzhi Fan)
3) IEEE UESTC Student Branch won the Outstanding Student Branch Award in China won July 25-28, at Beijing, China, “IEEE Regional Exemplary Student Branch Award” and “The Darrel Chong Student Activity Award (Gold Award)” on Dec. 2019, which is announced at https://students.ieee.org/awards/results/.

4) With IEEE Chengdu Section as TCS role, 2019 International Conference on Control, Automation and Information Sciences (ICCAIS) was held at UESTC, Chengdu, Oct. 24-27, 2019.

5) Prof. Ying-Chang Liang of UESTC was elected as Fellow of Academia Europaea, who is IEEE Fellow and Editor-In-Chief of IEEE Cognitive Communications and Networking.

6) Chengdu Section receive the gold medal of recognition for achieved their recruitment and retention goals in 2019.

• Major Events (International, National)
  1) International Workshop on Intelligent Communications and Network and Salon for editors of Transactions/Journals of IEEE Communications Society were held on May 25-26, 2019, at UESTC, Chengdu.
  2) With IEEE Chengdu Section as TCS role, 2019 9th International Conference on Fire Science and Fire Protection Engineering (ICFSFPE) was held in Chengdu, China on October 18-20, 2019.
  3) With support of both IEEE Chengdu Section IEEE Comsoc Chengdu Chapter, Intl. Workshop on Advance in Wireless Communications was held on July 8, 2019, at SWJTU and UESTC, respectively. Six professors were invited to give talks on wireless communications and networks.
  4) With IEEE Chengdu Section as TCS role, the 2019 16th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP) was held on Dec 14, 2019, at UESTC, Chengdu.
5) With IEEE Chengdu Section as TCS role, the 2019 4th International Conference on Power and Renewable Energy (ICPRE) was held on Sep. 21, 2019, at Chengdu.
6) With IEEE Chengdu Section as TCS role, 2019 International Conference on Control, Automation and Information Sciences (ICCAIS) was held on 24-Oct-19, at Chengdu,
7) With IEEE Chengdu Section as TCS role, the 2019 IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia) by IEEE Power and Energy Society, hosted by University of Electronic Science and technology and State Grid Sichuan electric power company opened in Chengdu on May 22, 2019.
8) IEEE Chengdu Section supported as TCS for the 2020 IEEE Asia Energy and Electrical Engineering Symposium (AEEES), which is scheduled to begin on Mar 28, 2020.
9) IEEE Chengdu Section supported as TCS for the 2020 3rd International Conference on Artificial Intelligence and Big Data (ICAIBD), which is scheduled to begin on May 28, 2020.

- Major Chapter Activities
  1) IES Chengdu Chapter was established on Nov. 2019, which is founded by Junyong Liu, Professor of Sichuan University.
  2) IEEE PES Chengdu Chapter organized a Chapter Executive Committee meeting on Chengdu, and awarded 2018 IEEE PES Chapter Outstanding Engineer to the Mr. Ping and Prof. Qi Huang.Secretary of IEEE Power & Energy Society, Ms. Jessica Bian, visited Chengdu, and presented a talk entitled “Finding a Balance – BPS Performance And Regulation” at Sichuan University, May 20, 2019.
  3) The Chengdu Section PE Chapter has decided to sponsor 2020 IEEE 2nd Asia Power and Energy Engineering Conference (AEEES).

- Major Student and Affinity Group Activities
  1) Opening ceremony and Preach meeting for 2019 Global IEEE Xtreme Programming was held on May 9, 2019 at UESTC, Chengdu, organized by IEEE Chengdu Student branch at UESTC.
  3) IEEE UESTC Student Branch won the Outstanding Student Branch Award in China won July 25-28, at Beijing, China, “IEEE Regional Exemplary Student Branch Award” and “The Darrel Chong Student Activity Award (Gold Award)” on Dec. 2019, which is announced at https://students.ieee.org/awards/results/.

- Awards
  1) Prof. Pingzhi Fan won 2018 IEEE SP Soc SPL Best Paper Award at ICASSP, 12-17 May, 2019, at Brighton, UK, with the paper entitled “On the performance of non-orthogonal multiple access in 5G systems with randomly deployed users”.
  2) Prof. Pingzhi Fan won IEEE WCSP 10-Year Anniversary Excellent Paper Award (2009-2019) at Xi’an, China, 23-25 October 2019
  3) IEEE UESTC Student Branch won the Outstanding Student Branch Award in China won July 25-28, at Beijing, China.
  5) Huanrui Luo and Ning Yang, of Sichuan University, received best paper award from 2019 IEEE International Conference on Big Data with the paper entitled “Hybrid Deep Embedding for Recommendations with Dynamic Aspect-Level Explanations”.
  6) Ph.D. Student of UESTC, Changkun Liu, won IMS Sixty-Second Presentation (S2P), and 1st place winner of 2019 student design competition on “Four-Channel Switchable/Reconfigurable Filter”, and Tianyi Wang, won 1st place winner of 2019 student design competition on “Adaptive Relay Transceiver” on 2019 IEEE IMS.

**A.2 Financial Report** – (Please follow the format given below)
Summary (as per submitted on NetSuite)

Title: CBRS ANNUAL REPORT FOR IEEE Chengdu Section

For THE CALENDAR YEAR OF: 2019

Account: 117500

Currency: USD

Opening Balance: 37,319.23

Closing Balance: 45,978.59

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Created On: 15–JAN–20

Any other financial activities

No.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
  1498 until Feb. 29, 2020 for all region (R2, R6, R7, R8, R10).
- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
  - By connecting with professors in UESTC, SWJTU, and SCU (majorly three universities in Chengdu), we encourage and develop the student membership by IEEE Chengdu student branches with various events and publicity.
  - By holding more technical international conferences and workshops, the IEEE Chengdu Section receive more interest of undergraduate student and graduate students to join IEEE.
B.2 Chapter Activities

- Total number of Chapters in the Section 13
- Number of Chapters formed in the current year 1
- Number of active Chapters (Chapters who have reported required number of meetings during the year) 10
- Summary of Chapter activities (Chapter wise with attachment table/information)

See https://events.vtools.ieee.org/

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

1) Prof. Dominic K. C. Ho, IEEE Fellow, University of Missouri, was invited to give a talk, “Signal Processing for Eldercare”, Mar. 25, 2019, at UESTC, Chengdu
2) Prof. Ivor Tsang, Arc Future Fellow and Professor of Artificial Intelligence, University of Technology Sydney, visited Sichuan University and presented a talk entitled “Co-teaching: Robust training of deep neural networks with extremely noisy labels”, March 15, 2019
3) Prof. Antonio De Maio, IEEE Fellow, University of Naples Federico II, was invited to give a talk, “Block Sparsity Based Spectrum Sensing for Cognitive Radar”, July 11, 2019, at School of ICE of UESTC, Chengdu.
4) Prof. Yiguang Hong, IEEE Fellow, the Director of Key Lab of Systems and Control, CAS and the Director of the Information Technology Division, National Center for mathematics and Interdisciplinary Sciences, CAS, was invited to give a talk entitled “Distributed computation for linear matrix equations from the optimization viewpoint”, at UESTC, Chengdu, Apr. 22, 2019.
5) Prof. James Edwin Fowler, Jr., IEEE Fellow, Billie J. Ball Professor and Interim Department Head of the Department of Electrical & Computer Engineering at Mississippi State University was invited to give a talk entitled “Low-Rank and Sparse Representations in Signal Processing”, Dec. 16, 2019, at UESTC, Chengdu.
6) Prof. Yakov Krasik (The Max Knoll Chair in Electronics and Opto-Electronics, Dep. of Physics, Technion, Fellow of the American Physical Society, IEEE Senior member, was invited to give a talk entitled “High Power Microwave Research in Plasma laboratory”, Dec. 26, 2019, at UESTC, Chengdu.
7) Prof. Guoqiang Mao, IEEE Fellow, University of Technology Sydney, was invited to give a talk entitled “From Vehicular Networks to IoT for Smart Roads - How a Communication Engineer Can Help Solve Transportation Problems”, March 6, 2019, at UESTC, Chengdu.
8) Prof. Rick S. Blum, IEEE Fellow, Lehigh University, was invited to give a talk entitled “Cyber Attacks on Internet of Things Sensor Systems for Inference”, May 20, 2019, at UESTC, Chengdu.
9) Prof. Haozhong Guo, Fellow of IEEE, OSA, SPIE, National Taiwan Jiaotong University, was invited to give a talk entitled “Recent Progress of GaN based Microled and VCSEL for micro-Display application”, March 11, 2019, at UESTC, Chengdu.

B.4 Students Activities

- Total number of Student Branches in the Section 1
- Number of Student Branches formed in the current year 1, Southwest Jiaotong University student branch.
IEEE UESTC Student Branch won the Outstanding Student Branch Award in China won July 25-28, at Beijing, China, “IEEE Regional Exemplary Student Branch Award” and “The Darrel Chong Student Activity Award (Gold Award)” on Dec. 2019, which is announced at https://students.ieee.org/awards/results/.

- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
  2
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
  1) Organizing for for 2019 Global IEEE Xtreme Programming was held on May 9, 2019 at UESTC, Chengdu, organized by IEEE Chengdu Student branch at UESTC.
  2) Attend many IEEE Conference including IEEE IMS 2019, ICCV 2019, and so on.
    b) Huanrui Luo and Ning Yang, of Sichuan University, received best paper award from 2019 IEEE International Conference on Big Data with the paper entitled “Hybrid Deep Embedding for Recommendations with Dynamic Aspect-Level Explanations”
    c) Ph.D. Student of UESTC, Changkun Liu, won IMS Sixty-Second Presentation (S2P), and 1st place winner of 2019 student design competition on “Four-Channel Switchable/Reconfigurable Filter”, and Tianyi Wang, won 1st place winner of 2019 student design competition on “Adaptive Relay Transceiver” on 2019 IEEE IMS.

B.5 Affinity Group Activities

- Young Professional (YP)
  none
- Women In Engineering (WIE)
  none
- Life Member (LM)
  none

B.6 Awards & Recognition Activities

- Award constituted by the Section
  Planned in February, 2020. However, due to the epidemics of “COVID-2019”, the meeting for awards and ExCom will be held in appropriate time, maybe in middle April 2020.
  Please list all Awards and Recognitions received by the Section, and members in the Section, from R10 and IEEE HQ during the year
  IEEE UESTC Student Branch won the Outstanding Student Branch Award in China won July 25-28, at Beijing, China, “IEEE Regional Exemplary Student Branch Award” and “The Darrel Chong Student Activity Award (Gold Award)” on Dec. 2019, which is announced at https://students.ieee.org/awards/results/.

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

- Newsletter (name and number of issues in the year)
  None/Available
- Home Page of the Section (give the URL and how often it is updated)
  https://r10.ieee.org/chengdu/.
- Other means of contacts with Section members including social media
  None
B.8 Industry Relations
- Membership growth and retention
  No statistical data
- Activities for/with industrial members
  By Chapter’s meeting and events, Chengdu Section held at least 2 meetings with industrial members in communications theory, power electricals, reliability, and MTT society, et. al.

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
  On May 25-26, 2019, International Workshop on Intelligent Communications and Network and Salon for editors of Transactions/Journals of IEEE Communications Society were held at Chengdu. President of IEEE ComSoc, Prof. Kahled. B. Letaif, and other EiCs publicize the role of being IEEE member and benefit by submission to IEEE Transactions/Journals.
- 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
  None
- 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.)

C.3 Collaboration with other IEEE Sections
- Support extended to neighboring Sections
  None
- 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
  None

- Joint activities for membership development
  By collaborating with Sichuan Institute of Electronic,

- 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

None

PART D - GOALS AND PLANS

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

Organizing more high-level technical conferences, and serving as the bridge to all IEEE members in Chengdu. Leveraging more activities including competition and salon for students.

D.2  Goals and Future Plans

Besides publicity for membership development, we will focus on local exchange and international workshop by inviting more IEEE distinguished lectures to give talks. Our goal is to serves our members better and better by more academic activities, including conferences, workshops, seminars, visit exchanges etc.

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

To hold joint events, such as workshop and salons, with local institute and industrial companies, and develop professional and carrier training.


Hold at least 1 Training and courses to maintain the sustainable growth and financial stability.