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>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>
</tr>
</tbody>
</table>

- Section Highlights
  1) Section have new Executive Committee members joined as secretary and treasurer.
  2) IEEE UESTC Student Branch receive 2018 IEEE-UPP Student Branch Award on 2018 IEEE China YP-WIE-SB Congress, June 2018
  3) IEEE PES Chengdu Chapter receive IEEE PES High Performing Chapter Award 2018
5) IEEE Chengdu Section hosted visiting of Director of IEEE Region 10, Professor Kukjin Chun on May 29, 2018.
6) Chengdu Section receive the gold medal of recognition for achieved their recruitment and retention goals in 2018.
7) There are 9 conferences were TCS-ed by IEEE Chengdu Section in 2018. (list see below)

- Major Events (International, National)
  1) 9 Conferences were Technical Co-Sponsored by IEEE Chengdu Section.
     - IEEE 3rd International Conference on Cloud Computing and Big Data Analysis (ICCCBDA), 20 - 22 April 2018 (Chengdu Section, CIS Chapter)
     - International Conference on Artificial Intelligence and Big Data (ICAIBD), May 26, 2018 (Chengdu Section; Sichuan Province Computer Federation)
     - 10th International Conference on Communication Software and Networks (ICCSN), 6 - 9 July 2018 Chengdu Section; Sichuan Institute of Electronics)
     - International Conference on Microwave and Millimeter Wave Technology (ICMMT), 7 - 11 May 2018(Chengdu Section MTT Chapter; Chinese Institute of Electronics Microwave Society; University of Electronic Science Technology of China)
     - International Conference on Electronics Technology (ICET), May 23, 2018(Chengdu Section; Sichuan Institute of Electronics)
     - IEEE 4th International Conference on Computer and Communications (ICCC), 7 - 10 December 2018 (Chengdu Section, CIS Chapter)
     - 15th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWAMTIP), Dec, 14, 2018(Chengdu Section; University of Electronic Science and Technology of China - UESTC)
     - IEEE International Conference on Communication Systems (ICCS), Dec, 19, 2018(Chengdu Section; IEEE Communications Society; Sichuan Institute of Electronics; Singapore Section; Singapore Section COM Chapter; Singapore Section VT Chapter; University of Electronic Science and Technology of China - UESTC)
     - 10th International Conference on Communications, Circuits and Systems (ICCCAS), Dec, 22, 2018(Chengdu Section; Sichuan Institute of Electronics)
  2) Host visiting of Director of IEEE Region 10, Professor Kukjin Chun with his technical talk on May 29, 2018 in UESTC Qingshuihe Campus.
  3) Host two Workshop on Advance in Wireless Communications, total 6 IEEE Fellow attended the workshop and presented keynote talks.
  4) Jointly organized by IEEE Comsoc Chengdu Chapter, The 5th International Workshop on Advances in Information Coding and Wireless Communications (AICWC/2018) was held and more than 30 IEEE members attended the workshop. There were 15 invited talks and two panels were given in the three-day workshop.
5) From March 26-28, 2018, International Conference on Computational Electromagnetics (ICCEM 2018), which was jointly organized by Chengdu AP Chapter and Chengdu EMC Chapter, was held in Chengdu.

- **Major Chapter Activities**
  1) IEEE Power & Energy Society Chengdu Chapter held chapter meeting and will has decided to sponsor 2019 IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia).
  2) 2018 International Conference on Microwave and Millimeter Wave Technology (ICMMT)

- **Major Student and Affinity Group Activities**
  1) IEEE UESTC Student Branch receive 2018 IEEE-UPP Student Branch Award on 2018 IEEE China YP-WIE-SB Congress, June 2018
  2) Chair of IEEE UESTC Student Branch, Ms. Xiwen Zhang, attended IEEE SYWL 2018 at Sydney
  3) IEEE UESTC Student Branch host the SPAA organized by IEEE R10

- **Awards**
  1) Chengdu Section receive the gold medal of recognition for achieved their recruitment and retention goals in 2018.
  2) Ph.D. Student of UESTC, Jingzhi Zhang, receive 2018-2019 IEEE SSCS Predoctoral Achievement Awards
  3) Master student of UESTC, Qi Wang, receive 2018 IEEE WCNC Best Paper Award.
4) Professor Ting Cheng of UESTC received 2018 IEEE INFOCOM Best Paper Awards with the paper entitled “Understanding Ethereum via Graph Analysis”.
5) Ph.D. student, Ms. Huizheng Qian receive IEEE MTT-Society Graduate Fellowship Award.

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

- Summary (as per submitted L50)
- Any other financial activities

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
  1867 members up to Jan. 2019, details refer to table below

<table>
<thead>
<tr>
<th>Region Council</th>
<th>China Council</th>
<th>Section</th>
<th>IEEE Grades</th>
<th>Grade</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>R10</td>
<td></td>
<td>Chengdu</td>
<td>Associate Member</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fellow</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Graduate Student Member</td>
<td>805</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Life Fellow</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>677</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Senior Member</td>
<td>114</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Student Member</td>
<td>229</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Other Grades</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Affiliate</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SA Member</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>合计</td>
<td>1,867</td>
<td></td>
</tr>
</tbody>
</table>

- 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
  12
- Number of Chapters formed in the current year
  One new chapter is formed, namely MAG(Magnetics Society) Chengdu Chapter, which is founded and chaired by Professor Huaihu Zhang of UESTC
- Number of active Chapters (Chapters who have reported required number of meetings during the year)
  9

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

<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Event Category</th>
<th>Organizational Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Chengdu Chapter</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Professional Salon: IEEE PES Orientation and Student Member Recruitment
2018/12/7 19:00  Professional  PE31

### Kick-off & 1st WG meeting of IEEE P2779
2018/1/25 09:00  Technical  PE31

### IEEE PES Chengdu Chapter EXCOM 2018
2018/1/17 15:00  Administrative  PE31

### 3rd WG Meeting of IEEE P2771
2018/11/29 09:00  Technical  PE31

### Second WG Meeting of IEEE P2779
2018/11/22 09:00  Technical  PE31

### International Young Scholar Forum
2018/11/22 09:00  Technical  PE31

### Forum on Energy Interconnection & Smart Energy
2018/9/29 09:00  Technical  PE31

### Global Lecture: Communication Technologies for Energy Networks
2018/7/16 14:30  Technical  PE31

### Seminar on Key Issues of Sichuan Electric Power Spot Market Construction
2018/7/14 09:00  Technical  PE31

### Global Lecture: Resilience Engineering Modeling and Applications into Social Media
2018/7/9 15:00  Technical  PE31

### 2nd WG meeting of IEEE P2426
2018/5/27 09:00  Technical  PE31

### Seminar on Next-generation Smart & Ecological Power System
2018/5/26 15:00  Technical  PE31

### 2nd WG meeting of IEEE P2771
2018/5/17 09:00  Technical  PE31

### Laboratory Open Day
2018/5/13 09:00  Professional  PE31

### Kick-off & First WG Meetings of IEEE P2752 & P2753
2018/6/28 09:00  Technical  PE31

### First WG meeting of a Community Standard Guide for Recognition and Locating of the Faults of Non-contact Transmission Lines
2018/6/27 09:00  Technical  PE31

### AP/EMC Joint Chengdu Chapter

<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Event Category</th>
<th>Organizational Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018 International Workshop on Advanced Phased Arrays and Smart-Skin Sensors Techniques</td>
<td>2018/10/18 09:00</td>
<td>Professional</td>
<td>AP03/EMC27</td>
</tr>
<tr>
<td>Terminal Antenna Design for Future Wireless</td>
<td>2018/7/21 10:00</td>
<td>Technical</td>
<td>AP03/EMC27</td>
</tr>
<tr>
<td>Computational Electromagnetics for Emerging Wireless Technologies</td>
<td>2018/5/10 09:30</td>
<td>Technical</td>
<td>AP03/EMC27</td>
</tr>
<tr>
<td>2018 International Conference on Computational Electromagnetics (ICCEM(ü) 2018)</td>
<td>2018/3/26 09:00</td>
<td>Professional</td>
<td>AP03/EMC27</td>
</tr>
<tr>
<td>2018 International Workshop on Advanced Phased Arrays and Smart-Skin Sensors Techniques</td>
<td>2018/10/18</td>
<td>Professional</td>
<td>AP03/EMC27</td>
</tr>
</tbody>
</table>

### SSC/CAS joint Chengdu Chapter
<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Event Category</th>
<th>Organizational Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talk by Prof. Terry Sin and Prof. Yan Lu</td>
<td>2018/9/13 09:00</td>
<td>Technical</td>
<td>SSC37/CAS04</td>
</tr>
<tr>
<td>SSCS DL Maurits Ortmanns Lecture</td>
<td>2018/11/22 10:00</td>
<td>Technical</td>
<td>SSC37/CAS04</td>
</tr>
</tbody>
</table>

- **RL Chengdu Chapter**

<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Event Category</th>
<th>Organizational Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRel Editorial Board Meeting &amp; IEEE RS Chapter Meeting</td>
<td>2018/6/21 14:00</td>
<td>Professional</td>
<td>Chengdu Section Chapter, RL07</td>
</tr>
<tr>
<td>The 4th International Symposium on System and Software Reliability</td>
<td>2018/6/21 09:00</td>
<td>Professional</td>
<td>Chengdu Section Chapter, RL07</td>
</tr>
<tr>
<td>IEEE Reliability Society China Chapters meeting</td>
<td>2018/6/20 17:00</td>
<td>Professional</td>
<td>Chengdu Section Chapter, RL07</td>
</tr>
</tbody>
</table>

- **MTT Chengdu Chapter**

<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Event Category</th>
<th>Organizational Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waveguide Lumped Circuits</td>
<td>2018/11/28 10:00</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>Fabry-Perot Antenna and Its Reconfiguration</td>
<td>2018/12/19 17:00</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>Advanced antennas for Small Satellites</td>
<td>2018/6/28 15:30</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>Absorptive Frequency Selective Structures</td>
<td>2018/6/28 10:10</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>2018 Annual Conference of CEMLAB of UESTC and Symposium on Time Reversal Electromagnetics</td>
<td>2018/10/20 08:30</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>Making Sense of Hyper-Dimensional Sensors and Signals at the ETRO-VUB Department</td>
<td>2018/5/23 14:30</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>Recent Research of Prof. Lesselier's group on Inverse Scattering and Non-destructive Testing and Evaluation</td>
<td>2018/5/11 09:30</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>Pin-loaded Patch Antennas with Improved Functionalities</td>
<td>2018/5/10 09:00</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>Invited talks from Two MTT Distinguished Lecturers</td>
<td>2018/5/7 14:30</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
<tr>
<td>2018 International Conference on Microwave and Millimeter Wave Technology (ICMMT)</td>
<td>2018/5/7 09:00</td>
<td>Technical</td>
<td>MTT17</td>
</tr>
</tbody>
</table>

- **CIS Chengdu Chapter**

<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Event Category</th>
<th>Organizational Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neural Networks and Medical Intelligence</td>
<td>2018/9/14 08:30</td>
<td>Professional</td>
<td>CIS11</td>
</tr>
<tr>
<td>2018 4th IEEE International Conference on Computer and Communications (ICCCC)</td>
<td>2018/12/8 08:30</td>
<td>Professional</td>
<td>CIS11</td>
</tr>
<tr>
<td>Data Intelligence in Smart City</td>
<td>2018/2/2 10:00</td>
<td>Professional</td>
<td>CIS11</td>
</tr>
<tr>
<td>STATE-OF-THE-ART EVOLUTIONARY ALGORITHMS FOR MANY OBJECTIVE OPTIMIZATION</td>
<td>2018/2/2 09:00</td>
<td>Professional</td>
<td>CIS11</td>
</tr>
</tbody>
</table>
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

- Distinguished lecture program
  Title: Augmented Intelligence in Future Networks
  Speaker: Tony Q.S. Quek
  Time: 2018/12/17/ 10:00-12:00
Venue: Main building B3-704, UESTC Qingshuihe Campus

B.4 Students Activities

- Total number of Student Branches in the Section
  1
- Number of Student Branches formed in the current year
  None
- Section level student activities (student congress, paper and other contests, awards etc)
  1) IEEE UESTC Student Branch receive 2018 IEEE-UPP Student Branch Award on 2018 IEEE China YP-WIE-SB Congress, June 2018
  2) Chair of IEEE UESTC Student Branch, Ms. Xiwen Zhang, attended IEEE SYWL 2018 at Sydney
  3) IEEE UESTC Student Branch host the SPAA organized by IEEE R10

- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
  1
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
  1) IEEE UESTC Student Branch receive 2018 IEEE-UPP Student Branch Award on 2018 IEEE China YP-WIE-SB Congress, June 2018
  2) Chair of IEEE UESTC Student Branch, Ms. Xiwen Zhang, attended IEEE SYWL 2018 at Sydney
  3) IEEE UESTC Student Branch host the SPAA organized by IEEE R10
  4) Ph.D. Student of UESTC, Jingzhi Zhang, receive 2018-2019 IEEE SSCS Predoctoral Achievement Awards
  5) Master student of UESTC, Qi Wang, receive 2018 IEEE WCNC Best Paper Award.
  6) Professor Ting Cheng of UESTC received 2018 IEEE INFOCOM Best Paper Awards with the paper entitled “Understanding Ethereum via Graph Analysis”.
  7) Ph.D. student, Ms. Huizheng Qian receive IEEE MTT-Society Graduate Fellowship Award.

B.5 Affinity Group Activities

- Young Professional (YP)
  - YOUNG PROFESSIONALS Chengdu

<table>
<thead>
<tr>
<th>Event Title</th>
<th>Event Date</th>
<th>Event Category</th>
<th>Organizational Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distinguished Alumni Mr. Bangxin Zhang Visits Machine Intelligence Lab, SCU</td>
<td>2018/3/29 10:00</td>
<td>Nontechnical</td>
<td>YOUNG PROFESSIONALS</td>
</tr>
<tr>
<td>Academic Salon on Artificial Intelligence in Medical Care - March</td>
<td>2018/3/7 18:00</td>
<td>Technical</td>
<td>YOUNG PROFESSIONALS</td>
</tr>
</tbody>
</table>

- Women In Engineering (WIE)
  None

- Life Member
  None

B.6 Awards & Recognition Activities

- Award constituted by the Section
1. Chengdu Section receive the gold medal of recognition for achieved their recruitment and retention goals in 2018.

- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year 2018
  None

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

- Newsletter (name and number of issues in the year)
  None

- 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 hold 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 Dec. 19, 2018, the workshop on AI for 5G is held at Chengdu, jointly TCS by Chengdu Section, Singapore section, IEEE Singapore Comsoc/VT chapter, there are more than 120 attendees from 15 countries including U.S., U.K., Canada, Australia, Finland, Singapore, Japan, South Korean, etc., and almost 20 IEEE Fellows, who shared their recent research progress on one-day workshop.
• Funding secured from the IEEE and external sources including sponsorships

  By collaborating with Sichuan branch of Chinese Institute of Electronic, during 2018 year, there were 6 conferences held successful jointly.

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
• Joint activities with any other Section
  ✷ IEEE International Conference on Communication Systems (ICCS), Dec, 19, 2018(Chengdu Section; IEEE Communications Society; Sichuan Institute of Electronics; Singapore Section; Singapore Section COM Chapter; Singapore Section VT Chapter; University of Electronic Science and Technology of China - UESTC)

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
  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

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.

D.2 Goals and Future Plans
Our goal is to develop section members smoothly up to 2,000 in the near future and serves our members 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 with local institute and industrial companies, and develop professional and carrier training.

Hold 1~2 workshop and 1 conferences to maintain the sustainable growth and financial stability.