IEEE Changwon Section

Annual Report 2015

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Changwon Section Report

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Affiliation</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
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<td><a href="mailto:yongwook@pknu.ac.kr">yongwook@pknu.ac.kr</a></td>
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<td>KMMS</td>
<td><a href="mailto:kmms1@kmms.or.kr">kmms1@kmms.or.kr</a></td>
</tr>
</tbody>
</table>

- Section Highlights
  - Collaboration with ICT convergence industry
  - Technical program with Korea Multimedia Society
  - High Membership activities

- Major Events (International, National)
  1) International Events : Technical sponsor for International conferences
     - 11th International Conference on Multimedia Information Technology and Applications (MITA2015) : June 30-31, Uzbekistan
  2) MOU Technical Sponsor for International conferences
     - International Conference on Industrial Engineering, Management Science and Application (ICIMSA2016) : Jeju Island, Korea
     - International Conference on Software Networking (ICSN2016) : Jeju Island, Korea
  3) Technical sponsor for National conferences
     - Spring Conference for Korea Multimedia Society : Andong, May 28~30
     - Autumn Conference for Korea Multimedia Society : Daegu, KNU, Nov. 6~7

- Major Chapter Activities
  1) 6 Excom meetings : Joint Board meeting with KMMS committee (Sep. 11, Oct. 01, Oct. 22, Nov. 06, Nov. 20, Dec. 17)
  2) Collaboration with ICT industry : LG-U+, Shinsungtelecom, ETRI, Mobile Center, DIP, Kyungpook TP, Busan TP, GigaKorea, SingongTech, Korea Oracle, Ciber LogiTech, PCN, Neighbor Systems etc
  3) Online membership activities
  4) MOU technical sponsor for 3 international conferences and 2 national conferences

- Major Student and Affinity Group Activities : No

- Awards
  1) Student Best paper in MITA2016
  2) Student Best paper in Spring/Autumn conference of Korea Multimedia Society

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

- Summary (as per submitted L50)
  - No financial activities for incoming and expense
  - All activities were supported by Korea Multimedia Society
  - No rebate in 2015 because our section did not satisfies the minimum requirements for 2014 report

- Any other financial activities
PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years: 200 members
- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
  - Organize Membership development committee (MDC) to increase membership activities
  - MDC promotes IEEE conference in online and registration fee discount for IEEE members in international conference
  - MDC supports the application instructions for senior member grade.
  - MDC reviewed the membership status and announced the status results on website (online) to Section members and Excom.

![Figure 1. Membership status for Changwon Section](image)

B.2 Chapter Activities

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 1</td>
<td>1st. Excom Meeting</td>
<td>1) Organization of Excom. 2) Plan for 2015 Section Activities</td>
</tr>
<tr>
<td>Sept. 11</td>
<td>2nd Meeting for IEEE Changwon Section &amp; KMMS &amp; Busan Readers Economic Newspaper</td>
<td>1) Industry relations for online/offline refresh training center - Online refresh training: Use/prepare a server in Busan Readers Newspaper - Offline refresh training: Prepare a training center in Busan Readers Newspaper 2) IEEE Changwon Section &amp; KMMS: Prepare training programs and contents 3) Future consultation: Division of roles and distribution of profit</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

1. Technical sponsored KMMS international conference : MITA2016
   - Date/Location : June 30 ~ July 2, 2015, Tashkent, Uzbekistan
   - Attendee : Ki-Ryong Kwon (Chair), Suk-Hwan Lee (Secretary), Eung-Joo Lee (Treasurer), Won-Joo Hwang (MDC), Do-Hoon Lee(MDC), Heung-Kook Choi (MDC)
   - Advice and control directly through involvement of technical program
     - Join the conference organizing committee as one of the general conference chairs
     - Join the program committee members
     - Chair technical sessions of the conference
     - Encourage its members to submit papers and attend the conference
     - Assist in publicity service through its mailing lists and its official web site
     - Best Award of Students Papers: 2 papers
   - Invited Talks
     1) Dr. Jong-Uk Choi (President of MarkAny, Korea)
        - Title : A Copyright Protection Technology for 3D Printing Model (STL)
     2) Prof. Chul Soo Lee (Vice Rect ICT Advisor Tashkent University of Information Technology)
        - Title : ICT Education Reform in Uzbekistan
     3) Prof. Igamberdiyev Husan Zakirovich (Tashkent State Technical University, Uzbekistan)
2. Technical Seminar for Graduate Students

<table>
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<tr>
<th>Date</th>
<th>Contents</th>
<th>Picture</th>
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</table>
| 2015.5.22    | - Presenter : Dr. Teak-Young Seung  
- Location : Pukyong National University  
- Attender : Graduate Students 20  
- Title : Vector map compression : A clustering approach                                                                                                                                                                                                                     | ![Image](image1.png)               |
| 2015.7.14~15 | - Presenter : Dr. Teak-Young Seung, Prof. Suk-Hwan Lee, Dr. Bong-Joo Jang  
- Location : Paledsiz Hotel, Busan  
- Attender : Graduate Students 20  
- Title : A new encryption algorithm for vector map data, User-defined Story description method, Weather radar image applications                                                                                                                                                       | ![Image](image2.png)               |
| 2015.8.13~14 | - Presenter : Dr. Liu Yang, N.V. Bang, Dr. Teak-Young Seung  
- Location : Pukyong National University  
- Attender : Graduate Students 15  
- Title : Traffic sign recognition for driving assistance, Selective encryption for vector map using simplification algorithm, Deep learning Naver                                                                                                                                               | ![Image](image3.png)               |

B.4 Students Activities

- Total number of Student Branches in the Section : No  
- Number of Student Branches formed in the current year : No  
- Section level student activities (student congress, paper and other contests, awards etc) : No  
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year) : No  
- Summary of Student Branch activities (Student Branch wise with attachment table/information)  
  - No student branches.

B.5 Affinity Group Activities

- Young Professional (YP), Women In Engineering (WIE), and Life member group start with KMMS and Excom activities.

B.6 Awards & Recognition Activities

- Award constituted by the Section  
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year 2015  
  - Students Best Paper by Changwon Section
July 1  
IEEE Changwon Section Student Best Papers in MITA2015  
(Two papers)  
- S. Gariev, Aziz Nasridinov, “Skyline Based Word Indexing in Suicide Related Tweets”

Nov. 6  
IEEE Changwon Section Student Best Papers in KMMS2015  
(Three papers)  
- Yeou-Reum Choi, “Local Face Feature Learning Method Using NIR-VIS”  
- Kye-Kyung Kim, “Bin Pikcing Object Recognition Using Multiple Resolution”

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

- Newsletter (name and number of issues in the year)
- Home Page of the Section (give the URL and how often it is updated)
  - In progress of Changwon Section Homepage
- Other means of contacts with Section members including social media
  - MDC actively used Mailing List for timely announcements of upcoming events.

B.8 Industry Relations

- Membership growth and retention
  - Excom members and Industry committee members (ICM) of KMMS approached many industries for the member renewal and activated the retention together.
  - Industry committee members (ICM)
    - Young Huh (KERI, Korea Electrotechnology Research Institute),
    - Dong-Ha Lee (DGIST)
    - Bong-Joo Jang (KICT)
    - Seung-Wook Choi (Busan TP)
- Activities for/with industrial members
  - In regular Joint board meeting of Excom and KMMS, ICM joined with many industry members to invited talk or make membership.

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<thead>
<tr>
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<th>Industry Activities</th>
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| Sept. 11 | 2nd Meeting for IEEE Changwon Section & KMMS & Busan Readers Economic Newspaper | 1) Industry relations for online/offline refresh training center
- Online refresh training : Use/prepare a server in Busan Readers Newspaper
- Offline refresh training : Prepare a training center in Busan Readers Newspaper
2) Industries : Busan Readers Newspaper (3) : Editor S.I. Kwon, Director I.H. Park, Reporter Y.Y. Jang |
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Details</th>
</tr>
</thead>
</table>
| Oct. 1 | Sixth Joint Board meeting of IEEE Changwon section and KMMS                       | 1) Industry relation activity: Organized by Busan IT Industry Promotion Agency, ETRI  
2) Industries: SingongTech, Korea Oracle, Ciber LogiTech, PCN, Neighbor Systems |
| Oct. 22 | Seventh Joint Board Meeting of IEEE Changwon and KMMS                           | 1) Industry Cooperation Workshop  
2) Industries: Mobile Center, DIP, Kyungpook TP, Busan TP, GigaKorea etc |
| Nov. 20 | IT Convergence Symposium of IEEE Changwon and KMMS                               | 1) New growth for Busan Image Industry with ETRI, Busan, KMMS, and IEEE Changwon Section  
2) Industry attender: ETRI (3) (Dr. Heung-Nam Kim (Chair), Dr. ChaeGu Kim (Busan center chair), Dr. Dae-Sub Yoon) |
| Dec. 17 | Ninth Joint Board Meeting of IEEE Changwon and KMMS                             | 1) Workshop for industry cooperation: Shinsungtelecom  
- Future IOT technology and wireless communication technology  
- Presenter: CTO SeungHyun Yang  
2) Industry attender: 2 (Shinsungtelecom) |

**B.9 Humanitarian Technology Activities**

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs and SIGHT Activities  
- Humanitarian Technology related activities and SIGHT Activities are started with the help of R10 and section funding and also KMMS funding.

**B.10 Community Activities**

- IEEE Social activities (Family day, IEEE day, Engineers Week)”: Start with the help of section funding and also KMMS funding.
PART C  - OTHERS : *No relevant items*

C.1  Special Events

- Please briefly describe the importance of special events and the outcomes achieved
- Funding secured from the IEEE and external sources including sponsorships

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

- Nature of relationship and details of any formal agreement signed
- Details of joint activities
- Benefit to IEEE members (for example discounts, access to technical information etc.)
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)

C.3   Collaboration with other IEEE Sections

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

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

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

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

C.6  Problems anticipated and suggestions for solutions, if any
PART D - GOALS AND PLANS

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

- Executive Meetings: We will have regular executive committee meetings this year.
- Membership Development Committee: The members in MDC will try to increase memberships in their respective organizations. And they will nominate Fellow upgrade candidates.
- Student Activities Committee: We will try to open new student branches in the Changwon Section. This Committee is also planning some technical and social events for students in the Kansai Section.
- Excom Committee: The Excom will promote cooperation between chapters and will work to establish new chapters and extend existing chapters into joint chapters in the Kansai Section.
- Technical Program Committee: The TPC will plan and hold several technical meetings
- Affinity Groups: We will organize Life members, WIE, and YP affinity group.

D.2 Goals and Future Plans

The IEEE Changwon Section has active plans for the year of 2016 as follows.

- Encourage academic-industrial cooperation
- Promote membership from industry.
- Promote student branch activities.
- Encourage the membership development. Efforts to increase the counts of higher membership such as IEEE Fellow and Senior Member.
- Technical supports will be given to seminars held by Chapters. Seminars on special topics will be held, inviting famous specialist in IT, BT, and NT. International conference and workshop will be encouraged to be held in Seoul.
- The contents of website will be strengthened to link Chapters and Student Branches with the help of all executive members.
- The newsletter will be published to contain the articles about traditional cultures of Korea to introduce them to foreign countries as well as technical articles.
- Changwon Section will strive to collaborate with other sections in other sites.
- Collaborate more closely with other academic societies of Korea including KMMS.

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