

TECHNICAL COMMITTEE ON __Semantic Computing__
 REPORT SUBMITTED BY: _Chengcui Zhang_

KEY VOLUNTEERS (PLEASE LIST YOUR TC'S ExCom AND ANY OTHERS)

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2015 PROGRESS REPORT & PLANS

Please enlist your membership's participation in your plans for the coming year by suggesting upcoming opportunities for Volunteer involvement.

ACTIVITY AREA	2015 ACCOMPLISHMENTS	2016 PLANS
<p>Highlights: Highlights of the past year, and special plans underway for the coming year. Indicate if you'd be interested in formally sharing your success stories with other TC Chairs at an upcoming CS TAOC meeting.</p>	<p>Highlights of the past year:</p> <ol style="list-style-type: none"> 63 new members since 2014. Financially sponsored and technically co-sponsored three IEEE conferences. Co-organized three events of Bay Area Multimedia Forum (BAMMF: www.bammf.org/), with totally eight events in the past 3 years. Two TCSEM public information and recruiting sessions were held during 2015. Recruited 1 industry liaison. Organized special issues with International Journal on Semantic Computing, IEEE Transactions on Multimedia, IEEE Multimedia Magazine, and invited papers to the International Journal of Multimedia Data Engineering and Management. 	<p>Opportunities for Volunteer Involvement:</p> <ol style="list-style-type: none"> Recruit more high-profile EC members. Establish social network sites for the TC. Recruit industry liaisons and Conference Vice Chair. Identify more effective ways of fostering the interactions and collaborations among TC members. Proactively recruit new TC members from under-represented groups. Further boost the reputation of the flagship conference (ICSC) of TCSEM. Form Special Interest Groups with the broad scope of Semantic Computing such as Natural Language Understanding, Big Data and Social Computing, and Privacy in Semantic Computing.
<p>Conferences: Describe TC's sponsorship, co-sponsorship, or co-operation of conferences. Include any planned launches or discontinuations. Did the TC actively participate on any program committees, technical committees, or steering committees of these conferences?</p>	<p>The main conference financially sponsored by TCSEM is the IEEE International Conference on Semantic Computing (ICSC'15). This conference had well-attended keynote sessions, tutorials, full paper sessions, workshops, posters, and a panel. In total, there are about 90 papers presented at ICSC'15. Both the current and the past chairs of TCSEM, and a few executive committee members were in the leadership team of ICSC'15. In addition, many TCSEM members were also members of the Program Committee of ICSC'15. In each year's ICSC event, at least one Executive Committee member of TCSEM (or the TC chair) serves as the general co-</p>	<p>Opportunities for Volunteer Involvement:</p> <ol style="list-style-type: none"> Help to run those conferences which TCSEMC sponsors or co-sponsors. Volunteer service can include developing new conference/symposium program, organizing special sessions and/or workshops, managing local

	<p>chair or program co-chair of ISM.</p> <p>TCSEM also financially co-sponsored (50%) 2016 IEEE Intl. Conf. on Multimedia Big Data (BigMM) and provided technical co-sponsorship to the 11th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP).</p> <p>In addition, in 2015, TCSEM also co-organized three events for the BAY AREA MULTIMEDIA FORUM (BAMMF: http://www.bammf.org/) with IEEE Technical Committee on Multimedia Computing, ACM Special Interest Group on Multimedia, and FX Palo Alto Laboratory.</p> <p>One or more EC members of TCSEM served in each of the above conferences as general/program co-chair, steering committee members, advisory board members, or other organizing roles. Many TCSEM members were also PC members of one or more of these conferences.</p> <p>Next year, TCSEM will financially co-sponsor (50%) one additional conference, IEEE Intl. Conf. on Information Reuse and Integration (IRI'17).</p>	<p>arrangements, publications, registration, or finance.</p>
<p>Communication: Describe your TC's communications strategy (including frequency) with your membership (eg, newsletters, listservs, blogs, Twitter, Facebook, letter from the Chair, Web portal, etc.) Include info on how to subscribe. Any updates or changes completed or planned for the coming year?</p> <p>Please list your URL and the name & email of the Web master.</p>	<p>The TC has a newsletter, subscribed and distributed by email and web portal, which informs TC members and other subscribers about how to subscribe, and relevant events concerning the community, including various calls for conferences and journals, call for participation of TCSEM general meetings, call for involvement in various editorial activities, volunteer opportunities, and industry news. The electronic newsletter was published twice during 2015. In 2016, the electronic newsletter will be published with a higher frequency, with the goal of achieving a monthly frequency.</p> <p>In addition, two TCSEM public information and recruiting sessions were held during ICSC'15 and ISM'15, respectively, open to all TCSEM members as well as conference attendees.</p> <p>Web Portal: http://www.computer.org/web/tcsem</p>	<p>Opportunities for Volunteer Involvement:</p> <ol style="list-style-type: none"> 1. We need member-contributed scientific briefs, stories, industry news, and descriptions of interesting academic/industrial projects that can be incorporated into the newsletter content. 2. Volunteer service needed to help enlarge our community or to identify ways that TCSEM can better serve its members. 3. Volunteer service needed to build social network websites (Facebook,

	<p>Newsletter Editor: Dr. Wei-Bang Chen (Virginia State University)</p> <p>Web Master: Dr. Chengcui Zhang (The University of Alabama at Birmingham) Email: czhang02@uab.edu</p>	<p>LinkedIn, etc.) to better connect to its members.</p>
<p>Meetings: Any TC meetings held/planned? At what venue (at conferences, teleconferences, videoconferences?)?</p>	<p>Two Executive Committee meetings were held in 2015 in conjunction with 2015 IEEE International Conference on Semantic Computing (February, 2015, Anaheim, CA, USA) and 2015 IEEE International Symposium on Multimedia (December, Miami, USA).</p> <p>In 2016 we plan to have TC meetings at ICSC'16 and ISM'16. In addition, the TC-Executive Committee is in frequent email or telephone contact to discuss issues relevant to the community, and to TC operations.</p>	<p>Opportunities for Volunteer Involvement:</p> <p>Volunteer service is needed to facilitate TC meetings and can include meeting planning, managing local arrangements, collecting pre-meeting ideas for agenda items, and so on.</p>
<p>Publications: Sponsored publications or hosted special issues of a Computer Society magazine? Plans for one?</p>	<p>The TC chair and several other EC members organized special issues with International Journal on Semantic Computing, IEEE Transactions on Multimedia, IEEE Multimedia Magazine, and invited papers to the International Journal of Multimedia Data Engineering and Management, including:</p> <ol style="list-style-type: none"> 1. Special Issue for the 2015 IEEE International Conference on Semantic Computing on International Journal on Semantic Computing 2. Special Issue for the 2015 IEEE International Symposium on Multimedia on International Journal on Semantic Computing. 3. Special Issue on "The Biggest Big Data" on IEEE Trans. on Multimedia 4. Special Issue for the 2015 IEEE International Symposium on Multimedia on IEEE Multimedia Magazine. 5. Invited papers of the 2015 IEEE International Symposium on Multimedia (ISM2015) to the International Journal Multimedia Data 	<p>Opportunities for Volunteer Involvement:</p> <ol style="list-style-type: none"> 1. Reviewers and editorial members are needed for those journals that TCSEM have developed a good relationship with. 2. Special issue guest editors are needed to promote the journal publication of high quality papers from TCSEM sponsored conferences.

	Engineering and Management (IJMDEM, IGI Global).	
<p>Standards Committee Activities: Describe TC's support of or participation in Standards-related activities.</p>	None	<p>Opportunities for Volunteer Involvement:</p>
<p>Collaborative Efforts: Collaboration with other TCs, IEEE, or other groups or committees?</p>	<p>The executive committee has been actively collaborating with other societies and committees. Dr. Chengcui Zhang, the current chair of TCSEM, is also the secretary and newsletter editor of IEEE Technical Committee on Multimedia Computing. EC member Dr. Shu-Ching Chen is a co-chair of the Technical Committee on Knowledge Acquisition in Intelligent Systems with IEEE SMC Society. Two EC members of TCSEM are current fellows of the Society for Information Reuse and Integration (SIRI). Dr. Chengcui Zhang is a steering committee member of SIRI.</p> <p>In 2015, TCSEM co-organized three events for the BAY AREA MULTIMEDIA FORUM (BAMMF: http://www.bammf.org/) with IEEE Technical Committee on Multimedia Computing, ACM Special Interest Group on Multimedia, and FX Palo Alto Laboratory.</p> <p>TCSEM financially co-sponsored the 2015 IEEE International Conference on Big Multimedia Data (BigMM'16) with IEEE Technical Committee on Multimedia. TCSEM will also financially co-sponsor IEEE International Conference on Information Reuse and Integration in 2017.</p> <p>One industry liaison (affiliated with Google Inc.) was recruited last year.</p> <p>The EC closely collaborated with International Journal of Semantic Computing, IEEE Transactions on Emerging Topics in Computing, International Journal of Multimedia Data Engineering and Management, and IEEE Transactions on Human Machine Systems. Several EC members served as the Editor-in-chief, associate editors, steering committee</p>	<p>Opportunities for Volunteer Involvement:</p> <p>Industry liaisons are needed. Their services can include actively engaging the TC in the development of industry standards, finding industry sponsorship for TCSEM-sponsored or co-sponsored conferences, and highlighting real-world emerging applications.</p> <p>New members will be actively recruited from other TCs or groups of committees who have a joint interest in multimedia computing, thus we can promote the diversity and further expand & deepen the fields/areas of TCSEM.</p>

	<p>members, editorial board members, or guest editors.</p>	
<p>Awards and Recognition: Describe your TC's awards activities – given and planned.</p>	<p>The executive committee of TCSEM has always been actively promoting its members for various prestigious awards such as IEEE Technical Achievement Awards and IEEE Senior members. Also, the executive committee has seen it essential to promote our TC members to the technical program committee and/or the organizing committee of internationally renowned conferences. Many TC members were successfully recommended and included in the TPC and/or the OC of several prestigious conferences.</p> <p>TCSEM technically sponsored the best paper and best student paper awards at ICSC'15. One TCSEM student volunteer award was given out.</p> <p>In BigMM'16 and ICSC'16, TCSEM will continue to technically sponsor the best paper awards. At least one student volunteer/travel/research award will be given out next year.</p>	<p>Opportunities for Volunteer Involvement:</p> <ol style="list-style-type: none"> 1. Volunteer services are needed, especially from those senior members of TCSEM, to help promote junior members to the organizing committee/steering committee/technical program committee of the leading conferences in the semantic computing area. 2. Volunteers are needed for participation in the selection of the best paper award.
<p>Concerns: Share your TC-related concerns with your members.</p>	<p>The main goal in 2016-2017 is to promote the main conference sponsored by TCSEM, the IEEE International Conference on Semantic Computing (ICSC), to be IEEE's flagship conference in the semantic computing area. For this conference to grow and to achieve a highly competitive position with some of the leading conferences in the field, we plan to:</p> <ol style="list-style-type: none"> 1. recommend best papers to prestigious Information science journals; 2. collaborate more closely with prestigious journals such as IEEE Transactions on Emerging Topics in Computing and IEEE Transactions on Human-Computer interaction and try to organize one special issue with each of them each year; 3. build a very high quality program with proven distinguished speakers (e.g., NAE members, IEEE/ACM fellows, or top executives in major companies) ahead of the paper submission deadline; 	<p>Opportunities for Volunteer Involvement:</p> <ol style="list-style-type: none"> 1. Volunteer services are needed to recruit new members, including students and under-represented members of the population. It is one of the TC's missions to address the needs of constituent groups, including students, retirees, women, and international members. 2. Volunteer services are needed to build social network websites that promote ISM and other TCSEM-sponsored conferences. 3. More EC members will be recruited.

4. build a more diverse conference program that includes panels on “Women in Semantic Computing” and forum on “Rising Stars in Semantic Computing,” etc.
5. start a rewards and recognition program that rewards authors of high impact papers and loyal attendees;
6. promote the main conference through online social, blogging, and leveraging conference content (photos, presentations, videos, etc.);
7. more actively engage industry in prolonged interactions around research, conference co-sponsorship, and education that addresses their needs;
8. submit conference and community news and event announcements for inclusion in the Computer Society's "Member Connection" and "Conference Connection" newsletters, as well as CS Social Networking tools.

Another goal is to further diversify the conference profile of TCSEM. In 2016, TCSEM will financially (50%) sponsor one more conference, IEEE Conf. on Multimedia Big Data (BigMM) that sits at the intersection of big data semantics and multimedia informatics. In 2017, The TC will financially (50%) sponsor one more conference – IEEE Intl. Conf. on Information Reuse and Integration (IRI).

New members will be actively recruited from other TCs or groups of committees who have a joint interest in multimedia computing, thus we can promote the diversity and further expand & deepen the fields/areas of TCSEM.

Reports will be posted on the TC's Computer.org "Scope Page".