**Annual Report of the SIG Governing Board**

**For the period: 1-July-17 through 30-June-18**

**Submitted by: Jeanna Matthews**

**Date: September 14, 2018**

1. **The SIG Governing Board (SGB)**

The SGB is comprised of the chief executive officer or designee of each regular SIG. The SGB is charged with forming SIGs, with managing them and setting policies for their management, and with recommending their dissolution. The SGB elects a Chair, Executive Committee and 3 additional representatives to Council.

**The SGB EC**

The SGB elects a Chair and an Executive Committee, which has full authority to act on behalf of the SGB between its meetings. The SGB EC is bound by the SGB’s actions and the SGB may override any decision of the SGB EC. The SGB EC is made up of the following positions which were approved following the review and approval of the restructuring task force recommendations:

**SGB Chair -** Serves as SGB EC Chair, one of the four SIG Representatives on ACM Council, and as the SIG Representative on the ACM Executive Committee. Also responsible for SIG financial and budgetary issues and overseeing SGB committees and task forces.

**SGB EC Vice Chair for Operations** – Presides over SGB and SGB EC Meetings, including SGB EC conference calls. Oversees SIG Liaisons to ACM Committees and Boards.

**SIG Development Advisor** –. Identifies emerging technical areas and works with individuals and groups interested in forming SIGs.

**SGB Conference Advisor** – Oversees developing conference activity to be sponsored by the SGB.

**New SIG Advisor** – Acts as liaison for newly chartered SIGs and helps to nurture and support new SIG leadership as they develop programs and activities.

**SIG Viability Advisor** – Oversees transitional SIGs and works with SIGS scheduled for program reviews. Also acts as the SIG election liaison.

**SIG Awards Advisor -**. Acts as liaison for SIG leaders and Awards Committee and helps SIG leadership with proposals and approval process.

**Publications Advisor** – Acts as liaison between SGB and Publications Board and oversees issues related to publications as directed by the SGB

**SGB** **Past Chair-** Provides guidance and advice to the SGB EC and chairs the SGB EC nominating committee.

**Director of SIG Services** – Staff liaison

**During FY’18 the following individuals held the positions indicated:**

**Name Position Term End**

Jeanna Matthews Chair June 30, 2018

Patrick Madden Past Chair June 30, 2018

Will Tracz SIG Viability Advisor June 30, 2019

Simon Harper SIG Development Advisor June 30, 2019

Sarita Adve New SIG Advisor June 30, 2018

Suman Banerjee SGB EC Vice Chair for Operations June 30, 2018

Jeff Jortner SGB Conference Advisor June 30, 2019

Insup Lee SIG Awards Advisor June 30, 2018

Yannis Ioannidis Publications Advisor January 1, 2020

Donna Cappo Staff Liaison

**Council Representatives**

The SGB elects 3 representatives to the ACM council for two-year terms.

During FY’18 the following individuals held the ACM Council positions indicated:

Name Position Term End

Jeanna Matthews SGB Chair June 30, 2018

Paul Beame SGB Representative June 30, 2018

Renee McCauley SGB Representative June 30, 2019

Loren Terveen SGB Representative June 30, 2018

**Standing Committees**

The SGB is responsible for the oversight of the Federated Computing Research Conference Steering Committee currently chaired by Rajiv Gupta. Past Chairs Dean Tullsen and Barbara Ryder and Donna Cappo, Director of SIG Services are members of the committee. Vivek Sarkar is the Chair for FCRC 2019 and Mary Hall was named Plenary Speaker Chair. FCRC’19 will include COLT, CRA-E workshop, EC, E-Energy, HPDC, ICS, ISCA, IWQoS, PLDI, SIGMETRICS, SPAA and STOC. All affiliated workshops and tutorials will bring the number of events for the week to 60+.

**Significant SGB actions**

**Emerging Interest Groups**

2 Emerging Interest Group were charted: E-Energy and Smart Connected Communities.

**Program Reviews**

Positive input from the SGB was received on the new review process. ACM HQ coordinators send the SIG leaders activity reports outlining details regarding membership, conferences, leadership, finances and past viability reviews. In addition, a reach report is sent outlining downloads citations and other information regarding the community being reached. L are also provided with the mission statements and description of the SIG that ACM has on file.

**Miscellaneous Appointments**

SIG leaders appointed as committee liaisons:

Name Position Term End

Yannis Ioannidis Publications Board Liaison July 1, 2020

Rajiv Gupta FCRC Steering Comm. Chair July 1, 2019

Tao Xie History Committee Liaison July 1, 2018

Flo Appel USACM Liaison July 1, 2018

Jeanna Matthews USACM Liaison July 1, 2018

Pradip Bose Distinguished Speaker Comm Liaison July 1, 2018

**SGB Nominating Committee**

The SGB Nominating Committee nominates candidates for the SGB EC, in addition to nominating candidates for SGB Chair and SGB Representatives to ACM Council. The nominating committee:

Name Position Term End

Patrick Madden Past SGB Chair June 30, 2018

Jeanna Matthews SGB Chair June 30, 2018

Donna Cappo Staff Liaison

1. **SIG Membership**

Appendix A summarizes basic SIG Statistics for FY’18. Included are member and subscriber totals and conference activities.

**Membership Counts by class of membership:**

**FY’16 FY’17 FY’18**

ACM/SIG Members 26,355 25,142 24,824

SIG Only Members 10,670 11,407 11,761

Subscribers 623 394 414

Total SIG Memb/Subs 37,648 36,943 36,999

Total ACM Members 93,776 97,667 91,323

The SIGs overall member/subscriber count is 36,999 as compared to 36,943 in FY’17.

1. **SIG Program Reviews and Annual Reports**

Program Reviews and annual reports are the reporting mechanism for individual SIGs to the SGB.

**Program Reviews**

The following SIGs were found viable to continue their status for the next 4 years:

SIGAda, SIGEcom, SIGEVO, SIGKDD, SIGLOG, SIGMICRO, SIGOPS, SIGSOFT, SIGWEB

The following SIGs were found viable to continue their status for the next 2 years:

SIGAI, SIGCAS,

The following SIGs were found viable to continue their status for the next year:

SIGSAM

**Annual Reports**

Annual reports were received from all SIGs except for SIGMICRO and SIGMOD

The leadership was informed that if they submitted their report, it would be added to appendix D.

**Highlights from Appendix D – SIG Annual Reports**

**International Activities**

**SIGAda-** SIGAda and Ada-Europe in particular have been discussing additional ways to coordinate our activities and share content across our user publications, to ensure efficient and effective connections to the industrial and academic computer science and information technology communities. We have just completed our first iteration of including selected Ada-Europe content into Ada Letters.

**SIGCHI -** Significant and continued emphasis on international development. Our goals are to help develop HCI communities around the world, and to integrate regional HCI communities into the worldwide network of HCI researchers and innovators. We have sponsored a number of events in eastern Asia, including in Thailand, Indonesia, and Japan. bringing together researchers and practitioners from around the region.

We also are in advanced stages of identifying a location in Japan for the CHI 2021 conference. In

addition, we have greatly expanded our efforts in “developing” countries, that is, Global South. We held

three SIGCHI Across Borders events (in Egypt, Argentina, and Swansea) in order to listen to the needs of

HCI community members from places where HCI is still a nascent area. In 2017-2018, 16 new SIGCHI

local chapters were established, in 12 new countries in the Global South, of which 7 new chapters in

Asia, 2 in Africa, and 3 in Latin America. Overall, there are 50 SIGCHI local chapters in 39 different

countries. The geographical coverage of SIGCHI chapters is greater than ever.

**SIGCOMM -** A specific initiative currently underway is the creation of a network of researchers in Latin America, a currently under-represented region but with substantial potential to grow. We hope to inform research groups there about the benefits of getting involved with the SIG, and also understand their reality to become more efficient in how we support them to gradually increase engagement in conference participation and organization.

**SIGEVO** - The first GECCO in Asia (Kyoto, Japan) was a huge success: Submissions are very high for a non-European GECCO (513 full papers, involving 1896 different authors from 55 countries, with China, USA and Japan as leading countries). Acceptance rate was kept below 40% (194 full papers). Nevertheless, and in spite of our fears regarding travel distance and cost, the attendance is the highest ever in GECCO history, with almost 700 attendees (691). Direct poster submissions continued to be a success, with 65 submissions (and 31 accepted, not counted in the acceptance rate).

**SIGIR** - Initiated a co-sponsored Africa Summer School on Information Search and Data Mining with SIGKDD (the official title is “ACM SIGIR/SIGKDD African Workshop on Machine Learning for Data Mining and Search”). This event is scheduled to take place at the end of January 2019 in Cape Town, South Africa.

**SIGMM** - SIGMM has approved the launch of a new conference series called Multimedia Asia which will commence in 2019. This will be run by the SIGMM China Chapter and consolidates two existing multimedia-focused conferences in Asia under the sponsorship and governance of SIGMM. This follows a very detailed review and the successful location for the inaugural conference in 2019 will be announced at our flagship conference in October 2018.

SIGOPS – We have created a new summer school, the SIGOPS Summer School on Advanced Topics in Systems (SATIS), which will be held in August in Norway (<http://site.uit.no/satis2018/>).  The three-day summer school is targeted at Ph.D. students, junior faculty, and engineers, and easily sold out.  We are already in the planning stages for the next installment, to be held in China in 2020.

**SIGPLAN** - Our efforts to produce PACMPL should help researchers in Asia, Eastern Europe, Africa, and South America, whose home institutions tend to overlook the rigorous review of SIGPLAN conference papers. (This is especially true as SIGPLAN Notices, which used to publish our conference proceedings was previously indexed as a journal, but no longer is.)

**SIGSOFT** - To broaden SIGSOFT’s reach and membership, SIGSOFT has established national chapters in India (ISoft) and China (CSoft). Each chapter has a liaison on the SIGSOFT EC, in addition to our long-standing International Liaison. As part of the support for these two communities specifically, SIGSOFT sponsors travel for a total of four SIGSOFT Distinguished Paper Award winning authors to present their work at ISoft’s and CSoft’s flagship national events (two at each event). The success of this program is reflected in the decision by the organizers of ISEC 2017, ISoft’s premier event, to fund the attendance and presentation of additional SIGSOFT Distinguished Paper Award winners. Furthermore, SIGSOFT has sponsored travel for two speakers at each of the three annual Warm-up Workshops organized to expose the Latin American software engineering community to ICSE, which was held in Buenos Aires in 2017. SIGSOFT has been in discussions with the organizers of ICSE 2017 to sponsor a post-mortem event for the Latin American software engineering community.

**SIGSPATIAL** - SIGSPATIAL has four Chapters: SIGSPATIAL Australia, SIGSPATIAL China, SIGSPATIAL Korea, and SIGSPATIAL Taiwan. These chapters are representative of the amount in interest in SIGSPATIAL from members in these regions and are reflected by their participation in the flagship conference as both authors and attendees, as well as their active involvement in the Program Committee and various other roles in the Organizing Committee. A notable achievement is that thanks to the activities of the SIGSPATIAL Australia chapter, right now ACM SIGSPATIAL is a ranked conference in Australia.

**Collaboration**

**SIGACCESS -** This year, SIGACCESS added a tool for conference organizers, which prompts for information about the conference and generates HTML for an accessibility FAQ web page for the conference. SIGACCESS and SIGCHI are adopting a policy of having this page located at /access on the websites of all their conferences.

**SIGAda** - A formal liaison exists between SIGAda and ISO WG9. ISO/IEC JTC1/SC22 WG9 is that body of international representatives responsible for the maintenance and evolution of the Ada International Standard. The National Bodies represented on WG9 have included Belgium, Canada, France, Germany, Italy, Japan, Switzerland, the United Kingdom, and the United States

**SIGARCH** - Creating an inclusive and diverse community: Over the last year, the architecture community has mobilized through a broad range of activities to make diversity and inclusiveness central tenets of all our endeavors. SIGARCH has played a key role in this process. The SIGARCH blog, Computer Architecture Today, served as an invaluable digital meeting space to expose problems, promote solutions, and provide a voice for the community to express itself on these issues. SIGARCH formed CARES, a committee to aid reporting of sexual harassment at SIGARCH events in consultation with ACM. Official recognition by ACM enabled SIGMICRO to join SIGARCH CARES in March. The program has since been emulated by other communities and also influenced ACM’s new harassment policy. Margaret Martonosi and Kathryn McKinley are the co-chairs of the first CARES committee. CARES members provided support at ASPLOS’18 and ISCA’18. The work of the architecture community has attracted attention broadly across Computer Science. The SIGARCH chair gave presentations summarizing this work (not all of which came through SIGARCH) at the ACM SGB meeting and at a CRA Snowbird conference panel. These presentations and a summary of the above activities, including pointers to various blog posts, appear here: http://bit.ly/inclusive-arch

**SIGACT -** The Committee for the Advancement of Theoretical Computer Science (CATCS), sponsored by SIGACT, continues to be very active. The committee meets by conference call every month and has developed and executed action plans to increase the visibility of theoretical computer science and to increase the funding base for theory of computation at the NSF. The Committee has helped advise the NSF CCF Director and other NSF officers on several matters including recruiting for positions within. The committee has also been working to obtain a more detailed and complete picture of the state of academic employment in theoretical computer science within the broad range of US research universities.

**SIGBED –** SIGBED continues to sponsor two major federated conferences, CPSWEEK (comprised of HSCC, ICCPS, IPSN, and RTAS) in the spring and ESWEEK (comprised of CASES, CODES+ISSS, and EMSOFT) in the fall, as well as several other leading conferences in the embedded systems community.

**SIGBIO -** The Workshop on Algorithms in Bioinformatics (WABI), established in 2001, is a major annual international conference. It is a single track meeting that features high quality algorithmic work in bioinformatics and attracts about 60-75 attendees. In recent past, the conference has completely shifted to Europe and held as part of the ALGO Conferences, primarily due to difficulty in identifying suitable organizers in the U.S. The SIGBIO chair worked with WABI steering committee to run WABI as part of ACM BCB conference in Atlanta in 2015. Essentially, the WABI program was run as one of the tracks of the ACM BCB conference. This was a successful experiment that provided additional value to participants of both the meetings. Subsequently, SIGBIO forged an agreement with WABI to make it a part of ACM BCB conference every alternate year. The second such co-location was with ACM BCB 2017, which played a role in garnering record attendance to date.

**SIGCAS -** SIGCAS continues to promote the idea of computing professionals having a socially relevant influence. SIGCAS, in addition to continue working with SIGCSE in planning pre-Symposium events, is also exploring cooperative ventures with other SIGs. Currently that is in the talking stage but we have offered support.

**SIGHPC -** Following the success of the pilot Advanced Computing for Social Change programs as SIGHPC's flagship SC16 and SC17 conferences, the SIG has decided to develop the concept into a repeatable competition that will be available for export to other SIGs.

**SIGKDD** - Jointly with SIGIR we are running the Africa Summer School on Information Retrieval and Data Mining in early 2019.  We also sponsored the European Data Science Summer School jointly with SIGMOD.

**Programs and conferences**

**SIGACCESS -** This year, SIGACCESS helped to grow and diversify the field of accessibility through the ACM Student Research Competition, the ASSETS Doctoral Consortium (sponsored by NSF), a mentoring program for new authors, and 4 travel scholarship awards.

**SIGAda** - Since 1994 SIGAda has conducted an “Ada Awareness Initiative.” It includes our SIGAda professional booth display unit in exhibition halls at important software engineering conferences, as well as encouraging other Ada awareness activities, such as the “Make with Ada” contest sponsored by AdaCore, and an Ada “room” at the annual FOSDEM open source conference in Belgium. These activities let folks know that Ada is very much alive and a sound part of any software engineering effort having real-time, high integrity, high-assurance, and highly distributed requirements.

**SIGAPP** - The Student Travel Award Program continues to be successful in assisting SIGAPP student members in attending conferences. This year 36 students were granted awards to attend SAC 2018. $36,122.00 was spent for this year of these awards.

We will also implement a Developing Countries Travel Award for faculty-level researchers from developing countries who would otherwise have difficulty attending the SAC conference to broaden participation either geographically. We may implement this award for the SAC 2020.

**SIGARCH** - Lightning mentoring sessions: At ISCA’18, we continued our “Meet a Senior Architect” mentoring program under the leadership of Joel Emer. The program matches students with mentors (through questions asked in the conference registration form), providing students the opportunity to meet 1-on-1 with a senior architect for about half an hour at the conference. Starting with 17 mentors and 33 students in 2016, this year the program attracted about 100 mentors and 145 students (including 39 as new SIGARCH members). The responses to past surveys indicate the program is a highlight for many students; e.g., “most valuable experience I had at a conference; I am 10 times more excited about ISCA now; makes approaching senior members far less intimidating; etc.

**SIGCAS -** Computing for Social Good (CSG): SIGCAS continues to be the primary SIG sponsor behind the Computing for Social Good in Education (CSG-Ed) movement. This effort seeks to show educators how to evolve their current curriculum (programming projects, in-class examples, etc) to highlight the importance of computing in solving the pressing problems of the day. All too often our projects and examples highlight games or billionaire-producing killer apps instead of how computing can assist in understanding and solving important social, environmental, or health-related problems (to name a few). A sister-track for CSG was held at SIGCSE in 2018 and a mini-workshop was offered.

**SIGCHI -** Public communications and outreach. At CHI 2018, we continued to offer a course to our members on how to work with the press and communicate with the public. We intend to offer this for one more year at CHI 2019. In addition, we created a program of “Ted-like” public talks called CHI Lites

( https://sigchi.org/chi-lites/ ) presented in conjunction with CHI and to be made available as high-quality videos through our YouTube channel - https://www.youtube.com/user/acmsigchi . We intend to do this program again for CHI 2019 in order to gather more public facing videos.

**SIGCOMM -** Three years ago, an industrial liaison board (ILB) was established with the goal of coming up with ideas and suggestions to increase industry participation at SIG-sponsored conferences.

**SIGCSE -** Every other year the SIGCSE Board sponsors a New Educator’s Workshop where graduate students and new academics are provided with career information and mentorship. The New Educators Workshop took place on February 21, 2018 as a pre-symposium event before the 2018 Symposium. The workshop was organized by Andrea Danyluk (Williams College) and Zachary Dodds (Harvey Mudd College). Forty one new educators attended the workshop. There were nine speakers, including the two organizers. Additionally, there were guests from the NSF and NCWIT. SIGCSE provided travel grants of $500 to each of nine attendees, six graduate students, one postdoc, one adjunct community-college professor, and one participant who could not attend in 2016 for funding reasons. Most of the remaining attendees were new faculty.

On alternate years the SIGCSE Board runs a workshop for chairs of computing departments. The next Department Chairs Roundtable will be held in Minneapolis, Minnesota in February 2019.

**SIGDA -** In the past year, ACM SIGDA continues organizing the following education activities. More details can be found on SIGDA webpage.

1. PhD/Student Research Forums at DAC, DATE, and ASPDAC

2. Design Automation Summer school at DAC

3. University Research Demonstration at DAC

4. CADAthlon at ICCAD

5. ACM Student Research Competition (SRC) at ICCAD

6. Young Faculty Workshop at DAC

Besides the above activities, SIGDA communicates using SIGDA E-News and continues to deliver an online education program: SIGDA Live Webinar, which is held bimonthly.

**SIGDOC -** SIGDOC awarded its first Best Paper award to Emma J. Rose and Elin A. Björling for their paper, “Designing for Engagement: Using Participatory Design to Develop a Social Robot to Measure Teen Stress.” We plan to continue to present a best paper award at future conferences to highlight the rigorous and impactful work being done in the field.

**SIGEcom –** We held a new event that we called “AGT Fest” as part of the conference. At this event, we held invited talks about excellent papers that recently appeared in other publication venues; these talks were selected based on nominations and adjudicated by a dedicated committee. Our goal was preventing fragmentation, drawing in underrepresented communities, and maintaining EC as a “one-stop shop” for cutting edge research at the boundary between economics and computer science. This year we had three papers that appeared at both CS conferences and a top Econ journal. The event was very successful; we hope to grow it to include more papers next year.

**SIGEVO – Competitions**: Five competitions were held at GECCO-2018 with awards and prizes presented at the SIGEVO Annual Meeting. The areas of the competitions were

* Black Box Optimization
* Internet of Things: Online Anomaly Detection for Drinking Water Quality
* Niching Methods for Multimodal Optimization
* The General Video Game AI
* Virtual Creatures

**SIGGRAPH -** For the past fifteen months, the ACM SIGGRAPH Executive Committee has been directing its work to support the strategic needs of our communities. We devote the majority of in-person meeting time to strategic discussions and save the administrative and operational work for bi-weekly hour-long tele-cons. We have formed six strategy committees within the EC with the assistance of a few non-EC members.

**SIGHPC -** The SC17 Cluster challenge with support and encouragement of SIGHPC focused on replication of scientific studies. All of the student teams were assigned the task of replicating the results of a selected SC16 paper. During the conference, they coded and demonstrated their efforts. Conference attendees were able to stop by the booths for each team and talk with the students about their efforts. This project promoted the importance of replication in CS.

**SIGIR -** Awarded approximately $218K in student travel scholarships to those attending SIGIR-sponsored and co-sponsored conferences: SIGIR, CHIIR, ICTIR, CIKM, WSDM and JCDL.

**SIGKDD -** We set up a deep learning day and a health science day in the KDD conference, in the hope to promote the interdisciplinary research in those strategically important areas.

SIGLOG - SIGLOG continues its support of summer schools, student mentoring workshops and workshops for Women in Logic. We have allocated money to all three programs for the coming year.

**SIGMETRICS -** Two years ago the Sigmetrics executive board decided to explore moving the flagship conference to a journal/conference hybrid model. We submitted a proposal to ACM and got selected as the first conference to publish our proceedings as part of the Proceedings of the ACM series. The first conference under the new model was held this year.

From the year-2, we can describe the transition to the new multiple submissions and reviewing process a successful one from every measure. We had a record number of papers in the conference (54), without compromising on quality (a total of 270 submissions). The acceptance rate was 20%, which on its own is similar to past years, but the acceptance rate was much higher for the 1-shot revision papers, which is a direct result of our multiple submission and reviewing process. We have observed both more submissions and an improvement in the quality of submissions as the papers went through the reviewing process. A number of sister conferences are now keen to follow the model that we have instituted (e.g. NSDI).

**SIGMIS** - This year’s conference featured keynote plenary sessions at the main conference one oriented to academic issues, the other a practitioner following the conference theme. Since 2006, SIGMIS has held the Computers and People Doctoral Consortium. This year’s CPR Doctoral Consortium was held on June 18, 2018 at the SIGMIS CPR Conference with 8 participating doctoral students and 3 faculty mentors. Doctoral students came from 5 countries (US 3, India 2, Singapore, Germany, and New Zealand). Beginning with the CPR 2011 conference, SIGMIS has been providing travel grants to Doctoral Consortium participants.

**SIGMM** - Apart from the specific sessions dedicated to open source and datasets, the ACM Multimedia Systems Conference (MMSys) has started to provide official ACM badging for articles that make artifacts available. This year, our second year for doing this, has marked a record with 45% of the articles published at the conference acquiring such a reproducibility badge

SIGOPS - SIGOPS encourages participation in conferences and career building activities for young members of the community. For example, substantial funding was provided this year as travel grants for students to attend conferences and diversity workshops, with many of these grants targeted at women and underrepresented minorities.  We support SOSP, Eurosys, PODC, APsys, CRA Grad Cohort Workshop, SOCC, and VEE with student travel grants.  We also provide sponsorship for childcare services and travel grants earmarked for female and URM participants at major systems conferences in the past year to promote diversity.

**SIGPLAN** - The SIGPLAN Executive Committee (EC) has been working on a number of issues involving the management of conferences and conference publications. These include:

- Environmental costs of conference-based publishing. SIGPLAN formed ad hoc committee on mitigating the effects of climate change, chaired by Benjamin Pierce, with Crista Lopes and Michael Hicks as members. Jens Palsberg joined last year as a member (and is now the SIGPLAN Chair, coincidentally). Following our evaluative report and CO2 estimation service developed last year, and the determination that the cost/benefit of conference colocation was high, the committee has looked closely at CO2 offsets as a mechanism for sustainable conference participation, developing a report, carrying out surveys, and launching a pilot effort.

- Another factor with conference location choice (aside from CO2 cost) is the recent USA travel ban of foreign nationals from certain countries. There is some hesitance within our international community with hosting conferences in the USA. At the same time, a large center of gravity for the SIGPLAN community is in the US. An ongoing challenge will be the balance issues of fairness and cost while also ensuring the best technical results from our meetings.

SIGSAC - SIGSAC help supported the Women in CyberSecurity Conference (<https://www.wicys.net/wicys-2018/>)

and the 1st Workshop for Women in Cyber Security (CyberW) <https://sites.google.com/a/vt.edu/cyberw2017/home>

**SIGSAM** - Two papers published in 2017 under the auspices of SIGSAM that have garnered significant interest are:

- “High Performance Computing Experiments in Enumerative and Algebraic Combinatorics”, Florent Hivert, (published in the proceedings of PASCO 2017), and

- “A Case Study on the Parametric Occurrence of Multiple Steady States”, Russell Bradford et al, (published in the proceedings of ISSAC 2017).

Both of these papers show the applicability of computer algebra to interesting new domains (search in high performance computing, and analysis of biological systems, respectively). SIGSAM is currently working to help lead the community’s research energies in some new directions.  We are trying to arrange the next ECCAD to be hosted by a group at Carnegie Mellon that works in formal methods and hybrid systems, with an eye to fostering more connections between computer algebra research and work in computational logic.

**SIGSIM -** SIGSIM-PADS joined the ACM Reproducibility Initiative this year by successfully creating a reproducibility committee to evaluate papers. Lessons learned will be shared with other SIGSIM sponsored conferences.

**SIGSOFT -** Most of our conferences offer Doctoral Symposia where students are mentored by experienced Software Engineering professors. The SIGSOFT Webinar series remains very popular; in the past year, SIGSOFT organized 11 webinars with a total of 9,970 registrants and 4,725 attendees, of which 2,367 viewed the webinars live

**SIGSPATIAL -** Continuing the tradition, ACM SIGSPATIAL 2017 had a Cup programming contest, which focused on similarity search in databases of moving object trajectories under Frechet distance. The competition received 28 submissions and the teams totaled 68 members submitting formal entries. Three entries were selected as winners, and were additionally qualified for an invited paper, an oral presentation and award prizes during the banquet.

**SIGUCCS -** The Mentoring Program kicked off its 6th annual cohort in December 2017. SIGUCCS is committed to developing IT Service and Support professionals. We started the mentoring program in 2012 to pair service professionals together for 1 year to learn and grow. An advisory team administers the program and provides support for mentor pairs. We pair professionals with individuals who work at similar institutions in similar jobs or who have similar development interests. The expectation is that mentors and mentees communicate once a month about professional development topics. This program runs from January through October. There are 36 participants this year. At the end of the program, mentors and mentees celebrate at a networking event during the annual conference.

**SIGWEB -** In 2016, we also started a program of grass-roots events, in which SIGWEB provides support for local meetings that have a potential for growing into major SIG activities. The goal of these events is to enable individual SIGWEB members to expand the reach and influence of the SIG and to stimulate a path for further SIG growth. If you are interested in hosting such an event, please contact Yeliz Yesilada for details. Note that while we are flexible in the types of events that we will support, SIGWEB is *not* in a position to support individual research activities directly. We are interested in helping with dissemination activities that highlight results from research and practice activities across our membership. Over 2017, it is clear that some extra attention could be given to this distributed-activities program. Our members may be reaching saturation with respect to the events that they can attend and still have time to research new problems.

**Volunteer Development**

**SIGCSE –** SIGCSE's volunteers are recruited at conferences, on the SIGCSE listserv, and through annual articles in the SIGCSE Bulletin. Board members all attend the annual SIGCSE Symposium and encourage attendees to consider volunteering in some way. At sigcse.org there is a volunteer signup page with a list of possible SIGCSE positions, and whenever possible new volunteers are chosen from this list. Volunteers for a particular role are trained by the person previously in that role. Many of our positions are overlapping rotating positions such as for the SIGCSE Bulletin where two people work together, one experienced and one new.

**SIGGRAPH -** Volunteer development is a continuing issue for all aspects of the organization. We have initiated a new recruitment effort for the organization but it is clear that much more needs to be done to ensure a robust and diverse volunteer base. The jobs have a tendency to grow without bound and we turn to the same volunteers repeatedly.

**SIGEcom -** SIGecom’s volunteer development is extremely strong. Many dozens of people serve across a wide range of roles: in the conference organization committee; organizing committees for our various workshops; tutorial presenters; workshop panelists; TEAC editors in chief and associate editors; SIGecom Exchanges editors; SIG executive; three best paper award committees; a wide variety of ad hoc committees and special-topic volunteer roles. We are extremely conscious of diversity—particularly, but not limited to, diversity across research areas, gender, and countries of origin—and have been very successful in ensuring that our volunteer leaders are diverse, reflective of the community at large, and top-caliber researchers without exception. SIGITE - SIGITE continues to have an atmosphere of contribution amongst its members. Finding volunteers for various activities has never been a problem. We continue to use our standing and ad hoc committees as opportunities for members to “get a taste” of leadership.

**SIGWEB** - SIGWEB realizes that involving volunteers in SIG activities is a non-trivial task. Many of our members have been with the community for many years and have become accustomed to operating within a ‘well-oiled’ environment. At the SIG business meetings held at each of our fully-supported conferences, it is clear that motivating our membership to take leadership roles is both an opportunity and a challenge.

The primary road that we offer for volunteer involvement is through the organization of our conferences and symposia. For Hypertext and DocEng (two of our three 100% supported conferences), strong mechanisms are in place to help ensure long-term viability. For WebScience, which is supported for 100% by SIGWEB but managed together with the Web Science Trust, concerted attention will be required to help with long-term planning and organization. Our co-sponsored conferences (CIKM, JCDL, WISDM) are mature conference support structures are in place, in cooperation with SIGIR, SIGCHI and IEEE.