A Profile of SIGITE/RIIT Authors, 2nd Ed.

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ABSTRACT

The Special Interest Group in IT Education (SIGITE) was formed in 2003 and includes an annual conference, paper proceedings and poster presentations. Many authors and presenters from the first conference have continued to regularly publish in SIGITE and the community has continued to grow since this time.

In this paper we performed an updated study [1] of SIGITE authors and their institutions. We have identified the number of publications by year and venue, and identified top contributing authors and institutions.

In addition to presenting and discussing our findings, we are making a spreadsheet of raw data available for further analysis and research.

1 Introduction

The first SIGITE conference with published proceedings and peer-reviewed contributed papers was held in 2003. Since then, SIGITE has been held yearly, with an average of 52 papers accepted for both session and poster presentations per year.

In 2012, RIIT was created to provide a more relevant outlet for the increasing number of research papers in Information Technology. From 2012 until 2017, RIIT was held annually with SIGITE. RIIT was discontinued in 2018. This paper presents a profile of the 890 papers and posters accepted for these conferences over the past 17 years.

2 Purpose and Method

The motivation of this paper is to help SIGITE learn more about its constituents, to enable SIGITE to better serve them in

organizing its conferences, venues, and all plans pertaining to future conferences and related matters.

The SIGITE and RIIT conference proceedings from 2003 to 2016 [2,3,4,5,6,7,8,9,10,11,12,13,14] were used as the source for the 2016 paper, and the subsequent SIGITE and RIIT proceedings [15,16,17,18] were used for this updated version. Accepted papers were entered into a spreadsheet with the title of each paper, the authors, the institution of each author, and whether the paper was accepted as a session or poster paper.

Year	Location	Desig-nation	Session Papers	Poster Papers	Light-ning Talks
2003	Lafayette, IN	SIGITE	50	0	0
2004	Salt Lake City, UT	SIGITE	49	18	0
2005	Newark, NJ	SIGITE	59	12	0
2006	Minneapolis, MN	SIGITE	30	0	0
2007	Destin,FL	SIGITE	46	0	0
2008	Cincinnati, OH	SIGITE	40	7	0
2009	Fairfax, VA	SIGITE	39	3	0
2010	Midland, MI	SIGITE	27	5	0
2011	West Point, NY	SIGITE	49	12	0
2012	Calgary, Alberta	SIGITE /RIIT	50	6	0
2013	Orlando, FL	SIGITE /RIIT	42	18	0
2014	Atlanta, GA	SIGITE /RIIT	41	6	5
2015	Chicago, IL	SIGITE /RIIT	35	6	8
2016	Boston, MA	SIGITE /RIIT	35	10	10
2017	Rochester, NY	SIGITE /RIIT	29	12	9
2018	Ft. Lauder-dale, FL	SIGITE	22	17	23
2019	Tacoma, WA	SIGITE	22	19	21

Table 1: **Summary of SIGITE and RITT Conference for 17 years of conferences for the session papers, poster papers, and lightning talks. There has been a total of 665 session papers, 151 poster papers, and 76 lightning talks since the first SIGITE conference.**

3. Results

3.1 Results – Authors

As mentioned in the Introduction, there have been a total of 960 papers (including all types) accepted for publication and presentation at the SIGITE and RIIT conferences held since the first SIGITE conference in 2003. These 960 papers were comprised of 665 session papers, 151 posters, 5 special sessions, 9

Name	Institution	Author Position	Papers Authored
Barry M. Lunt	BYU	1, 2, 3, 4	25
Rebbeca Rutherfoord	SPSU, Kennesaw State Univ	1, 2, 3, 5	23
Joseph J. Ekstrom	BYU	1, 2, 3	21
Russell McMahon	Univ of Cincinnati	1, 2, 4, 13	18
Gregory W. Hislop	Drexel Univ	1, 2, 3	17
Amber Settle	DePaul Univ	1, 2, 4	17
Han Reichgelt	Georgia Southern U	1, 2, 3, 4	16
Lei Li	Kennesaw State Univ, SPSU	1, 2, 3	15
Mihaela Sabin	Univ of New Hampshire	1, 2, 3, 4	15
Sandra Gorka	Penn College of Tech	1, 2, 4	14
Richard G. Helps	BYU	1, 3	14
Chi Zhang	Kennesaw State Univ, SPSU	1, 2, 3, 4, 6	14
Heidi J.C. Ellis	Western New England Univ	1, 2, 3, 5	13
Edward P. Holden	Rochester IT	1, 2, 3, 4	13
Mark Stockman	Univ of Cincinnati	1, 2, 3, 5, 6	13
Bryan Goda	US Military Acad; Univ of Wash Tac	1, 2, 3, 4, 5	12
Jacob R. Miller	Penn College of Tech	2, 3	11
Dale C. Rowe	BYU	1, 2, 3, 4	11
Diane P. Bills	Rochester IT	1, 2, 3, 4	9
Soleda T. Leung	Univ of Cincinnati	1, 2, 3, 11	9
Svetlana Peltsverger	SPSU	1, 2, 3	9

workshops, 2 birds-of-a-feather sessions, 42 panels, 10 keynote speakers, and 76 lightning talks.

3.2 Results – Authors

There have been 1269 unique authors who have contributed to papers in SIGITE and RIIT. The complete table is too long to be included, but can be found at http://www.et.byu.edu/~luntb/SIGITE/authors.xlsx.

Name	Institution	Author Position	Papers Authored
Ye Diana Wang	George Mason U	1	9
Stephen J. Zilora	Rochester IT	1, 2, 3, 4	9
Deborah Boisvert	U Mass-Boston	1, 2	8
Randy Connolly	Mount Royal Univ	1, 2,3	8
Ilenia Fronza	Free Univ of Bozen-Bolzano	1, 2	8
Jai W. Kang	Rochester IT	1, 2	8
Susan L. Miertschin	Univ of Houston	1, 2	8
Amos Olagunju	St. Cloud State Univ	1, 2, 4	8
Hazem Said	Univ of Cincinnati	1, 2, 3, 4, 6	8
Yong Zheng	Illinois Institute of Tech	1, 3	8
Melissa J. Dark	Purdue Univ	1, 2,3	7
Alessio Gaspar	Univ of South Florida in Lakeland	1, 2, 3, 4	7
Keyuan Jiang	Purdue Univ Calumet	1, 3, 4	7
Tae H. Oh	Rochester IT	1, 2, 3, 4	7
G.W. Romney	BYU	1, 2	7
James K. Rutherfoord	Chattahoochee Technical College	2, 5	7
Edward Sobiesk	US Military Acad	1, 2, 3, 4, 8	7
Bill Stackpole	Rochester IT	1, 2, 3, 4	7
Arto Vihavainen	Univ of Helsinki	1, 2, 3, 4	7
Cheryl L. Willis	Univ of Houston	1, 2, 4	7
Baijian Yang	Purdue Univ	1, 2, 3, 4	7

Table 2: Summary of Top Authors for SIGITE/RIIT

Table 2 gives the top author contributors over the history of SIGITE and RIIT, down to those who have contributed to seven papers or more. Included are the institutions to which they have belonged, and the author positions they have occupied (first author, second author, etc.). Those who have been regular attenders at SIGITE/RIIT will recognize many of these names, and we acknowledge their many and significant contributions to these conferences.

Another way to look at all the authors for SIGITE/RIIT papers is to look at how many authors have contributed to how many papers; this information is summarized in Table 3. For example, 940 of the 1269 unique authors who have contributed to SIGITE and RIIT have authored only one paper; conversely, only one author has contributed 25 papers (see Table 3).

# of Authors	# of Papers Authored
940	1
161	2
54	3
30	4
28	5
14	6
11	7
8	8
5	9
0	10
2	11
1	12
3	13
3	14
2	15
1	16
2	17
1	18
1	21
1	23
1	25

Table 3: Number of Authors who have authored the given number of papers at SIGITE/RIIT

3.3 Results – Institutions

First authors who have published in SIGITE and RIIT have come from 263 institutions. A complete listing of these institutions is too long for this paper, but may be found at: http://www.et.byu.edu/~luntb/SIGITE/institutions.xlsx. As many attendees know, there are some institutions which are particularly active in these conferences. Table 4 lists the institutions providing the most first authors, from the top down to those providing 5 first authors. In Table 4, we see that the top 10 institutions (those with 19 or more first authors) account for 360 of the first authors at SIGITE/RIIT. It is also of interest to note that there have been 163 institutions that have provided one first author.

Institution	# of Papers
BYU	174
Rochester IT	170
Purdue Univ	104
Univ of Cincinnati	102
Kennesaw State Univ	89
US Military Acad	83
SPSU	69
Illinois Institute of Tech	52
Penn College of Technology	41
DePaul Univ	37
East Carolina Univ	37
Georgia Southern Univ	37
Michigan Technological Univ	37
George Mason Univ	36
Univ of Washington Tacoma	35
Mount Royal Univ	32
Purdue Univ, Calumet	31
Univ of New Hampshire	28
Capella Univ	25
Drexel Univ	24
Univ of Helsinki	23
Georgia Gwinnett Coll	22
Western New England College	21
Univ of Houston	20
Univ of Mass at Boston	20
Free Univ of Bozen-Bolzano	19
Penn State Univ	18
NJIT	17
Armstrong Atlantic State Univ	16
Central Michigan Univ	16
Lamar Univ	15
Univ of the East Philippines	15
Universidad El Bosque	15
King Saud Univ	13
Univ of Central Florida	13
Southern Illinois Univ	12
UC Berkeley	12
Fairmont State Univ	11
La Salle Univ	11
Northern Kentucky Univ	10
Nova Southeastern Univ	10
Penn State Worthington Scranton	10

Table 4: Institutions with the most papers in SIGITE/RIIT

3.3 Results – Submissions

Unfortunately, for the first two years of the conference (2003, 2004) the data for session paper submissions numbers has been lost. Since that time, we have a complete record of the total number of submissions as well as our acceptance rate, Table 5.

Looking at the numbers of submissions over the years, they began with volatility in the first three years, then had a number of years of relative stability, but have shown a small but noticeable decline in the past 5 years.

Year	# Submissions (Papers)	# Accepted (Papers)	Acceptance Rate
2005	130	81	62.3%
2006	36	25	69.4%
2007	102	42	41.2%
2008	76	39	51.3%
2009	78	39	50%
2010	70	34	48.6%
2011	95	49	51.6%
2012*	87	49	56.3%
2013*	94	40	42.6%
2014*	95	41	43.2%
2015*	80	34	42.5%
2016*	87	35	40.2%
2017*	69	29	40.0%
2018	59	24	40.7%
2019	57	23	40.4%
* SIGITE/RIIT Combined			

Table 5: Submissions Summary, SIGITE/RIIT, 2005-2019

3.3 Results – Presentations

Considering the slight decline of session paper submissions in the past few years, along with the desire of the community to keep the acceptance rate around 40%, it could be confusing to note that the total number of presentations has been on the increase during that same time period. It is also of note that the number of lightning talks and poster presentations has steadily risen in that same period.

As the conference balances its needs of attracting participants by running a full and exciting conference program of presentations, as well as the authors need of keeping a lower acceptance rate, the balance of increasing the numbers of lightning talks and poster presentations has been key in increasing the overall number of total presentations at the conference.

4 Recommendations

While the results of this paper cannot be construed as definitive, through the time spent in the conference, the ACM SIG board Aand being SIGITE Conference Chairs, the authors feel that there is enough evidence to offer some recommendations.
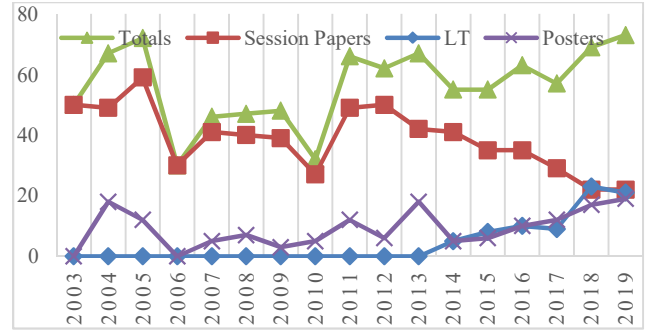

Chart 1: Presented Articles (Total Presentations, Session Papers, Lightning Talks, Posters)

Over the past few years, there has been a movement by the conference program chairs to see if the authors of unaccepted (yet, still appropriate) papers would be agreeable to participating in the conference as either a Lightning Talk or a Poster. This movement has resulted in keeping total participation (articles presented as well as total number of attendees) high in the face of lower paper submission numbers while keeping the acceptance rate at forty percent. We feel this approach keeps the conference filled with meaningful contributions and strengthens it as a venue for faculty publication, and we recommend this practice continue.
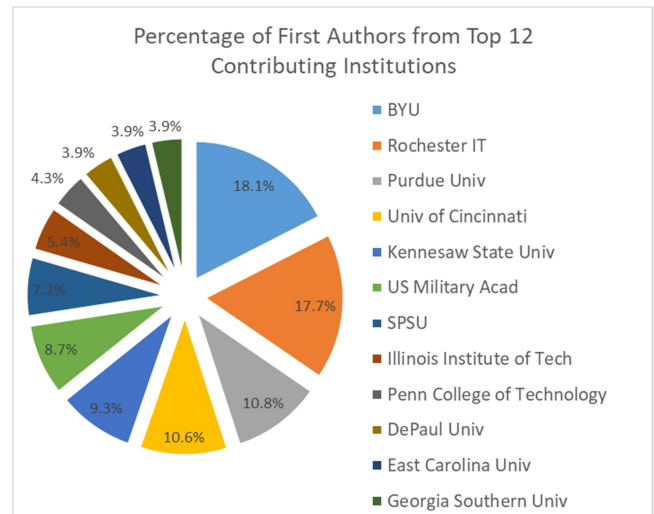

Chart 2: Percentage of First Authors from Top 12 Contributing Institutions

5 Conclusion

Our findings show that 44.37% of contributing institutions have provided a single paper to SIGITE and RIIT, while 10.3% of contributing institutions have provided 10 or more papers.

In our analysis of institutions, BYU and RIT lead in number of publications, with 14.3% of all published papers coming from these institutions. Out of all 406 contributing institutions, the average number of papers per institution is 5.9, with 42 institutions publishing 10 or more papers since 2003.

The data indicates that while SIGITE/RIIT are broad in the number of institutions and authors, there is a clear driving body of participants who regularly support IT education and research.

An analysis of both authors and institutions show several participants who have commenced publications in SIGITE/RIIT after 2003. This is significant as it indicates new blood in the SIGITE community and provides reassurances as to both the longevity and significance of IT as an academic discipline.

We wish to thank all those who have chosen to share their contributions and research to the SIGITE community.

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