

## SIGACT

### Name and Mission:

SIGACT: SIGACT Algorithms & Computation Theory

The primary mission of ACM SIGACT (Association for Computing Machinery Special Interest Group on Algorithms and Computation Theory) is to foster and promote the discovery and dissemination of high quality research in the domain of theoretical computer science. The field of theoretical computer science is interpreted broadly so as to include algorithms, data structures, complexity theory, distributed computation, parallel computation, VLSI, machine learning, computational biology, computational geometry, information theory, cryptography, quantum computation, computational number theory and algebra, program semantics and verification, automata theory, and the study of randomness. Work in this field is often distinguished by its emphasis on mathematical technique and rigor.

### Newsletters:

	Volume	Issue	Issue Date	Number of Pages	Received at HQ
<b>2010</b>					
	41	01	March 2010	132	19-Feb-10
<b>2009</b>					
	40	04	December 2009	128	14-Nov-09
	40	03	September 2009	104	N/A
	40	02	June 2009	100	20-May-09
	40	01	March 2009	68	13-Feb-09
<b>2008</b>					
	39	04	December 2008	80	N/A
	39	03	September 2008	128	20-Aug-08
	39	02	June 2008	128	04-Jun-08
	39	01	March 2008	96	27-Feb-08
<b>2007</b>					
	38	04	December 2007	72	28-Nov-07
	38	03	September 2007	144	20-Aug-07
	38	02	June 2007	96	21-May-07
	38	01	March 2007	72	20-Feb-07
<b>2006</b>					
	37	04	December 2006	144	15-Nov-06
	37	03	September 2006	112	18-Aug-06
	37	02	June 2006	80	01-Aug-06
	37	01	March 2006	112	23-Feb-06

### Membership:

Year	Professional	Affiliate	Student	Designee	Total	Subscribers	1st Year Retention	2 + Years Retention	Total Retention
JUNE 2009	1303	163	163	2	1,631	110	47.3	87.38	76.15
JUNE 2008	1350	170	158	2	1,680	114	47.8	88.79	76.72
JUNE 2007	1287	178	170	2	1,637	117	39.8	68.55	71.3
JUNE 2006	1317	197	197	3	1,714	116	47.3	86.25	73.41

### Fund Balance:

Year	Amount	Required	Delta	Discretionary	Discretionary Per Member
JUNE 2009	\$743,628	\$134,969	\$65,238	\$608,659	\$373.00
JUNE 2008	\$678,390	\$79,840	\$48,148	\$598,550	\$356.00
JUNE 2007	\$630,242	\$106,597	\$38,125	\$523,645	\$320.00
JUNE 2006	\$592,117	\$104,758	\$16,811	\$487,359	\$284.00

### Conferences:

#### Sponsored

PODC '10 - ACM Symposium on Principles of Distributed Computing

Zurich , Switzerland 07/25/10 07/28/10 Sponsor: Attendance: 0 Surplus/(loss): \$0.00 Papers: / PAF Endorsed  
50%

SPAA 10 - 22nd ACM Symposium on Parallelism in Algorithms and Architectures

Thira, Santorini , 06/13/10 06/15/10 Sponsor: Attendance: 0 Surplus/(loss): \$0.00 Papers: / ACM/SIG Approval Acknowledge  
Greece - 50% Granted

SoCG '10 - Symposium on Computational Geometry							
Salt Lake City , UT	06/13/10	06/16/10	Sponsor: 50%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	ACM/SIG Approval Acknowledge Granted
STOC'10 - Symposium on Theory of Computing Conference							
Cambridge , MA	06/06/10	06/08/10	Sponsor: 100%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	ACM/SIG Approval Acknowledge Granted
SPAA 09 - 21st ACM Symposium on Parallelism in Algorithms and Architectures							
Calgary , AB	08/11/09	08/13/09	Sponsor: 50%	Attendance: 32	Surplus/(loss): \$21,053.00	Papers: 114/35	ACM/SIG Approval Acknowledge Granted
PODC '09 - ACM Symposium on Principles of Distributed Computing							
Calgary , AB	08/10/09	08/12/09	Sponsor: 50%	Attendance: 67	Surplus/(loss): \$31,966.00	Papers: 110/27	ACM/SIG Approval Acknowledge Granted
STOC '09 - Symposium on Theory of Computing Conference							
Bethesda , MD	05/31/09	06/02/09	Sponsor: 100%	Attendance: 263	Surplus/(loss): \$11,265.00	Papers: 329/77	Closed
DIAL M-POMC '08 - 5th International Workshop on Foundations of Mobile Computing							
,	08/22/08	08/22/08	Sponsor: 50%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Closed
CONCUR08 - 19th International Conference on Concurrency Theory							
Toronto, Ontario , Canada	08/19/08	08/22/08	Sponsor: 50%	Attendance: 95	Surplus/(loss): \$2,401.00	Papers: /	Closed
PODC '08 - ACM Symposium on Principles of Distributed Computing							
Toronto , Canada	08/18/08	08/21/08	Sponsor: 50%	Attendance: 152	Surplus/(loss): \$5,567.00	Papers: 132/40	Closed
SPAA08 - 20th ACM Symposium on Parallelism in Algorithms and Architectures							
Munich , Germany	06/14/08	06/16/08	Sponsor: 50%	Attendance: 83	Surplus/(loss): (\$851.00)	Papers: 128/36	Closed
SoCG08 - 24th Annual Symposium on Computational Geometry							
College Park , MD	06/09/08	06/11/08	Sponsor: 50%	Attendance: 131	Surplus/(loss): \$3,042.00	Papers: 130/42	Closed
STOC '08 - Symposium on Theory of Computing Conference 2008							
Victoria , Canada	05/17/08	05/20/08	Sponsor: 100%	Attendance: 246	Surplus/(loss): \$11,185.00	Papers: 325/80	Closed
Dial M - POMC - Joint Workshop on Foundations of Mobile Computing							
,	08/16/07	08/16/07	Sponsor: 50%	Attendance: 18	Surplus/(loss): \$873.96	Papers: /	Closed
LOCALITY07 - 2nd Workshop on Locality Preserving Distributed Computing Methods							
,	08/16/07	08/16/07	Sponsor: 50%	Attendance: 0	Surplus/(loss): \$980.68	Papers: /	Closed
TRANSACTION07 - Workshop on Languages, Compilers, and Hardware Support for Transactional Computing							
,	08/16/07	08/16/07	Sponsor: 50%	Attendance: 51	Surplus/(loss): \$1,645.18	Papers: /	Closed
PODC07 - ACM Symposium on Principles of Distributed Computing 2007							
Portland , OR	08/12/07	08/15/07	Sponsor: 50%	Attendance: 136	Surplus/(loss): \$6,591.00	Papers: 204/32	Closed
COLT07 - The 20th Annual Conference on Computation Learning Theory (co-located with FCRC 2007)							
San Diego , CA	06/13/07	06/15/07	Sponsor: 50%	Attendance: 96	Surplus/(loss): (\$553.00)	Papers: /	Closed
STOC07 - Symposium on Theory of Computing Conference (co-located with FCRC 2007 Conference)							
San Diego , CA	06/11/07	06/13/07	Sponsor: 100%	Attendance: 303	Surplus/(loss): \$14,643.00	Papers: 312/77	Closed

SPAA07 - 19th ACM Symposium on Parallelism in Algorithms and Architectures (co-located with FCRC 2007)

San Diego , CA	06/09/07	06/11/07	Sponsor: 50%	Attendance: 94	Surplus/(loss): \$4,129.00	Papers: 204/46	Closed
----------------	----------	----------	--------------	----------------	----------------------------	----------------	--------

**InCooperation**

The 38th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages

Austin , TX	01/19/11	01/21/11	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
-------------	----------	----------	-------------	---------------	------------------------	-----------	------

International Conference on Advances in Communication, Network, and Computing

Calicut , India	09/22/10	09/23/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
-----------------	----------	----------	-------------	---------------	------------------------	-----------	------

International Workshop on Large Scale Distributed Systems and Middleware

Zurich , Switzerland	07/28/10	07/29/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
----------------------	----------	----------	-------------	---------------	------------------------	-----------	------

International Workshop on Large Scale Distributed Systems and Middleware

Zurich , Switzerland	07/28/10	07/29/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
----------------------	----------	----------	-------------	---------------	------------------------	-----------	------

Types in Language Design and Implementation

,	01/23/10	01/23/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
---	----------	----------	-------------	---------------	------------------------	-----------	------

Types in Language Design and Implementation

,	01/23/10	01/23/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
---	----------	----------	-------------	---------------	------------------------	-----------	------

Declarative Aspects of Multicore Programming

,	01/19/10	01/19/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
---	----------	----------	-------------	---------------	------------------------	-----------	------

Declarative Aspects of Multicore Programming

,	01/19/10	01/19/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
---	----------	----------	-------------	---------------	------------------------	-----------	------

ACM SIGPLAN Workshop on Programming Languages meets Program Verification

,	01/19/10	01/19/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
---	----------	----------	-------------	---------------	------------------------	-----------	------

19th International Workshop on Functional and (Constraint) Logic Programming

,	01/17/10	01/17/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Open
---	----------	----------	-------------	---------------	------------------------	-----------	------

The 37th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages

Madrid , Spain	01/17/10	01/23/10	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: 207/39	Open
----------------	----------	----------	-------------	---------------	------------------------	----------------	------

International Conference on Advances in Recent Technologies in Computing

Trivandrum , India	11/27/09	11/28/09	Sponsor: 0%	Attendance: 300	Surplus/(loss): \$10,000.00	Papers: /	Closed
--------------------	----------	----------	-------------	-----------------	-----------------------------	-----------	--------

9th Hellenic European Research on Computer Mathematics and its Applications Conference

Athens , Greece	09/24/09	09/26/09	Sponsor: 0%	Attendance: 400	Surplus/(loss): \$0.00	Papers: /	Closed
Principles and Practice of Programming in Java							
Alberto , Canada	08/27/09	08/28/09	Sponsor: 0%	Attendance: 60	Surplus/(loss): \$1,600.00	Papers: -9/-9	Closed
25th Annual Symposium on Computational Geometry							
Aarhus , Denmark	06/08/09	06/10/09	Sponsor: 0%	Attendance: 140	Surplus/(loss): \$0.00	Papers: 170/44	Closed
International Symposium on Practical Aspects of Declaritive Languages							
Savannah , GA	01/19/09	01/20/09	Sponsor: 0%	Attendance: 38	Surplus/(loss): \$4,268.79	Papers: /	Closed
The 36th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages							
Savannah , GA	01/18/09	01/24/09	Sponsor: 0%	Attendance: 259	Surplus/(loss): \$27,329.33	Papers: 160/36	Closed
19th ACM-SIAM Symposium on Discrete Algorithms							
San Francisco , CA	01/20/08	01/22/08	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Closed
30 Years of Abstract Interpretation (30YAI)							
,	01/08/08	01/08/08	Sponsor: 0%	Attendance: 84	Surplus/(loss): (\$8,039.01)	Papers: /	Closed
Using Proof Assistants for Programming Language Research____ ( _PAPL/COQ_ )							
,	01/08/08	01/08/08	Sponsor: 0%	Attendance: 73	Surplus/(loss): (\$3,115.30)	Papers: /	Closed
The 35th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages							
San Francisco , CA	01/07/08	01/12/08	Sponsor: 0%	Attendance: 318	Surplus/(loss): \$25,764.28	Papers: 212/35	Closed
8th Hellenic European Research on Computer Mathematics and its Applications Conference							
Athens , Greece	09/20/07	09/22/07	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: /	Closed
IEEE Conference on Computational Complexity (co-located with FCRC 2007)							
San Diego , CA	06/13/07	06/16/07	Sponsor: 0%	Attendance: 85	Surplus/(loss): \$5,634.00	Papers: /	Closed
23rd Annual Symposium on Computational Geometry							
Gyeongju , South Korea	06/06/07	06/08/07	Sponsor: 0%	Attendance: 0	Surplus/(loss): \$0.00	Papers: 139/45	Closed
The 34th Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages							
Nice , France	01/17/07	01/19/07	Sponsor: 0%	Attendance: 258	Surplus/(loss): \$7,238.17	Papers: 198/36	Closed

---

**Officers:**

**SIG Chair**

(01-Jul-09 - 30-Jun-12) Lance Fortnow (Elected)

**SIG Vice Chair**  
 (01-Jul-09 - 30-Jun-12) Michael Mitzenmacher (Elected)

**SIG Conference Approver**  
 (01-Jul-09 - 30-Jun-12) Lance Fortnow (Appointed)

**SIG Secretary/Treasurer**  
 (01-Jul-09 - 30-Jun-12) Anna Lysyanskaya (Elected)

**SIG Member at Large**  
 (01-Jul-09 - 30-Jun-12) Cynthia Dwork (Elected)  
 (01-Jul-09 - 30-Jun-12) Michael E Saks (Elected)

**SIG Past Chair**  
 (01-Jul-09 - 30-Jun-12) Richard E Ladner (Appointed)

**SIG Newsletter Editor**  
 (01-Jul-08 - 31-Dec-12) Brendan Mumey (Appointed)

**SIG Chair**  
 (01-Jul-07 - 30-Jun-09) Richard E Ladner (Extended)  
 (01-Jul-05 - 30-Jun-07) Richard E Ladner (Elected)

**SIG Vice Chair**  
 (01-Jul-07 - 30-Jun-09) Lance Fortnow (Extended)  
 (01-Jul-05 - 30-Jun-07) Lance Fortnow (Elected)

**SIG Conference Approver**  
 (01-Jul-07 - 30-Jun-09) Richard E Ladner (Appointed)

**SIG Secretary/Treasurer**  
 (01-Jul-07 - 30-Jun-09) Richard Cole (Extended)  
 (01-Jul-07 - 30-Jun-09) Richard J Cole (Extended)  
 (01-Jul-06 - 30-Jun-07) Richard Cole (Elected)  
 (01-Jul-05 - 30-Jun-06) Eva Tardos (Elected)

**SIG Member at Large**  
 (01-Jul-07 - 30-Jun-09) Joan Feigenbaum (Extended)  
 (01-Jul-07 - 30-Jun-09) Eva Tardos (Extended)  
 (01-Jul-06 - 30-Jun-07) Eva Tardos (Elected)  
 (01-Jul-05 - 30-Jun-07) Joan Feigenbaum (Elected)  
 (01-Jul-05 - 30-Jun-06) Richard Cole (Elected)

**SIG Past Chair**  
 (01-Jul-07 - 30-Jun-09) Harold N Gabow (Appointed)  
 (01-Jul-05 - 30-Jun-07) Harold N Gabow (Appointed)

**SIG Newsletter Editor**  
 (01-Jan-06 - 30-Jun-08) Rockford J Ross (Appointed)

---

**Awards:**

<b>Award</b>	<b>Description</b>
Danny Lewin Best Student Paper	Awarded at the STOC Conference from student papers submitted to conf. \$500 and no travel \$ (renamed 2002)
Knuth Prize	Awarded every 1.5 years with IEEE TCMFC for Outstanding Contributions alternately at STOC and FOCS; \$5000 and \$1000 for travel
Service Prize	Awarded bi-annually (changed from annually in 2002) for outstanding contributions of service to SIGACT; given at STOC; \$1000/\$500 for travel

SIGACT/SIGOPS Edsger W. Dijkstra Prize in Distributed Computing	Given at each PODC to an outstanding paper on the principles of distributed computing, whose significance and impact on the theory and/or practice of distributed computing has been evident for at least a decade. The winning authors will share a cash award of \$1,000, and each will be presented with a plaque at the PODC business meeting.
SIGACT Godel Prize	Awarded annually for an outstanding paper (or collection of papers) in the area of theoretical computer science that appeared in a journal during the previous fourteen years. The award includes a prize of \$5,000. Sponsored jointly with the European Association for Theoretical Computer Science. Presented alternately at the ACM Symposium on Theory of Computing and the International Conference on Automata, Languages, and Programming.

---

#### Viability:

Viability Report Date	Result
February 10, 2006	Found viable
February 23, 2002	Found viable as a multi-service SIG
March 01, 1998	Found Viable as a multi-service SIG.
March 01, 1994	Viable as a multi-service SIG
August 01, 1993	Viability approved
August 01, 1989	Viability approved

---

#### Annual Report Submission:

Year	Response	Note
FY 2001	Yes	
FY 2002	Yes	
FY 2003	Yes	
FY 2004	Yes	
FY 2005	Yes	
FY 2006	Yes	
FY 2007	Yes	
FY 2008	Yes	
FY 2009	Yes	

---

#### SGB Meeting Attendance:

Year	Response	Note
OCT 99	Yes	
FEB 00	Yes	
OCT 00	No	
MAR 01	Yes	
AUG 01	Yes	
FEB 02	Yes	
SEP 02	Yes	
MAR 03	Yes	
SEP 03	Yes	
MAR 04	Yes	
OCT 04	Yes	
MAR 05	Yes	
AUG 05	Yes	
FEB 06	Yes	
OCT 06	Yes	
FEB 07	Yes	
JUL 07	Yes	
FEB 08	Yes	
SEP 08	Yes	
MAR 09	Yes	
OCT 09	Yes	

---

#### Benefits:

##### 2010

##### Member Benefits provided to SIGACT Members:

- Newsletter- SIGACT News, quarterly, print & online subscriptions
- Access to all SIGACT material in the Digital Library
- Reduced registration rates at SIGACT-sponsored conferences, and others such as FOCS
- Reduced rate for membership in EATCS (European Association for Theoretical Computer Science)
- Notification of conferences, through mail and the SIGACT electronic member mailing list
- Distinguished Service Award
- Member Plus packages: SPAA, POPL, STOC, SOCG

**Community Benefits provided by SIGACT:**

- SIGACT web site
  - Theorynt listsrv management
  - SIGACT Conference Management Software
  - Conference sponsorships: PODC, SOCG, SPAA, STOC
  - In-cooperation conferences: PODS, SODA, FOCS, POPL, HERCMA
  - Awards and grants: STOC Danny Lewin Best Student Paper Award, COLT Best Student Paper Award, Gödel Prize (w/EATCS), Knuth Prize (w/IEEE TCMFC), Paris Kanellakis Award (w/ACM), Lawler Humanitarian Award (w/ACM), Dijkstra Prize (w/SIGOPS), SODA Best Student Paper Award, STOC Student Travel Awards, STOC Developing Country Researcher Awards, STOC Best Paper Award, Student and third world travel support for FOCS and SODA
  - Support for the SIGACT Committee for the Advancement of Theoretical Computer Science
-