



**Submission Data for 2020-2021 CORE conference Ranking process
Static Analysis Symposium**

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Conference Details

Conference

Title: Static Analysis Symposium
Acronym : SAS
Rank: A

Data and Metrics

Google Scholar Metrics

ACM Metrics

Is an ACM sponsored conference: True
Providing ACM Stats: True

ACM Statistics

ACM Most frequently publishing



Aminer Rank

Aminer Rank: 31
Name in Aminer: International Static Analysis Symposium
Acronym or Shorthand: SASh-5
Index: 15
CCF: BTHU: -
Top Aminer Cites: http://portal.core.edu.au/core/media/conf_submissions_citations/extra_info1903_aminer_top_cite.png

Publications

Top Clited	Authors	Affiliations
		Browse by Citation
1	Using Slicing to Identify Duplication in Source Code	Cited by 546
	Raghavan Komondoor, Susan Horwitz (2001)	
2	Precise analysis of string expressions	Cited by 490
	Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach (2003)	
3	Comparison of the Galois Connection and Widening/Narrowing Approaches to Abstract Interpretation	Cited by 414
	Patrick Cousot, Radhia Cousot (1991)	
4	Secure information flow as a safety problem	Cited by 308
	Tachio Terauchi, Alex Aiken (2005)	
5	TVLA: A System for Implementing Static Analyses	Cited by 299
	Tal Lev-Ami, Shmuel Sagiv (2000)	
6	Polymorphic Type, Region and Effect Inference	Cited by 299
	Jean-pierre Talpin, Pierre Jouvelot (1992)	
7	Type Analysis for JavaScript	Cited by 283
	Simon Holm Jensen, Anders Møller, Peter Thiemann (2009)	
8	Verification of Linear Hybrid Systems by Means of Convex Approximations	Cited by 249
	Nicolas Halbwachs, Yann-eric Proy, Pascal Raymond (1994)	
9	Checking interference with fractional permissions	Cited by 247
	John Boyland (2003)	
10	Cache Behavior Prediction by Abstract Interpretation	Cited by 214
	Martin Alt, Christian Ferdinand, Florian Martin, Reinhard Wilhelm (1996)	
11	Weighted pushdown systems and their application to interprocedural dataflow analysis	Cited by 206
	Thomas W. Reps, Stefan Schwoon, Suresh Jha, David Melski (2005)	
12	From Secrecy to Authenticity in Security Protocols	Cited by 187
	Bruno Blanchet (2002)	
13	Static Analyses for Eliminating Unnecessary Synchronization from Java Programs	Cited by 165
	Jonathan Aldrich, Craig Chambers, Emin Gün Sirer, Susan J. Eggers (1999)	
14	A Formal Study of Slicing for Multi-threaded Programs with JVM Concurrency Primitives	Cited by 155
	John Hatcliff, James C. Corbett, Matthew B. Dwyer, Stefan Sokolowski, Hongjun Zheng (2015)	

Publications

Top Clited	Authors	Affiliations
		Browse by Citation
1	Safety Verification and Refutation by k-Invariants and k-Induction	Cited by 41
	Martin Brain, Saurabh Joshi 0001, Daniel Kroening, Peter Schrammel (2015)	
2	Effective Soundness-Guided Reflection Analysis	Cited by 31
	Yue Li, Tian Tan, Jingling Xue (2015)	
3		

Other Rankings

URL: <https://ufm.dk/en/research-and-innovation/statistics-and-analyses/bibliometric-research-indicator/bfi-lists>

Description: We provide a link to the Danish bibliometric lists. Rankings are 2 (higher) or 1 (lower) (e.g., JACM is 2).

Computer science is group 38. SAS is line 13666.

SAS is rated level 2 which is the "high" level (top 20%, $\sim=A$). Level 3, the highest level ($\sim=A^{***}$) contains only 2% of publications (e.g., nature). Level 2 publications are worth 3 times more than level 1 in department and position evaluations, etc.

Rank: Level 2, top 20%

Conferences in area: 1. SAS 2. PLDI 3. POPL

We believe SAS is the premier conference in Static Analysis of Programs.

Top People Publishing Here

name: Thomas Henzinger

justification: Thomas Henzinger has an h-index=110

Paper counts:

Most Recent: None	Second most recent: None	Third most recent: None	Fourth most recent: 1	Fifth most recent: None
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Attendance: OCCASIONALLY

name: Rajeev Alur

justification: Rajeev Alur has an h-index=90

Paper counts:

Most Recent: None	Second most recent: 1	Third most recent: None	Fourth most recent: None	Fifth most recent: None
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Attendance: SOMETIMES

name: Thomas Reps

justification: Thomas Reps has an h-index=79

Paper counts:

Most Recent: None	Second most recent: None	Third most recent: 1	Fourth most recent: None	Fifth most recent: None
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Attendance: OFTEN

name: Mooly Sagiv

justification: Mooly Sagiv has an h-index=61

Paper counts:

Most Recent: None	Second most recent: 1	Third most recent: None	Fourth most recent: None	Fifth most recent: 5
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Attendance: ALWAYS

name: Kenneth McMillan

justification: Kenneth McMillan has an h-index=58

Paper counts:

Most Recent: None	Second most recent: 1	Third most recent: None	Fourth most recent: None	Fifth most recent: None
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Attendance: SOMETIMES

name: Patrick Cousot

justification: Patrick Cousot has an h-index=55

Paper counts:

Most Recent: 4	Second most recent: None	Third most recent: None	Fourth most recent: None	Fifth most recent: 1
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Attendance: ALWAYS

name: Daniel Kroening

justification: Daniel Kroening has an h-index=52

Paper counts:

Most Recent: None	Second most recent: None	Third most recent: None	Fourth most recent: None	Fifth most recent: 2
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Attendance: OFTEN

name: Hongseok Yang

justification: Hongseok Yang has an h-index=41

Paper counts:

Most Recent: 1	Second most recent: None	Third most recent: None	Fourth most recent: 1	Fifth most recent: 1
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Attendance: ALWAYS

name: Flemming Nielson

justification: Flemming Nielson has an h-index=43

Paper counts:

Most Recent: None	Second most recent: 1	Third most recent: None	Fourth most recent: 1	Fifth most recent: None
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Attendance: OFTEN

name: Sriram Sankaranarayanan

justification: Sriram Sankaranarayanan has an h-index=43

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
None	None	1	1	None

Attendance: OFTEN

Where People Publish

Top People Report

Method of selection: We took all the top researchers (h-index \geq 45) in "Program Analysis", Google Scholar query "label:program.analysis", then all the top researchers in "Abstract Interpretation", Google Scholar query "label:abstract.interpretation", and finally the first 7 (to complete the 20) from the top researchers in "Programming Languages", Google Scholar query "label:programming.languages" (eliminating those that have not published anything in the period, since the WPP tool does not consider them).

Note: Unfortunately the tool gives an error for Peter W. O'Hearn, who has published several times in SAS, even if we type the name exactly as in DBLP. This seems to be an error in either DBLP or WPP, which affects the SAS data.

Keyword: "label:program.analysis", then "label:abstract.interpretation", then "label:programming.languages"

name	h-index	gscholar url
Mark Harman	93	https://scholar.google.com/citations?user=IwSN8IgAAAAJ&hl=en
Thomas Ball	67	https://scholar.google.com/citations?user=d2f0VUQAAAAJ&hl=en
Vivek Sarkar	67	https://scholar.google.com/citations?user=XjeIqxYAAAAJ&hl=en
Andreas Zeller	61	https://scholar.google.com/citations?user=-Qytr_YAAAAJ&hl=en
Patrice Godefroid	60	https://scholar.google.com/citations?user=1bFun-AAAAAJ&hl=en
Koushik Sen	59	https://scholar.google.com/citations?user=Vn3L_ioAAAAJ&hl=en
Stéphane Ducasse	58	https://scholar.google.com/citations?user=7fHNqtoAAAAJ&hl=en
Mooly Sagiv	61	https://scholar.google.com/citations?user=j4UuW80AAAAJ&hl=en
Peter W. O'Hearn	45	https://scholar.google.com/citations?user=NonivoUAAAAJ&hl=en
Aarti Gupta	47	https://scholar.google.com/citations?user=S_jYB2sAAAAJ&hl=en
Mira Mezini	54	https://www.google.com/search?ion=1&q=google%20scholar%20Mira%20Mezini
Patrick Cousot	55	https://scholar.google.com/citations?user=mhIvI8wAAAAJ&hl=en
Manuel Hermenegildo	53	https://www.google.com/search?ion=1&q=google%20scholar%20Manuel%20Hermenegildo
Daniel G. Bobrow	88	https://scholar.google.com/citations?user=950EG6IAAAAAJ&hl=en
Tony C.A.R. Hoare	69	https://scholar.google.com/citations?user=v-YdOywAAAAJ&hl=en
Rajeev Alur	90	https://scholar.google.com/citations?user=kWnv_YkAAAAJ&hl=en
Andrew Fitzgibbon	74	https://scholar.google.com/citations?user=73t31IcAAAAJ&hl=en
Somesh Jha	85	https://scholar.google.com/citations?user=BaI718QAAAAJ&hl=en
Simon Peyton Jones	87	https://scholar.google.fr/citations?user=QsX7G-cAAAAJ&hl=en
David McAllester	65	https://scholar.google.com/citations?user=nbpafUkAAAAJ&hl=en

Reference item: \ 5. International Static Analysis Symposium (SAS)

Core Rank: A

This conference was published at 11 times by 6 of 19 individuals in the last 6 years.

The individuals that publish at this conference are: Patrick Cousot(5), Koushik Sen(1), Rajeev Alur(1), Mooly Sagiv(2), Aarti Gupta(1), Manuel V. Hermenegildo(1)

In 2015, there were 3 publications by 3 individuals: Patrick Cousot, Koushik Sen, Mooly Sagiv

In 2016, there were 1 publications by 1 individuals: Aarti Gupta

In 2018, there were 2 publications by 2 individuals: Mooly Sagiv, Rajeev Alur

In 2019, there were 4 publications by 1 individuals: Patrick Cousot

In 2020, there were 1 publications by 1 individuals: Manuel V. Hermenegildo

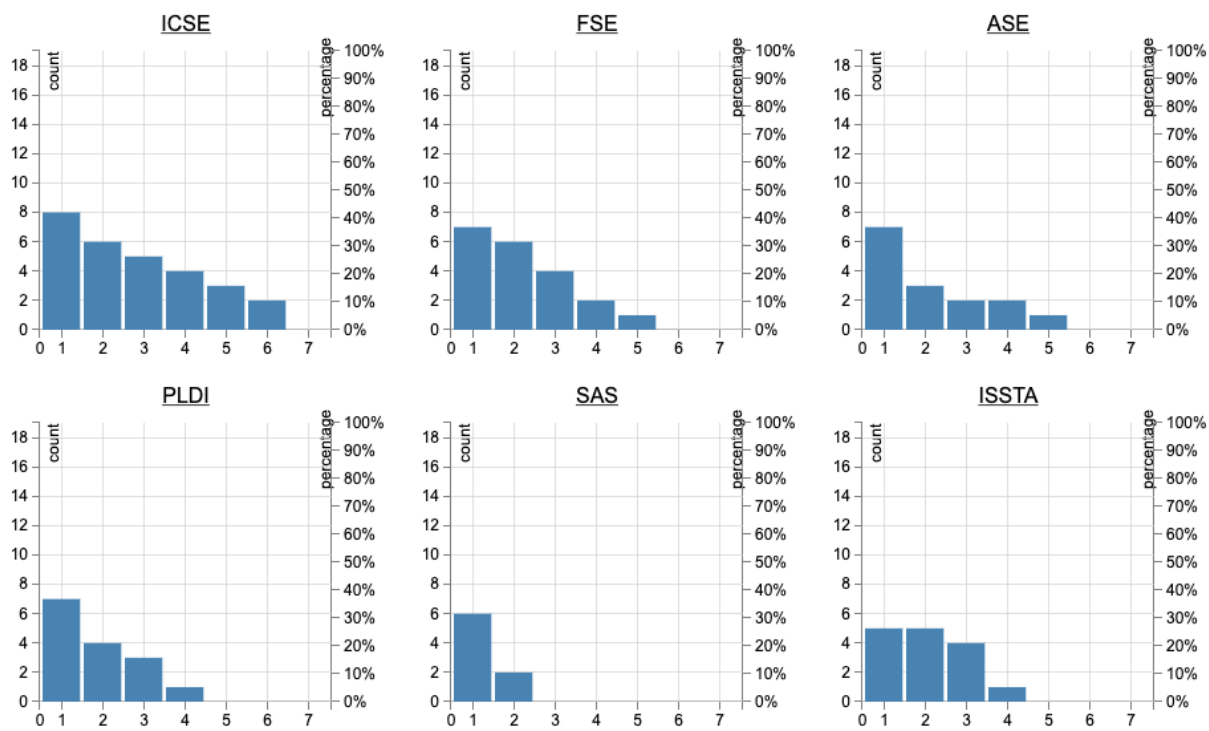
6 out of the 19 individuals published at this conference in 1 or more years

2 out of the 19 individuals published at this conference in 2 or more years WPP Report:

http://portal.core.edu.au/core/media/conf_rank_report/extra_info1903_top_people_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/extra_info1903_top_people_graph.png

These graphs show numbers of people publishing in multiple years. Each column shows number of people in that many or more years. The number publishing in a specific number of years can be seen by the difference with respect to the previous column.



Other Information

Other Relvant Info

Other relevant information: Dear CORE team, we have submitted through the tool additional information which we believe supports SAS retaining the A ranking including updated information in the B3, B5 and C sections.

We would also like to point out some additional points to the data in the previous sections:
 - We would like to emphasize that SAS is the premier conference in the Static Analysis area, i.e., the premier publication venue for researchers who work on the analysis of programs, performed at compile-time. The most established technique for this purpose is abstract interpretation. There are large, very good quality conferences like PLDI or POPL where very interesting work on static analysis and abstract interpretation, but the most advanced research in the area is published in SAS and the true test of novelty for the experts is publishing in SAS.

The following is a list of 20 researchers which have published in SAS in the years evaluated, 2015-2019 (this is to expand on the 10 listed in B5):

- Thomas Henzinger — 110 — 57 — Rajeev Alur — 90 — 45 — Thomas Reps — 79 — 34 — Mooly Sagiv — 61 — 29 — Peter Stuckey — 59 — 29 — Kenneth McMillan — 58 — 30 — Koushik Sen — 58 — 45 — Patrick Cousot — 55 — 30 — Orna Grumberg — 53 — 23 — Daniel Kroening — 52 — 34 — Bengt Jonsson — 51 — 25 — Ahmed Bouajjani — 48 — 24 — Parosh Abdulla — 47 — 28 — Aarti Gupta — 47 — 24 — Frank Tip — 47 — 25 — Parthasarathy Madhusudan — 46 — 26 — Andreas Podelski — 45 — 27 — Hongseok Yang — 41 — 29 — Flemming Nielson — 43 — 16 — Sriram Sankaranarayanan — 43 — 32

- SAS is indeed a comparatively smaller conference but this is normal in more specialized, more technical topics, such as is the case with the program static analysis.

- We would also like to point out that SAS evaluates and stores also the artifacts submitted with papers, which is further evidence of the quality of the conference.

- Regarding the comments on the the conference is clearly supported by top, senior researchers, that publish in it while also publishing in other top venues. SAS sees value in actively promoting new, up-coming researchers through membership in the PC. We see this as a definite plus.

Sincerely,
 Manuel Hermenegildo Harald Sondergaard Mar­Årja Garc­Årja de la Banda Peter Stuckey

Attachments

N/A

Proposers

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