



**Submission Data for 2020-2021 CORE conference Ranking process
ACM/SPEC International Conference on Performance Engineering**

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Conference Details

Conference

Title: ACM/SPEC International Conference on Performance Engineering
Acronym : ICPE

Requested Rank

Rank: A

Primarily CS

Is this conference primarily a CS venue: True

Location

Not commonly held within a single country, set of countries, or region.

DBLP Link

DBLP url: <https://dblp.org/db/conf/wosp>

FoR Codes

For1: 4612
For2: 4606
For3: SELECT

Recent Years

Proceedings Publishing Style

Proceedings Publishing: self-contained

Link to most recent proceedings: <https://icpe.spec.org/proceedings.html>

Further details: The proceedings are published with ACM in the ACM International Conference Proceedings Series.

The main volume contains short abstracts for the conference keynotes, and full texts of the papers submitted to the main conference tracks (Research and Industry). This includes regular (max 12p) and short (max 8p) papers, the split is detailed in the front matter.

A separate companion volume contains the workshop publications as selected by the workshop organizers, together with the material from additional main conference tracks, in particular Demos, Posters, Tutorials, and Vision and Work in Progress.

Software artifacts that accompany the articles are stored online, either with the ACM Digital Library or with a dedicated ZENODO repository at <https://zenodo.org/communities/spec-rg>.

Most Recent Years

Most Recent Year

Year: 2019

URL: <https://icpe2019.spec.org>

Location: Mumbai, India

Papers submitted: 71

Papers published: 13

Acceptance rate: 18

Source for numbers: <https://dl.acm.org/action/showFmPdf?doi=10.1145%2F3297663>

General Chairs

Name: Varsha Apte
Affiliation: IIT Bombay, India
Gender: F
H Index: 16
GScholar url: <https://scholar.google.com/citations?user=g2oLiH4AAAAJ>
DBLP url: <https://dblp.org/pid/99/5513.html>

Name: Antinisca Di Marco
Affiliation: University of L'Aquila, Italy
Gender: F
H Index: 24
GScholar url: <https://scholar.google.com/citations?user=QVzuSyIAAAAAJ>
DBLP url: <https://dblp.org/pid/m/AntiniscaDiMarco.html>

Program Chairs

Name: Marin Litoiu
Affiliation: York University, Canada
Gender: M
H Index: 36
GScholar url: <https://scholar.google.com/citations?user=FWASYv0AAAAJ>
DBLP url: <https://dblp.org/pid/55/887.html>

Name: Jos Merseguer
Affiliation: Universidad de Zaragoza, Spain
Gender: M
H Index: 26
GScholar url: <https://scholar.google.com/citations?user=oISPwPEAAAAJ>
DBLP url: <https://dblp.org/pid/96/1916.html>

Second Most Recent Year

Year: 2018

URL: <https://icpe2018.spec.org>

Location: Berlin, Germany

Papers submitted: 59

Papers published: 14

Acceptance rate: 24

Source for numbers: <https://dl.acm.org/action/showFmPdf?doi=10.1145%2F3184407>

General Chairs

Name: Katinka Wolter
Affiliation: Freie Universitt zu Berlin, Germany
Gender: F
H Index: 25
GScholar url: <https://scholar.google.com/citations?user=JqtocLYAAAAJ>
DBLP url: <https://dblp.org/pid/10/5050.html>

Name: William Knottenbelt
Affiliation: Imperial College London, UK
Gender: M
H Index: 35
GScholar url: <https://scholar.google.com/citations?user=Vz8XWRoAAAAJ>
DBLP url: <https://dblp.org/pid/37/1901.html>

Program Chairs

Name: Andr van Hoorn
Affiliation: University of Stuttgart, Germany
Gender: M
H Index: 22
GScholar url: <https://scholar.google.com/citations?user=w4XcIQEAAAAJ>
DBLP url: <https://dblp.org/pid/17/2945.html>

Name: Manoj Nambiar
Affiliation: Tata Consultancy Services, India
Gender: M
H Index: 8
GScholar url: <https://scholar.google.com/citations?user=DnaxwqUAAAAJ>
DBLP url: <https://dblp.org/pid/217/7211.html>

Third Most Recent Year

Year: 2017

URL: <https://icpe2017.spec.org>

Location: L'Aquila, Italy

Papers submitted: 65

Papers published: 22

Acceptance rate: 34

Source for numbers: <https://dl.acm.org/action/showFmPdf?doi=10.1145%2F3030207>

General Chairs

Name: Walter Binder Affiliation: University of Lugano, Switzerland Gender: M H Index: 33 G Scholar url: https://scholar.google.com/citations?user=g0nB0nMAAAAJ DBLP url: https://dblp.org/pid/05/3695.html
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Name: Vittorio Cortellessa Affiliation: University of L'Aquila, Italy Gender: M H Index: 29 G Scholar url: https://scholar.google.com/citations?user=s4JPU0EAAAAJ DBLP url: https://dblp.org/pid/c/VittorioCortellessa.html

Program Chairs

Name: Anne Koziolok Affiliation: Karlsruhe Institute of Technology, Germany Gender: F H Index: 23 G Scholar url: https://scholar.google.com/citations?user=ndibIWYAAAAJ DBLP url: https://dblp.org/pid/51/1757.html

Name: Evgenia Smirni Affiliation: College of William & Mary, USA Gender: F H Index: 40 G Scholar url: https://scholar.google.com/citations?user=1Ed4HYUAAAAJ DBLP url: https://dblp.org/pid/s/EvgeniaSmirni.html
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Policies

Chair Selection: The conference has a 12 member steering committee historically made up from representatives of the ACM and SPEC research communities (details outlined in ICPE Constitution document).

The steering committee collects and votes on PC and GC proposals, the main criteria are the research record and the community involvement. Multiple diversity criteria are tracked and reflected.

Reasonable connection to the local venue is also expected for one of the GC positions.

Policy name: The ICPE Constitution includes ACM Code of Ethics

Policy url: <https://www.acm.org/code-of-ethics>

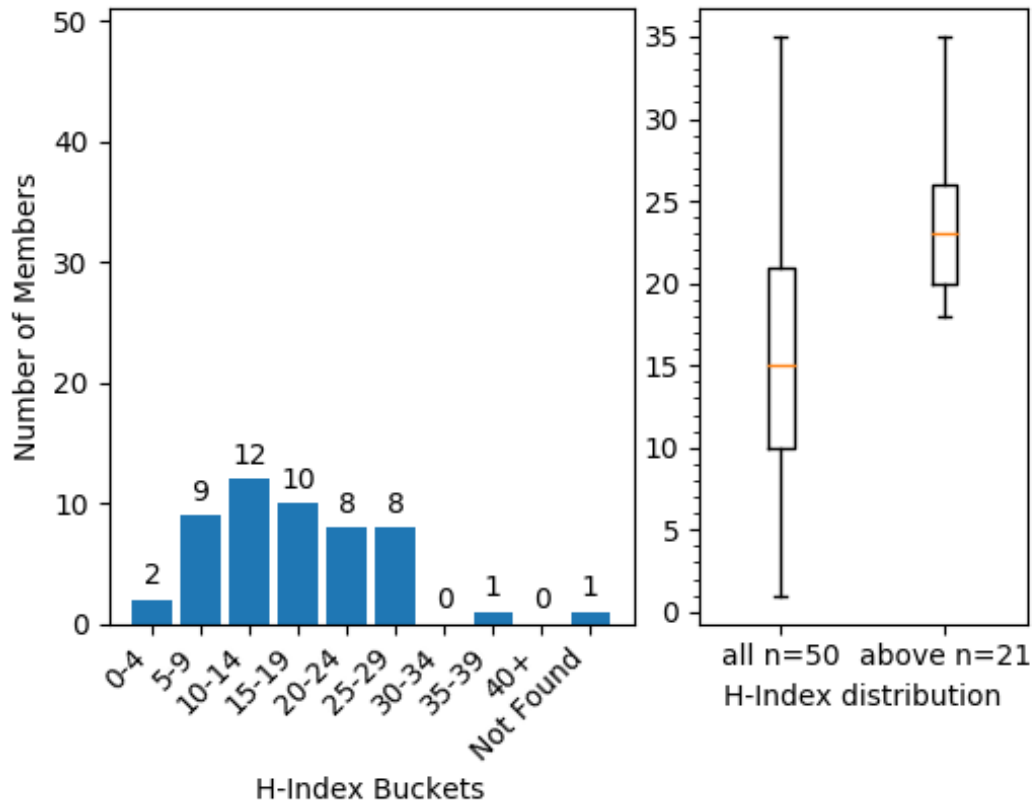
(Senior) Program Committee

Link to (s)pc: <https://dl.acm.org/action/showFmPdf?doi=10.1145%2F3297663>

File: http://portal.core.edu.au/core/media/conf_submissions_spc_file/core-pc-icpe-2019_eghCeVZ.txt

H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/addrank_hindex_buckets_973.png

Information Contained within this graph is derived using the Elsevier Scopus Database 2021.



Data and Metrics

Google Scholar Metrics

Sub-category url: https://scholar.google.com/citations?view_op=top_venues&vq=eng_softwaresystems

Position in sub-category: 20+

Image of top 20: http://portal.core.edu.au/core/media/changes_h5/addrank973_gsolar_minh5.png

Top publications

Categories > Engineering & Computer Science > Software Systems

	Publication	h5-index	h5-median
1.	ACM/IEEE International Conference on Software Engineering	74	111
2.	Journal of Systems and Software	61	90
3.	Information and Software Technology	59	90
4.	ACM SIGSOFT International Symposium on Foundations of Software Engineering	53	78
5.	Empirical Software Engineering	53	75
6.	IEEE Transactions on Software Engineering	52	77
7.	ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL)	48	76
8.	ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI)	46	78
9.	IEEE/ACM International Conference on Automated Software Engineering (ASE)	45	75
10.	IEEE Software	44	90
11.	Symposium on Operating Systems Principles	42	77
12.	Software & Systems Modeling	41	55
13.	Mining Software Repositories	40	52
14.	International Conference on Software Analysis, Evolution, and Reengineering (SANER)	40	48
15.	International Symposium on Software Testing and Analysis	36	61
16.	International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS)	33	54
17.	IEEE International Conference on Software Maintenance and Evolution	33	46
18.	Proceedings of the ACM on Programming Languages	31	46
19.	Software: Practice and Experience	30	36
20.	ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)	29	44

Dates and citation counts are estimated and are determined automatically by a computer program.

h5-index for this conference: 23

ACM Metrics

Is an ACM sponsored conference: True

Providing ACM Stats: True

ACM Statistics

Downloads in last 12 months: 37074

Average citations per article: 8

Average downloads per article: 324

ACM Most frequently publishing

Name: Samuel Kounev Paper Count: 21 Google Scholar h-index: 40 Gscholar url: https://scholar.google.com/citations?user=1iN71-YAAAAJ
Name: Andr��l van Hoorn Paper Count: 15 Google Scholar h-index: 22 Gscholar url: https://scholar.google.com/citations?user=w4XcIQEAAAAJ
Name: Hanspeter M��ssenb��ck Paper Count: 10 Google Scholar h-index: 31 Gscholar url: https://scholar.google.com/citations?user=qwnXMU8AAAAJ
Name: Alexandru Iosup Paper Count: 9 Google Scholar h-index: 44 Gscholar url: https://scholar.google.com/citations?user=7wwQ7twAAAAJ
Name: Andr��l B Bondi Paper Count: 9 Google Scholar h-index: 16 Gscholar url: https://scholar.google.com/citations?user=8EsuPv8AAAAJ
Name: Dheeraj Chahal Paper Count: 9 Google Scholar h-index: 3 Gscholar url: https://scholar.google.com/citations?user=eBQPF58AAAAJ
Name: Du��qan Okanovi? Paper Count: 9 Google Scholar h-index: 9 Gscholar url: https://scholar.google.com/citations?user=2ITtth8AAAAJ
Name: Manoj Nambiar Paper Count: 8 Google Scholar h-index: 8 Gscholar url: https://scholar.google.com/citations?user=DnaxwqUAAAAJ
Name: Rekha Singhal Paper Count: 8 Google Scholar h-index: 7 Gscholar url: https://scholar.google.com/citations?user=FvDrNscAAAAJ
Name: J��irgen Walter Paper Count: 8 Google Scholar h-index: 9 Gscholar url: https://scholar.google.com/citations?user=UIu_RhgAAAAJ

Aminer Rank

Not Listed in Aminer

Other Rankings

URL: <http://www.guide2research.com/topconf>

Description: From the site, this index is based on the h-index metric and the number of contributing top scientists in data from 2017-2019. ICPE is the first conference in this list focused on performance, rank 262, other competitors include ISPASS (rank 344), IPCC (rank 430), MASCOTS (rank 489).

Rank: 262

Conferences in area: Top: ACM SIGMETRICS (with heavy bent towards theory and modeling), ICPE, MASCOTS (also with heavy bent towards modeling).

Other reasonable (but sometimes with somewhat different focus) in alphabetical order: EPEW (European Performance Engineering Workshop), ICSA/QOSA (International Conference on Software Architectures), IMC (Internet Measurement Conference), IPCC (International Performance Computing and Communications Conference), ISPASS (International Symposium on Performance Analysis of Systems and Software), IFIP PERFORMANCE, MAMA (Workshop on Mathematical Performance Modeling and Analysis), QEST (International Conference on Quantitative Evaluation of Systems), VALUETOOLS (International Conference on Performance Evaluation Methodologies and Tools).

Top People Publishing Here

name: Don Towsley

justification: Highly cited researcher (GS ~70k) working especially on network performance.

<https://scholar.google.com/citations?user=KIFPVwoAAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	1	0	0	0

Attendance: OCCASIONALLY

name: Ahmed E. Hassan

justification: Highly cited researcher (GS ~20k) working in empirical software engineering with some results specific to performance.

<https://scholar.google.com/citations?user=9hwXx34AAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
0	0	0	1	1

Attendance: OCCASIONALLY

name: Prashant Shenoy

justification: Highly cited researcher (GS ~21k) working in distributed systems topics with relevant results in performance engineering.

<https://scholar.google.com/citations?user=TciP6mcAAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	0	0	1	0

Attendance: OCCASIONALLY

name: Wen-Mei Hwu

justification: Highly cited researcher (GS ~24k) working on GPU architectures with obvious relationship to computation performance.

<https://scholar.google.com/citations?user=ohjQPx8AAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
2	0	1	0	0

Attendance: OCCASIONALLY

name: Ludmila Cherkasova

justification: Highly cited researcher (GS ~13k) and ACM Distinguished Scientist (2009) with focus on quantitative analysis of systems.

http://www.jahrhundert.net/lucy_cherkasova.html

https://scholar.google.com/citations?user=bdL3_N4AAAAJ

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
0	1	0	3	1

Attendance: SOMETIMES

name: Alexandru Iosup

justification: Highly cited researcher (GS h-index 44) with well known results especially in the domain of cloud systems performance.

<https://scholar.google.com/citations?user=7wwQ7twAAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
2	1	1	2	2

Attendance: ALWAYS

name: Helmut Krcmar

justification: Highly cited researcher (GS ~23k) in software engineering with some work related to performance.

<https://scholar.google.com/citations?user=zwax5qkAAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
0	1	0	0	3

Attendance: OCCASIONALLY

name: Ralf Reussner

justification: Highly cited researcher (GS h-index 40) in software engineering with essential contributions to performance modeling.

<https://scholar.google.com/citations?user=wsPDe4IAAAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	2	0	0	2

Attendance: SOMETIMES

name: Evgenia Smirni

justification: Highly cited researcher (GS h-index 40) in software performance engineering, IEEE Fellow, ACM Distinguished Scientist.

<http://www.cs.wm.edu/~esmirni>

<https://scholar.google.com/citations?user=1Ed4HYUAAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	1	0	1	0

Attendance: OFTEN

name: Samuel Kounev

justification: Highly cited researcher (GS h-index 40) in software performance engineering, highly decorated and recognized by industry, including with SPEC Presidential Award.

https://se.informatik.uni-wuerzburg.de/software-engineering-group/research/awards-and-recognitions
 https://scholar.google.com/citations?user=1iN71-YAAAAJ

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
3	2	3	4	3

Attendance: ALWAYS

Where People Publish

Top (Senior) Program Committee Members

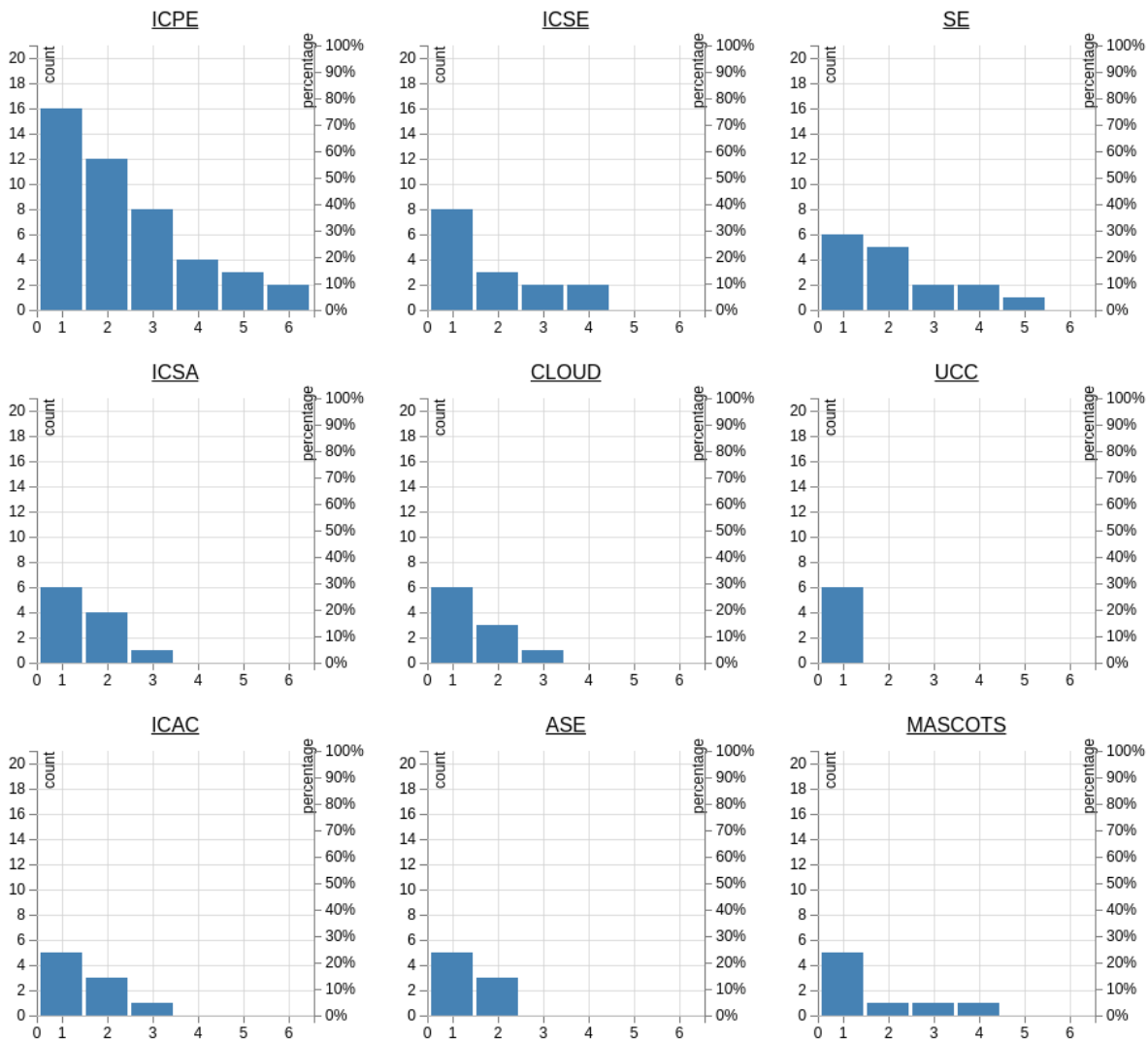
Generated Report Name: conf_submissions_top_spc/addrank973_top_spc.csv

WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/addrank973_spc_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/addrank973_spc_graph.png

Repeat year publishing

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.



[Additional 163 graphs](#)

Ranking order is first by number of the above people publishing in the venue, then by number of their publications, then by number of years with at least one publication from these people.

1. International Conference on Performance Engineering (ICPE)

Reference item: \ 1. International Conference on Performance Engineering (ICPE)

 This conference was published at 72 times by 16 of 21 experts in the last 5 years.

The experts that publish at this conference are: Vittorio Cortellessa(4), Alexandru Iosup(11), Samuel Kounev(25), Evgenia Smirni(4), Marin Litoiu(1), Zhen Ming (Jack) Jiang(1), Jos Merseguer(2), Wilhelm Hasselbring(1), C. Murray Woodside(3), John Murphy 0001(3), Petr Tuma 0001(7), Dorina C. Petriu(2), Daniel A. Menasc(3), Patrick P. C. Lee(1), Mirco Tribastone(3), Raffaella Mirandola(4)

In 2015, there were 12 publications by 7 experts: Alexandru Iosup, Samuel Kounev, Petr Tuma 0001, Dorina C. Petriu, Patrick P. C. Lee, Zhen Ming (Jack) Jiang, C. Murray Woodside

In 2016, there were 12 publications by 8 experts: Petr Tuma 0001, Vittorio Cortellessa, Alexandru Iosup, Samuel Kounev, Raffaella Mirandola, Wilhelm Hasselbring, Mirco Tribastone, Evgenia Smirni

In 2017, there were 16 publications by 9 experts: Petr Tuma 0001, John Murphy 0001, Alexandru Iosup, Samuel Kounev, Raffaella Mirandola, C. Murray Woodside, Jos Merseguer, Daniel A. Menasc, Evgenia Smirni

In 2018, there were 16 publications by 12 experts: Vittorio Cortellessa, Alexandru Iosup, Samuel Kounev, Evgenia Smirni, Marin Litoiu, Jos Merseguer, Dorina C. Petriu, C. Murray Woodside, John Murphy 0001, Petr Tuma 0001, Daniel A. Menasc, Raffaella Mirandola

In 2019, there were 8 publications by 4 experts: Alexandru Iosup, Samuel Kounev, Mirco Tribastone, Evgenia Smirni

In 2020, there were 8 publications by 5 experts: Vittorio Cortellessa, Alexandru Iosup, Samuel Kounev, Petr Tuma 0001, Mirco Tribastone

16 out of the 21 experts published at this conference in 1 or more years

12 out of the 21 experts published at this conference in 2 or more years

8 out of the 21 experts published at this conference in 3 or more years

4 out of the 21 experts published at this conference in 4 or more years

3 out of the 21 experts published at this conference in 5 or more years

2 out of the 21 experts published at this conference in 6 or more years

Top People Report

Method of selection: This data turned out to be a problem because people tend to annotate their Google Scholar profiles with generic topic names (such as cloud computing or operating systems or computer networks) instead of those specific to ICPE (such as cloud performance, systems performance, network performance).

In the end, we took a list of both ICPE specific relevant keywords and their common combinations (application/system/computer/software performance/performance evaluation/performance analysis/performance modeling, benchmarking, software performance engineering) and several more generic keywords we noticed with well known profiles (automated software engineering, availability, energy efficiency, power aware computing, modeling/modelling, simulation, queuing/queueing) and manually filtered out those people whose most cited publications on their Google Scholar profile were a radical mismatch for ICPE, stopping at h-index 30.

Following the advice in the form, we also added the editors of two specialized journals, Performance Evaluation by Elsevier and Transactions on Modeling and Performance Evaluation of Computer Systems by ACM.

name	h-index	gscholar url
Ahmed E. Hassan	77	https://scholar.google.com/citations?hl=en&user=9hwXx34AAAAJ
Anand Sivasubramaniam	61	https://scholar.google.com/citations?hl=en&user=JWXlepgAAAAJ
Antonio Puliafito	46	https://scholar.google.com/citations?hl=en&user=Rgi_tYgAAAAJ
Betty Cheng	50	https://scholar.google.com/citations?hl=en&user=qABYFOIAAAAAJ
Carl Waldspurger	58	https://scholar.google.com/citations?hl=en&user=6Ex1MMYAAAAJ
Cheng-Zhong Xu	56	https://scholar.google.com/citations?hl=en&user=XsBBTUgAAAAJ
Daniel Menasce	53	https://scholar.google.com/citations?hl=en&user=ONlo05IAAAAAJ
David J. Lilja	45	https://scholar.google.com/citations?hl=en&user=So0jGcwAAAAJ
David Nicol	55	https://scholar.google.com/citations?hl=en&user=HIJ4KNgAAAAJ
Derek Eager	45	https://scholar.google.com/citations?hl=en&user=Xww45SgAAAAJ
Dick Epema	51	https://scholar.google.com/citations?hl=en&user=uls6Q9UAAAAJ
Don Towsley	131	https://scholar.google.com/citations?hl=en&user=KIFPVwAAAAJ
Dror Feitelson	56	https://scholar.google.com/citations?hl=en&user=DQdE9-MAAAAAJ
Emilio Leonardi	45	https://scholar.google.com/citations?hl=en&user=CmQzsisAAAAJ
Holger Hermanns	55	https://scholar.google.com/citations?hl=en&user=lWMIeCAAAAAJ
Jean Walrand	65	https://scholar.google.com/citations?hl=en&user=rPU7fzOAAAAJ
Jean-Marc Jezequel	58	https://scholar.google.com/citations?hl=en&user=DZ5_GwAAAAJ
Jean-Yves Le Boudec	77	https://scholar.google.com/citations?hl=en&user=hLj7018AAAAJ
John A. Miller	50	https://scholar.google.com/citations?hl=en&user=K7j2Uk8AAAAJ
John Mellor-Crummey	50	https://scholar.google.com/citations?hl=en&user=wX0XpxMAAAAAJ
Jussara M. Almeida	46	https://scholar.google.com/citations?hl=en&user=vr8aFwUAAAAJ
Kishor Trivedi	104	https://scholar.google.com/citations?hl=en&user=fEVXhhAAAAAJ
Lizy Kurian John	50	https://scholar.google.com/citations?hl=en&user=YPu9rWUAAAAJ
Massimiliano Di Penta	73	https://scholar.google.com/citations?hl=en&user=j6ucyOAAAAAJ
Raj Jain	65	https://scholar.google.com/citations?hl=en&user=runT3RsAAAAJ
Richard R. Muntz	55	https://scholar.google.com/citations?hl=en&user=e90xXgwAAAAJ
Todd Austin	60	https://scholar.google.com/citations?hl=en&user=B80_SVkAAAAJ
Xiaohui Gu	45	https://scholar.google.com/citations?hl=en&user=6K61vxAAAAAJ
Yi-Bing Lin	56	https://scholar.google.com/citations?hl=en&user=DxFQ14MAAAAAJ
Zibin Zheng	53	https://scholar.google.com/citations?hl=en&user=WPC6ED4AAAAJ
Marco Ajmone Marsan	54	https://scholar.google.com/citations?user=oPrHUWAAAAAJ&hl=en

Keyword:

Reference item: \\ 1. International Conference on Performance Engineering (ICPE)

 This conference was published at 19 times by 10 of 29 experts in the last 5 years.

The experts that publish at this conference are: Jean-Marc Jzquel(1), Dick H. J. Epema(2), Kishor S. Trivedi(4), Ahmed E. Hassan(2), Lizy Kurian John(1), Jussara M. Almeida(1), Todd M. Austin(1), Derek L. Eager(2), Don Towsley(2), Daniel A. Menasc(3)

In 2015, there were 3 publications by 3 experts: Todd M. Austin, Ahmed E. Hassan, Dick H. J. Epema

In 2016, there were 1 publications by 1 experts: Ahmed E. Hassan

In 2017, there were 5 publications by 4 experts: Daniel A. Menasc, Derek L. Eager, Kishor S. Trivedi, Dick H. J. Epema

In 2018, there were 3 publications by 3 experts: Daniel A. Menasc, Don Towsley, Jussara M. Almeida

In 2019, there were 5 publications by 3 experts: Lizy Kurian John, Kishor S. Trivedi, Don Towsley

In 2020, there were 2 publications by 2 experts: Derek L. Eager, Jean-Marc Jzquel

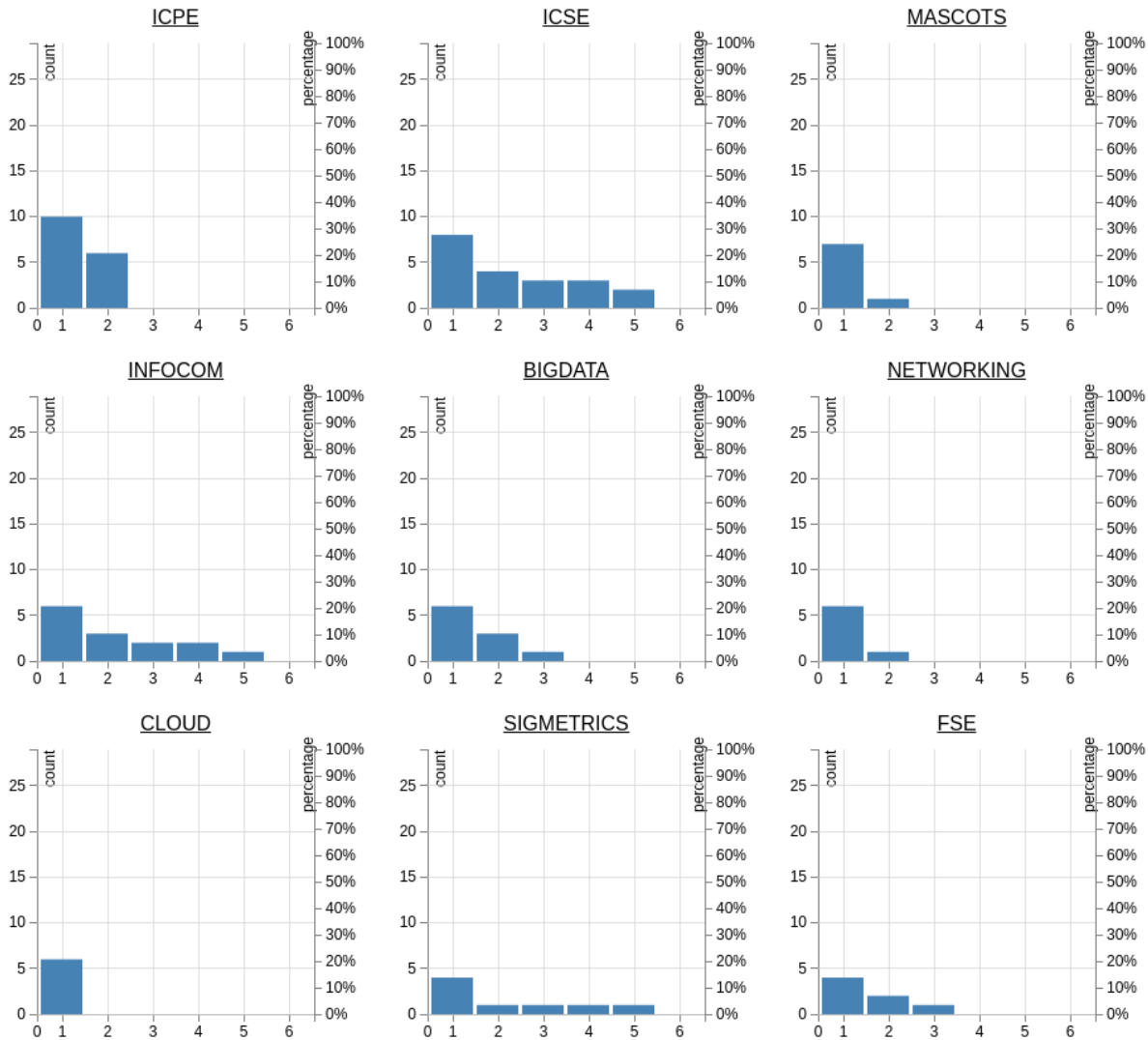
10 out of the 29 experts published at this conference in 1 or more years

6 out of the 29 experts published at this conference in 2 or more years

WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/addrank973_top_people_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/addrank973_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.



[Additional 300 graphs](#)

Other Information

Comparator Comparison

Comparator

Symposium Model Analysis and Simulation of Computer and Telecommunications Systems

Explanation as to why conference is superior to comparator:

With respect to acceptance rates, over the years, ICPE became gradually more selective than MASCOTS, although both conferences can still be considered quite selective (in 2019 ICPE at 18%, MASCOTS at 24%).

With respect to the chairs, the h indices of the recent chairs at ICPE are often higher than at MASCOTS (ICPE PC-PC-GC-GC 2019 36-26-16-24, 2018 22-8-25-35, 2017 23-40-33-29, MASCOTS PC-PC-GC 2019 27-23-13, 2018 11-18-23, 2017 25-55-44). We note that the h indices are often not a good indicator of community standing, in particular with industrial chairs.

The WPP report indicates ICPE tends to attract the software engineering community, in contrast MASCOTS experts tend to frequent the telecom and networks community. The second most attended conference in the ICPE listing after ICPE is ICSE (CORE A*), whereas the second most attended conference in the MASCOTS listing after MASCOTS is ICPE.

ICPE is ranked significantly higher than MASCOTS by Google Scholar h5 index (ICPE h5 index 23, h5 median 33, MASCOTS h5 index 15, h5 median 22).

ICPE actively participates in the drive to improve research reproducibility. Since 2015, it has actively encouraged the authors to contribute their research artifacts to a special public repository (<https://zenodo.org/communities/spec-rg>), since 2018, it has an artifact evaluation track that follows the ACM Artifact Review and Badging Policy. As of 2020, MASCOTS appears to have neither.

ICPE actively participates in the drive to improve review quality. In 2017, ICPE has started cooperating with the Review Quality Collector (<https://www.reviewqualitycollector.org>), and recognizes the best reviewers annually.

ICPE attracts an accompanying workshop community. From 2017 to 2019, there were 15 workshops held together with ICPE. MASCOTS appears to have had no workshops in the same period.

ICPE is also unique in cooperation between ACM and SPEC (<http://www.spec.org>), which helps maintain a dedicated industrial track for industrial research output. This helps attract relevant research in a domain that is heavily influenced by industrial players but at the same time preserves research character of the conference.

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_973_334.pdf

Comparator

IFIP International Symposium on Computing Performance, Modelling, Measurement and Evaluation

Explanation as to why conference is superior to comparator:

IFIP PERFORMANCE has great chair h indices, but the submission numbers are way lower than ICPE. Except for years where it is merged with SIGMETRICS, IFIP PERFORMANCE appears to be not at all selective.

In contrast to ICPE, IFIP PERFORMANCE appears to have no artifact evaluation process. ICPE is very active in the drive to improve research reproducibility, which is quite important especially in empirical research domains.

The relationship between SIGMETRICS and IFIP PERFORMANCE with respect to paper submission and review process appears unusual. For 2020, IFIP PERFORMANCE authors are explicitly encouraged to submit the revised version of their papers which were rejected by SIGMETRICS and promised a repeated review by one SIGMETRICS reviewer (<https://www.performance2020.deib.polimi.it/call-for-papers>). It is not clear how much IFIP PERFORMANCE should be treated as a standalone conference, this also obviously complicates comparison with ICPE.

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_973_336.pdf

Other Relvant Info

Other relevant information: Historically, the conference evolved from two separate events, the ACM Workshop on Software and Performance (WOSP) and the SPEC International Performance Evaluation Workshop (SIPEW), which took place as far back as 1998. The first merged conference with the current name took place in 2010. The history as well as other relevant information is detailed at <https://icpe.spec.org>.

With regard to the submitted information and ranking, we believe the evaluation can be somewhat complicated by the fact that performance - the main focus of ICPE - is very often considered alongside other topics, and performance evaluation is then included as part of other results (for example, work that aims to improve systems performance is often published at software systems venues, similarly work that aims to evaluate software performance is often published at software engineering venues). Also, various classification charts may spread performance throughout other topics (for example the ACM classification chart has six different leaf categories that deal with performance). That said, we believe that existence of specialized groups such as ACM SIGMETRICS and specialized venues such as TOMPECS sufficiently illustrates that performance as a topic deserves separate consideration.

In addition to the ICPE activities mentioned above (artifact review process, review quality tracking, and so on), we also want to point out that ICPE actively works to involve younger scientists with respectable records in the ICPE organization at high levels. We believe it is very important for the community to involve and promote new generations of successful scientists.

Attachments

N/A

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