



**Submission Data for 2020-2021 CORE conference Ranking process
International Conference on Software Architecture (was previously WICSA)**

Henry Muccini, Barbora Buhnova

Conference Details

Conference

Title: International Conference on Software Architecture (was previously WICSA)
Acronym : ICSA
Rank: NEW

Requested Rank

Rank: A

Recent Years

Proceedings Publishing Style

Proceedings Publishing: self-contained

Link to most recent proceedings: <https://ieeexplore.ieee.org/xpl/conhome/1000680/all-proceedings>

Further details: ICSA (International Conference on Software Architecture) conference series has a tradition of publishing its proceedings with IEEE since 2001 (back then under the name of WICSA, Working International Conference on Software Architecture). As ICSA is an established conference with an ecosystem of different tracks, early-career researchers forum, and workshops, it publishes two proceedings volumes, one for the full main track, and one for the remaining tracks and workshops (labelled as "Companion").

Most Recent Years

Most Recent Year

Year: 2019
URL: <https://icsa-conferences.org/2019/>
Location: Hamburg, Germany
Papers submitted: 96
Papers published: 21
Acceptance rate: 22
Source for numbers: <https://ieeexplore.ieee.org/document/8712347>

General Chairs

Name: Matthias Riebisch Affiliation: University of Hamburg, Germany Gender: M H Index: 22 GScholar url: https://scholar.google.com/citations?hl=en&user=HSDLZtkAAAAJ DBLP url: https://dblp.org/pid/20/2574.html
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Program Chairs

Name: Paris Avgeriou Affiliation: University of Groningen, The Netherlands Gender: M H Index: 41 G Scholar url: https://scholar.google.com/citations?hl=en&user=0lYdiYMAAAAJ DBLP url: https://dblp.org/pid/30/3651.html
Name: Uwe Zdun Affiliation: University of Vienna, Austria Gender: M H Index: 35 G Scholar url: https://scholar.google.com/citations?hl=en&user=jLm9DCkAAAAAJ DBLP url: https://dblp.org/pid/00/6127.html

Second Most Recent Year

Year: 2018

URL: <https://icsa-conferences.org/2018/>

Location: Seattle, USA

Papers submitted: 86

Papers published: 22

Acceptance rate: 26

Source for numbers: <https://www.computer.org/csdl/pds/api/csdl/proceedings/download-article/120mNvSbBK3/pdf>

General Chairs

Name: Ian Gorton Affiliation: Northeastern University, USA Gender: M H Index: 38 G Scholar url: https://scholar.google.com/citations?hl=en&user=SqC-kTwAAAAAJ DBLP url: https://dblp.org/pid/74/3329.html
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Program Chairs

Name: Clemens Szyperski Affiliation: Microsoft, USA Gender: M H Index: 30 G Scholar url: https://scholar.google.com/citations?hl=en&user=nRvqDBkAAAAAJ DBLP url: https://dblp.org/pid/03/5825.html
Name: Neil Ernst Affiliation: University of Victoria, Canada Gender: M H Index: 25 G Scholar url: https://scholar.google.com/citations?hl=en&user=byBabzAAAAAJ DBLP url: https://dblp.org/pid/68/3691.html
Name: Barbora Buhnova Affiliation: Masaryk University, Czech Republic Gender: F H Index: 18 G Scholar url: https://scholar.google.com/citations?hl=en&user=3J7jHK4AAAAAJ DBLP url: https://dblp.org/pid/33/7949.html

Third Most Recent Year

Year: 2017

URL: <https://icsa-conferences.org/2017/>

Location: Gothenburg, Sweden

Papers submitted: 95

Papers published: 21

Acceptance rate: 22

Source for numbers: <https://ieeexplore.ieee.org/document/7930188>

General Chairs

Name: Ivica Crnkovic Affiliation: Chalmers University of Technology, Sweden Gender: M H Index: 34 G Scholar url: https://scholar.google.com/citations?hl=en&user=yewx0GgAAAAJ DBLP url: https://dblp.org/pid/c/IvicaCrnkovic.html
Name: Jan Bosch Affiliation: Chalmers University of Technology, Sweden Gender: M H Index: 63 G Scholar url: https://scholar.google.com/citations?hl=en&user=W6oSWIAAAAAJ DBLP url: https://dblp.org/pid/60/6845.html

Program Chairs

Name: Patrizio Pelliccione Affiliation: University of Gothenburg, Sweden Gender: M H Index: 29 G Scholar url: https://scholar.google.com/citations?hl=en&user=DmDWmy4AAAAJ DBLP url: https://dblp.org/pid/p/PatrizioPelliccione.html
Name: Marija Mikic Affiliation: Google, USA Gender: F H Index: 17 G Scholar url: https://scholar.google.com/citations?hl=en&user=8HCVx48AAAAJ DBLP url: https://dblp.org/pid/38/6980.html

Policies

Chair Selection: The chairs selection procedure is described in ICSA Steering Committee Charter (for download at <https://icsa-conferences.org/series/steering-committee/ICSA-Steering-Committee-Charter.pdf>). The charter defines the conditions to be met by the General chair (i.e. Conference chair) as well as the Program Committee chairs of the main technical track. Specifically, according to the Charter, the General chair is required to be familiar with both the academic and industrial communities. And among Program Committee chairs, there needs to be a chair representing academia and a chair representing industry (with industry as their primary affiliation). The General chair as well as the Program Committee chairs are being nominated within the proposal to host ICSA conference (the call for proposals is open all year round, at <https://icsa-conferences.org/series/call-for-proposals/index.html>) and approved by the ICSA Steering Committee. The Steering Committee furthermore approves also other steps in the formation of the organizing team and its Program Committee to ensure balance and diversity (see the Charter).

Policy name: ICSA Steering Committee Charter

Policy url: <https://icsa-conferences.org/series/steering-committee/ICSA-Steering-Committee-Charter.pdf>

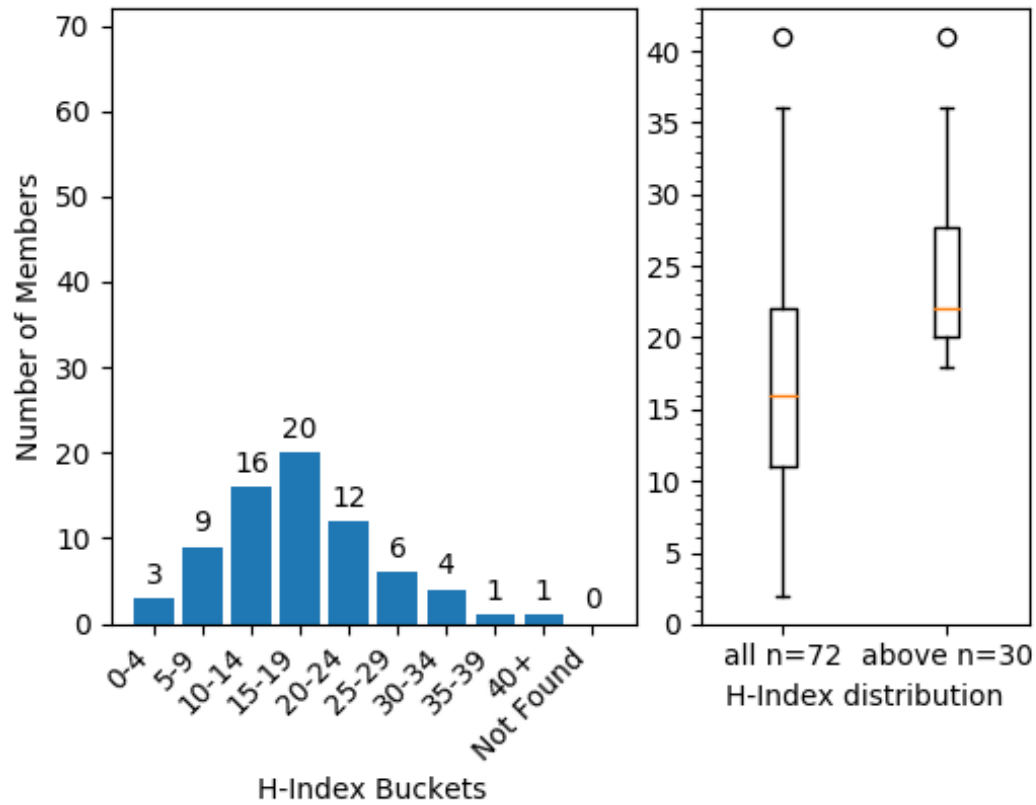
(Senior) Program Committee

Link to (s)pc: <https://icsa-conferences.org/2019/committees/pc-technical/index.html>

File: http://portal.core.edu.au/core/media/conf_submissions_spc_file/ICSA2019-PC_sYztZTh.txt

H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1166.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&hl=en&vq=eng_softwaresystems

Position in sub-category: 20+

Image of top 20: http://portal.core.edu.au/core/media/changes_h5/higherrank1166_gscholar_minh5.PNG

	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

h5-index for this conference: 24

ACM Metrics

Not Sponsored by ACM

Aminer Rank

Aminer rank: 406

Aminer name: Working IEEE/IFIP Conference on Software Architecture

Acronym / shortname: WICSA

h-5 index: 17

CCF level: C

THU level: -

Top Aminer Cites: http://portal.core.edu.au/core/media/conf_submissions_citations/higherrank1166_aminer_top_cite.PNG

WICSA (2015-2016)		ICSA (2017-present)	
Rank	Cited by	Rank	Cited by
1	314	1	368
2	77	2	152
3	47	3	59
4	39	4	54
5	32	5	43
6	31	6	39
7	29	7	33
8	28	8	33
9	28	9	30
10	28	10	26
11	28	11	25
12	28	12	23
13	28	13	23
14	28	14	23
15	28	15	23
16	28	16	23
17	28	17	23
18	28	18	23
19	28	19	23
20	28	20	23
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91	28	91	23
92	28	92	23
93	28	93	23
94	28	94	23
95	28	95	23
96	28	96	23
97	28	97	23
98	28	98	23
99	28	99	23
100	28	100	23

Other Rankings

URL: <http://gii-grin-scie-rating.scie.es/ratingSearch.jsf>
 Description: Unfortunately, all rankings we have found either include only WICSA (supposing it is inactive for the past three years) or only ICSA (supposing that it is a new non-established conference with only 3 years of history, although the history is 21 years now) not being aware it is the same conference (name WICSA till 2016, name ICSA since 2017). For this reason, rankings grade ICSA below its actual quality. E.g. AMiner gives WICSA h5 index 17, GScholar gives ICSA h5 index 17, but when looking 5 years back in the history of the conference as a whole and computing the h5 index manually, it is 24.
 For this reason also the picture of top cited (uploaded above) needed to show top cited from both AMiner (left) and GScholar (right) to truthfully report 10 most cited papers from the past 5 years. This picture is important to demonstrate that ICSA is actually stronger than WICSA (more citations in shorter history) and also stronger than other conferences that rarely have the recent years represented in 10 top cited papers (or even the full h5 index list), see the excel file attached in section F of this submission.
 We therefore believe that ICSA deserves better or equivalent grading than given to WICSA in the past (see the overview from different rankings for WICSA at the URL above).
 Rank: LS: B, MA: A-
 Conferences in area: The most prestigious conferences for software-architecture papers sorted by relevance are:
 1. ICSA (International, Software Architecture specific) 2. ECSA (European, Software Architecture specific) 3. ICSE (International, Software Engineering general, best in the FoR) 4. FSE (International, Software Engineering general, among top in FoR)

Top People Publishing Here

name: Jan Bosch
 justification: Jan Bosch, Chalmers University of Technology Sweden <https://www.chalmers.se/en/staff/Pages/jan-bosch.aspx>
<https://www.janbosch.com/>
 h-index: 63, citations 20, 777, <https://scholar.google.se/citations?user=W6oSWIAAAAJ&hl=en>
 10th position on Google Scholar, Software Architecture:
https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:software_architecture
 Honorary chair (general co-chair), ICSA 2017 <https://icsa-conferences.org/2017/committees/organization/>
 Seminal papers on Architecture Design Decisions, e.g., “Software architecture as a set of architectural design decisions” cited by 734 on Scholar
 Seminal papers on Software Product Line, e.g., “On the notion of variability in software product lines” cited by 819 on Scholar, and “From software product lines to software ecosystems” cited by 684 on Scholar.
 Author of many excellent books on Software Architectures and Software Product Lines: “Design and use of software architectures: adopting and evolving a product-line approach” (cited by 2319 on Scholar); “Speed, Data, and Ecosystems: Excelling in a Software-Driven World” CRC Press 2017.
 Director of the Software Center <https://www.software-center.se/organization/>
 Frequent keynote speaker in top-rated research and industrial conferences
 The “paper count” data is collected from <http://portal.core.edu.au/core-tools/wpp/>
 The “how often do they attend” data is collected by analyzing the attendee list of the past five years.

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	0	3	2	1

Attendance: ALWAYS

name: Nenad Medvidovic

justification: Nenad Medvidovic, University of Southern California <https://softarch.usc.edu/~nen/>

Scholar H-index 60, total citations 18180 https://scholar.google.com/citations?user=kqW_-2gAAAAJ&hl=it&oi=ao

12th position on Google Scholar, Software Architecture:

[https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:](https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:software_architecture&after_author=YCsDAHm0__8J&astart=10)

[software_architecture&after_author=YCsDAHm0__8J&astart=10](https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:software_architecture&after_author=YCsDAHm0__8J&astart=10)

Editor-in-Chief, IEEE TSE <https://www.computer.org/csdl/journal/ts/about/107385?title=Editorial%20Board&periodical=IEEE%20Transactions%20on%20Software%20Engineering>

Seminal papers on Architecture Description Languages – IJA classification and comparison framework for software architecture description languages – cited by 2928 on Scholar

Seminar paper on architecture-based self-adaptation: – IJAAn architecture-based approach to self-adaptive software – cited by 1369 on Scholar.

Founding Director of the SoftArch Laboratory at USC <https://softarch.usc.edu/>

Author of many excellent books on Software Architectures, such as – IJA Software Architecture: Foundations, Theory, and Practice – I, year 2009 <https://www.amazon.it/Software-Architecture-Foundations-Medvidovic-September/dp/B00LXJCJ6U>

The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>

The "how often do they attend" data is collected by analyzing the attendee list of the past five years.

Paper counts:

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

Attendance: SOMETIMES

name: Rick Kazman

justification: Rick Kazman, University of Hawaii <https://shidler.hawaii.edu/itm/directory/rick-kazman>

Scholar H-index 54, total citations 24031 https://scholar.google.com/citations?hl=it&user=NUJQv_oAAAAJ

7th position on Google Scholar, Software Architecture: [https://scholar.google.com/citations?](https://scholar.google.com/citations?hl=en&view_op=search_authors&mauthors=label:software_architecture)

[hl=en&view_op=search_authors&mauthors=label:software_architecture](https://scholar.google.com/citations?hl=en&view_op=search_authors&mauthors=label:software_architecture)

Co-author of the Software architecture in practice book cited by 9309 on Scholar

Co-author of the Evaluating software architectures book cited by 1616 on Scholar

Co-author of the Technical Debt in Practice book

https://www.amazon.com/Rick-Kazman/e/B001ILMANU%3Fref=dbs_a_mng_rwt_scns_share

Co-inventor of the ATAM method for Architecture Evaluation

Chair IEEE Computer Society TAC (Technical Activities Committee), 2018-present

Chair IEEE TCSE (Technical Council on Software Engineering), 2016-2020

The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>

The "how often do they attend" data is collected by analyzing the attendee list of the past five years.

Paper counts:

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

Attendance: SOMETIMES

name: Frank Leymann

justification: Frank Leymann, University of Stuttgart, Germany, <https://www.iaas.uni-stuttgart.de/en/institute/team/Leymann/>

Scholar H-index 82, total citations 37238 <https://scholar.google.com/citations?hl=it&user=qRnegTsAAAAJ>

Managing Director - Institute of Architecture of Application Systems

General co-chair ICSA 2021

Contributor to 23 standards

Field Editor - Computing Associate Editor - IEEE Transactions on Service Computing

The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>

The "how often do they attend" data is collected by analyzing the attendee list of the past five years.

Paper counts:

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

Attendance: OCCASIONALLY

name: Philippe Kruchten

justification: Philippe Kruchten, University of British Columbia <http://ece.ubc.ca/faculty/philippe-kruchten>

Scholar H-index 47, total citations 19326 <https://scholar.google.com/citations?hl=it&user=u74gQEUA AAAJ>

11th position on Google Scholar, Software Architecture:

[https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:](https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:software_architecture&after_author=onYLAKiu__8J&astart=10)

[software_architecture&after_author=onYLAKiu__8J&astart=10](https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:software_architecture&after_author=onYLAKiu__8J&astart=10)

Inventor of the RUP 4+1 views, author of the – IJA The 4 + 1 view model of architecture – I IEEE Software article with 3732 citations on Scholar

From 1996 to 2003, he was Director of Process Development (RUP) at Rational Software

Author of the book, cited by 6114 on Scholar
 Author of seminal papers on Agile Architecture and Architecture Design Decisions.
 Co-initiator of the research area on Technical Debt, author of the article cited by 522 on Scholar
 Co-author of the book
 Co-author of the book
 Co-author of the book
 The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>
 The "how often do they attend" data is collected by analyzing the attendee list of the past five years.
 Paper counts:

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

Attendance: ALWAYS

name: Danny Weyns

justification: Danny Weyns, Katholieke Universiteit Leuven <https://people.cs.kuleuven.be/~danny.weyns/>

Scholar H-index 45, total citations 9701 <https://scholar.google.com/citations?hl=it&user=MG8iJPAAAAAJ>

17th position on Google Scholar, Software Architecture:

[https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:software_architecture&after_author=YCsDAH-0__8J&astart=10)

[software_architecture&after_author=YCsDAH-0__8J&astart=10](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:software_architecture&after_author=YCsDAH-0__8J&astart=10)

He is one of the most impactful researcher on self-adaptation in software architecture.

His Dagstuhl seminar paper on Software engineering for self-adaptive systems: A second research roadmap (co-authored by many experts in the field) reached 1855 citations so far on Google Scholar.

He co-edited many books and published a book in 2020 on An Introduction to Self-adaptive Systems: A Contemporary Software Engineering Perspective

<https://www.amazon.com/Introduction-Self-adaptive-Systems-Contemporary-Engineering/dp/1119574943>

He has been the PC co-chair of the ECSA 2015 conference and general co-chair of the ECSA 2020 conference.

The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>

The "how often do they attend" data is collected by analyzing the attendee list of the past five years.

Paper counts:

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

Attendance: ALWAYS

name: Muhammad Ali Babar

justification: Muhammad Ali Babar, The University of Adelaide, Australia <https://www.adelaide.edu.au/directory/ali.babar>

Scholar H-index 48, total citations 9574 <https://scholar.google.com/citations?hl=it&user=oagBheUAAAAJ>

19th position on Google Scholar, Software Architecture:

[https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:](https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:software_architecture&after_author=YCsDAHm0__8J&astart=10)

[software_architecture&after_author=YCsDAHm0__8J&astart=10](https://scholar.google.com/citations?view_op=search_authors&hl=it&mauthors=label:software_architecture&after_author=YCsDAHm0__8J&astart=10)

Book on Agile Software Architecture: Aligning Agile Processes with Software Architecture, Morgen Kaufmann Publishers, December 2013.

The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>

The "how often do they attend" data is collected by analyzing the attendee list of the past five years.

Paper counts:

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

Attendance: SOMETIMES

name: Sam Malek

justification: Sam Malek, University of California, Irvine <https://www.ics.uci.edu/~malek/>

Scholar H-index 45, total citations 7789 <https://scholar.google.com/citations?hl=it&user=qrCVPOYAAAAJ>

22nd position on Google Scholar, Software Architecture:

[https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:software_architecture&after_author=YCsDAHm0__8J&astart=10)

[software_architecture&after_author=YCsDAHm0__8J&astart=10](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:software_architecture&after_author=YCsDAHm0__8J&astart=10)

Director of the Institute for Software Research and Software Engineering and Analysis Laboratory.

ICSA 2020 PC co-chair

Awards: National Science Foundation CAREER award (2013) GMU Emerging Researcher/Scholar/Creator award (2013) GMU

Computer Science Department Outstanding Faculty Research Award (2011).

A relevant list of keynotes <https://www.ics.uci.edu/~malek/malekCV.pdf>

The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>

The "how often do they attend" data is collected by analyzing the attendee list of the past five years.

Paper counts:

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

Attendance: SOMETIMES

name: Paris Avgeriou

justification: Paris Avgeriou, University of Groningen <http://www.cs.rug.nl/~paris/>

Scholar H-index 41, total citations 7071 <https://scholar.google.com/citations?hl=it&user=0LYdiYMAAAAJ>
 Head of the SEARCH (Software Engineering and Architecture) Group of the Bernoulli Institute for Mathematics, Computer Science and Artificial Intelligence at the University of Groningen (RuG). <http://www.cs.rug.nl/~paris/>
 (co-)Editor in Chief of the Journal of Systems and Software.
<https://www.journals.elsevier.com/journal-of-systems-and-software/editorial-board>
 Vice-chair of the Dutch Software Engineering Association (VEReniging Software Engineering Nederland âÄS (VERSEN).
<http://www.cs.rug.nl/~paris/>
 Senior Member of the Institute of Electrical and Electronics Engineers (IEEE).
 Co-chair: International Software Architecture PhD School (iSAPS 2019), 17-21 June 2019, Lorentz Center, the Netherlands.
<https://www.lorentzcenter.nl/international-software-architecture-phd-school-2020.html>
 The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>
 The "how often do they attend" data is collected by analyzing the attendee list of the past five years.
 Paper counts:

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

Attendance: ALWAYS

name: Patricia Lago

justification: Patricia Lago, Vrije Universiteit Amsterdam <http://patricialago.nl/>

Scholar H-index 39, total citations 5742 <https://scholar.google.com/citations?hl=it&user=q5vgzKgAAAAJ>

Leading the Software and Sustainability (S2) research group in the Computer Science Department <http://patricialago.nl/>

Co-chair: International Software Architecture PhD School (iSAPS 2019), 17-21 June 2019, Lorentz Center, the Netherlands.

<https://www.lorentzcenter.nl/international-software-architecture-phd-school-2020.html>

Director of the Master Information Sciences, initiator of the Computer Science Master Track in Software Engineering and Green IT, and co-founder of the Green Lab <http://patricialago.nl/>

The "paper count" data is collected from <http://portal.core.edu.au/core-tools/wpp/>

The "how often do they attend" data is collected by analyzing the attendee list of the past five years.

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
2	1	4	3	0

Attendance: ALWAYS

Where People Publish

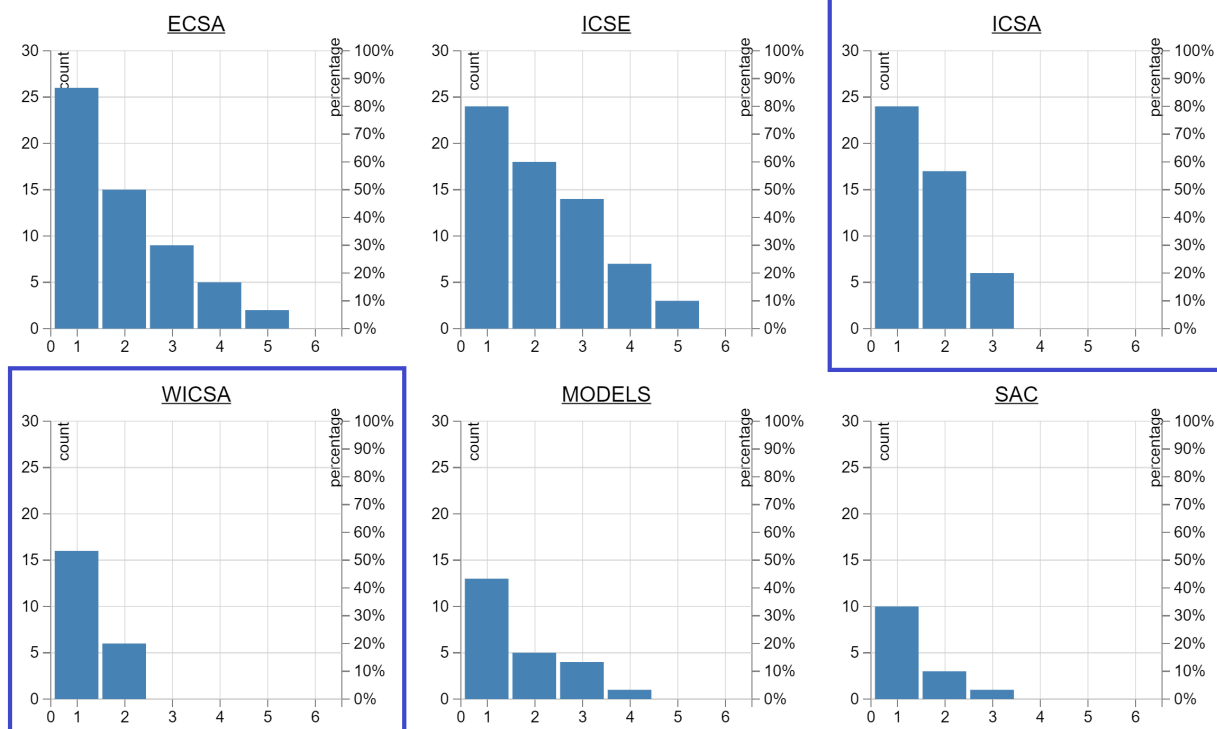
Top (Senior) Program Committee Members

Generated Report Name: conf_submissions_top_spc/higherrank1166_top_spc.csv

WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/higherrank1166_spc_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1166_spc_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.



Reference item: \\ 3. International Conference on Software Architecture (ICSA)

This conference was published at 63 times by 24 of 30 experts in the last 5 years.

The experts that publish at this conference are: Vittorio Cortellessa(4), Ralf H. Reussner(3), Francesca Arcelli Fontana(1), Raffaella Mirandola(1), David Garlan(1), Paris Avgeriou(3), Peng Liang 0001(2), Luciano Baresi(1), Rick Kazman(2), Rafael Capilla(1), Neil A. Ernst(4), Steffen Becker 0001(2), Muhammad Ali Babar(3), Antony Tang(3), Wilhelm Hasselbring(4), Philippe Kruchten(2), Patricia Lago(7), Cesare Pautasso(2), Heiko Koziulek(3), Henry Muccini(5), Grace A. Lewis(2), Uwe Zdun(4), Patrizio Pelliccione(6), Danny Weyns(4)

In 2017, there were 26 publications by 18 experts: Patricia Lago, Cesare Pautasso, Peng Liang 0001, Antony Tang, Heiko Koziulek, Philippe Kruchten, Wilhelm Hasselbring, Francesca Arcelli Fontana, Ralf H. Reussner, Henry Muccini, Danny Weyns, Rick Kazman, Rafael Capilla, Neil A. Ernst, Grace A. Lewis, Uwe Zdun, Steffen Becker 0001, Paris Avgeriou

In 2018, there were 12 publications by 8 experts: Patricia Lago, Heiko Koziulek, Vittorio Cortellessa, Neil A. Ernst, Steffen Becker 0001, Uwe Zdun, Patrizio Pelliccione, Grace A. Lewis

In 2019, there were 17 publications by 15 experts: Vittorio Cortellessa, Ralf H. Reussner, Peng Liang 0001, Patricia Lago, Philippe Kruchten, Wilhelm Hasselbring, Raffaella Mirandola, Muhammad Ali Babar, Henry Muccini, Danny Weyns, Rick Kazman, Neil A. Ernst, Uwe Zdun, Patrizio Pelliccione, Paris Avgeriou

In 2020, there were 8 publications by 6 experts: Muhammad Ali Babar, Wilhelm Hasselbring, Henry Muccini, Luciano Baresi, David Garlan, Patrizio Pelliccione

24 out of the 30 experts published at this conference in 1 or more years

17 out of the 30 experts published at this conference in 2 or more years

6 out of the 30 experts published at this conference in 3 or more years

4. Working IEEE/IFIP Conference on Software Architecture (WICSA)

This conference was published at 23 times by 16 of 30 experts in the last 5 years.

The experts that publish at this conference are: Patricia Lago(3), Ralf H. Reussner(1), Peng Liang 0001(1), Antony Tang(2), Heiko Koziulek(1), Ivica Crnkovic(1), Francesca Arcelli Fontana(1), Cesare Pautasso(3), Grace A. Lewis(1), Danny Weyns(3), Rick Kazman(3), Rafael Capilla(3), Neil A. Ernst(1), Uwe Zdun(2), Patrizio Pelliccione(1), Paris Avgeriou(2)

In 2015, there were 8 publications by 9 experts: Heiko Koziulek, Cesare Pautasso, Peng Liang 0001, Antony Tang, Danny Weyns, Rick Kazman, Uwe Zdun, Patrizio Pelliccione, Paris Avgeriou

In 2016, there were 15 publications by 13 experts: Patricia Lago, Ralf H. Reussner, Antony Tang, Ivica Crnkovic, Francesca Arcelli Fontana, Cesare Pautasso, Grace A. Lewis, Danny Weyns, Rick Kazman, Rafael Capilla, Neil A. Ernst, Uwe Zdun, Paris Avgeriou

16 out of the 30 experts published at this conference in 1 or more years

6 out of the 30 experts published at this conference in 2 or more years

===== ICSA and WICSA combined (2016 from WICSA, 2017-2020 from ICSA) =====

0. International Conference on Software Architecture ((W)ICSA)

This conference was published at 78 times by 24 of 30 experts in the last 5 years.

The experts that publish at this conference are: Vittorio Cortellessa(4), Ralf H. Reussner(4), Francesca Arcelli Fontana(2), Raffaella Mirandola(1), David Garlan(1), Paris Avgeriou(4), Peng Liang 0001(2), Luciano Baresi(1), Rick Kazman(4), Rafael Capilla(4), Neil A. Ernst(1), Steffen Becker 0001(2), Muhammad Ali Babar(3), Antony Tang(4), Wilhelm Hasselbring(4), Philippe Kruchten(2), Patricia Lago(10), Cesare Pautasso(4), Heiko Koziulek(3), Henry Muccini(5), Grace A. Lewis(1), Uwe Zdun(5), Patrizio Pelliccione(6), Danny Weyns(6), Ivica Crnkovic(1)

In 2016, there were 15 publications by 13 experts: Patricia Lago, Ralf H. Reussner, Antony Tang, Ivica Crnkovic, Francesca Arcelli Fontana, Cesare Pautasso, Grace A. Lewis, Danny Weyns, Rick Kazman, Rafael Capilla, Neil A.

Ernst, Uwe Zdun, Paris Avgeriou

In 2017, there were 26 publications by 18 experts: Patricia Lago, Cesare Pautasso, Peng Liang 0001, Antony Tang, Heiko Kozirolek, Philippe Kruchten, Wilhelm Hasselbring, Francesca Arcelli Fontana, Ralf H. Reussner, Henry Muccini, Danny Weyns, Rick Kazman, Rafael Capilla, Neil A. Ernst, Grace A. Lewis, Uwe Zdun, Steffen Becker 0001, Paris Avgeriou

In 2018, there were 12 publications by 8 experts: Patricia Lago, Heiko Kozirolek, Vittorio Cortellessa, Neil A. Ernst, Steffen Becker 0001, Uwe Zdun, Patrizio Pelliccione, Grace A. Lewis

In 2019, there were 17 publications by 15 experts: Vittorio Cortellessa, Ralf H. Reussner, Peng Liang 0001, Patricia Lago, Philippe Kruchten, Wilhelm Hasselbring, Raffaella Mirandola, Muhammad Ali Babar, Henry Muccini, Danny Weyns, Rick Kazman, Neil A. Ernst, Uwe Zdun, Patrizio Pelliccione, Paris Avgeriou

In 2020, there were 8 publications by 6 experts: Muhammad Ali Babar, Wilhelm Hasselbring, Henry Muccini, Luciano Baresi, David Garlan, Patrizio Pelliccione

24 out of the 30 experts published at this conference in 1 or more years

21 out of the 30 experts published at this conference in 2 or more years

11 out of the 30 experts published at this conference in 3 or more years

3 out of the 30 experts published at this conference in 4 or more years

Top People Report

Method of selection: 1) we made a search with keyword "software architecture" on the research areas on Google Scholar. The resulting list is at https://scholar.google.com/citations?hl=en&view_op=search_authors&mauthors=label:software_architecture (on Dec 26, 2020);

2) we removed from that list anybody with h-index ≤ 45 and not working on Software Architecture/Software Engineering;

3) this search returned 15 researchers;

4) we then searched for Software Architecture books on Amazon: we collected the first 50 books, and selected those authors with h-index ≥ 45 not already included in the previous list.

5) we then added five colleagues that are "prominent" (that means, extremely well known and active in the field) in the area of software architecture, and with h-index greater than 45.

Keyword:

name	h-index	gscholar url
Grady Booch	56	https://scholar.google.com/citations?hl=it&user=Y0iLlFoAAAAJ
David Garlan	77	https://scholar.google.com/citations?hl=it&user=h9t7KCcAAAAJ
Richard Taylor	54	https://scholar.google.com/citations?hl=it&user=h9t7KCcAAAAJ
David Weiss	84	https://scholar.google.com/citations?hl=it&user=h9t7KCcAAAAJ
Rick Kazman	54	https://scholar.google.com/citations?hl=it&user=NUJQv_oAAAAJ
Len Bass	54	https://scholar.google.com/citations?hl=it&user=xB1Z6VwAAAAJ
Mary Shaw	55	https://scholar.google.com/citations?hl=it&user=CTXo01AAAAJ
Philippe Kruchten	47	https://scholar.google.com/citations?hl=it&user=u74gQEUEAAAAJ
Nenad Medvidovic	59	https://scholar.google.com/citations?hl=it&user=kqW_-2gAAAAJ
Bernhard Rumpe	62	https://scholar.google.co.in/citations?hl=en&user=nED1C7QAAAAJ&view_op=list_works&sortby=pub
Sjaak Brinkkemper	54	https://scholar.google.com/citations?hl=en&user=yC-jfT0AAAAJ
Danny Weyns	45	https://scholar.google.com/citations?hl=it&user=MG8iJPAAAAJ
Muhammad Ali Babar	48	https://scholar.google.com/citations?hl=it&user=oagBheUAAAAJ
Sam Malek	45	https://scholar.google.com/citations?hl=it&user=qrCVPOYAAAAJ
Claus Pahl	46	https://scholar.google.com/citations?hl=it&user=2BSGakgAAAAJ
Jan Bosch	63	https://scholar.google.com/citations?hl=it&user=W6oSWIAAAAAJ
Jeff Kramer	66	https://scholar.google.com/citations?hl=it&user=t-fuDjMAAAAAJ
Luciano Baresi	49	https://scholar.google.com/citations?hl=it&user=xvzzSFgAAAAJ
Frank Leymann	82	https://scholar.google.com/citations?hl=it&user=qRnegTsAAAAJ
Carlo Ghezzi	58	https://scholar.google.com/citations?hl=it&user=Y8BLBGcAAAAJ

Reference item: \ 2. International Conference on Software Architecture (ICSA)

This conference was published at 26 times by 13 of 20 experts in the last 5 years.

The experts that publish at this conference are: Muhammad Ali Babar(3), Bernhard Rumpe(1), Nenad Medvidovic(4), Len Bass(1), Jan Bosch(4), David Garlan(1), Luciano Baresi(1), Danny Weyns(4), Rick Kazman(2), Sam Malek(2), Philippe Kruchten(2), Frank Leymann(1), Sjaak Brinkkemper(1)

In 2017, there were 12 publications by 10 experts: Jan Bosch, Nenad Medvidovic, Len Bass, Bernhard Rumpe, Danny Weyns, Rick Kazman, Sam Malek, Philippe Kruchten, Frank Leymann, Sjaak Brinkkemper

In 2018, there were 2 publications by 1 experts: Nenad Medvidovic

In 2019, there were 7 publications by 5 experts: Muhammad Ali Babar, Jan Bosch, Philippe Kruchten, Danny Weyns, Rick Kazman

In 2020, there were 5 publications by 5 experts: Nenad Medvidovic, Sam Malek, Luciano Baresi, Muhammad Ali Babar, David Garlan

13 out of the 20 experts published at this conference in 1 or more years

7 out of the 20 experts published at this conference in 2 or more years

1 out of the 20 experts published at this conference in 3 or more years

5. Working IEEE/IFIP Conference on Software Architecture (WICSA)

This conference was published at 15 times by 7 of 20 experts in the last 5 years.

The experts that publish at this conference are: Nenad Medvidovic(3), Jan Bosch(3), Danny Weyns(3), Rick Kazman(3), Sam Malek(1), Frank Leymann(1), Sjaak Brinkkemper(1)

In 2015, there were 5 publications by 5 experts: Jan Bosch, Nenad Medvidovic, Frank Leymann, Rick Kazman, Danny Weyns

In 2016, there were 10 publications by 6 experts: Nenad Medvidovic, Danny Weyns, Rick Kazman, Sam Malek, Jan Bosch, Sjaak Brinkkemper

7 out of the 20 experts published at this conference in 1 or more years

4 out of the 20 experts published at this conference in 2 or more years WPP Report:

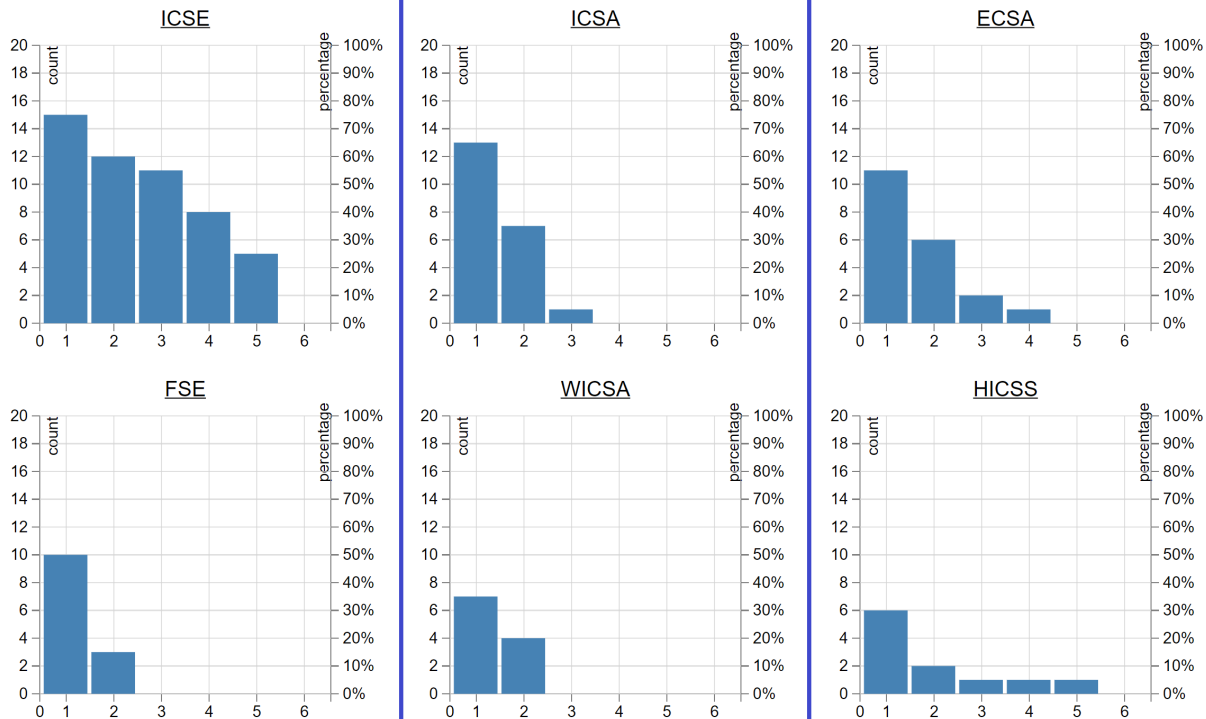
http://portal.core.edu.au/core/media/conf_rank_report/higherrank1166_top_people_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1166_top_people_graph.png

[Additional 150 conferences](#)

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.



Other Information

Comparator Comparison

Comparator

International Symposium on Software Reliability Engineering

Explanation as to why conference is superior to comparator:

- ISSRE has lower h5 index than (W)ICSA (21 for ISSRE, 24 for (W)ICSA) - ISSRE has higher acceptance rate than ICSA (29% average acceptance rate for ISSRE 2017-2019, 23% average acceptance rate for ICSA 2017-2019) - ISSRE has lower h-index of chairs than ICSA (average h-index of ISSRE 2017-2019 chairs is 23, average h-index of ICSA 2017-2019 chairs is 32) - ISSRE has lower numbers of publications by top PC members at the conference (only 17 out of 30 PC experts published at ISSRE in the 5 past years, 14 of which 2 or more years; while 24 out of 30 PC experts published at (W)ICSA in the 5 past years, 21 of which 2 or more years) - The remaining characteristics of the conferences are comparable. Overall both ECSA and ISSRE are high quality conferences but while ISSRE has its Google Scholar category on reliability, there is no category on software architecture, which harms the visibility of ICSA (and other software architecture conferences) in its category. - For more structured comparison, see the attached excel file.

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1166_668.pdf

Comparator

International Conference on Evaluation and Assessment in Software Engineering

Explanation as to why conference is superior to comparator:

- EASE has lower h5 index than (W)ICSA (20 for EASE, 24 for (W)ICSA) - EASE has higher acceptance rate than ICSA (30% average acceptance rate for EASE 2017-2019, 23% average acceptance rate for ICSA 2017-2019) - Despite the much higher acceptance rate, EASE has smaller absolute number of publications (59 accepted full papers over 2017-2019 in EASE, 64 accepted full papers over 2017-2019 in ICSA) and substantially lower number of submissions - EASE has lower numbers of publications by top PC members at the conference (23 out of 32 PC experts published at EASE in the 5 past years, 14 of which 2 or more years; while 24 out of 30 PC experts published at (W)ICSA in the 5 past years, 21 of which 2 or more years) - The websites of EASE are not very well maintained. Both 2019 and 2017 websites were down when we were checking them. - For more structured comparison, see the attached excel file.

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1166_979.pdf

Comparator

International Conference on Software and System Processes (was ICSP prior to 2011)

Explanation as to why conference is superior to comparator:

- ICSSP has much lower h5 index than (W)ICSA (14 for ICSSP, 24 for (W)ICSA) as well as median h5 index (18 for ICSSP, 32 for (W)ICSA) - ICSSP is much smaller than ICSA (33 full papers published in ICSSP 2017-2019, 64 full papers published in ICSA 2017-2019) - ICSSP has much lower h-index of chairs than ICSA (average h-index of ICSSP 2017-2019 chairs is 21, average h-index of ICSA 2017-2019 chairs is 32) - A number of chairs have no Google Scholar profile - ICSSP has much lower numbers of publications by top PC members at the conference (the conference does not even appear in the graphs, only its precursor workshop appears on 10th place, with only 3 experts who published there), while 24 out of 30 PC experts published at (W)ICSA in the 5 past years, 21 of which 2 or more years - For more structured comparison, see the attached excel file. - ICSSP is overall much weaker than ICSA.

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1166_981.pdf

Comparator

European Conference on Software Architecture

Explanation as to why conference is superior to comparator:

- ECSA has lower h5 index than (W)ICSA (17 for ECSA, 24 for (W)ICSA) and lower median h5 index (20 for ECSA, 32 for (W)ICSA) - ECSA is smaller than ICSA (37 full papers published in ECSA 2017-2019, 64 full papers published in ICSA 2017-2019) - The acceptance rate of both conferences seems to be very similar. At first, the acceptance rate of ECSA appears to be lower but that is because ECSA computes the acceptance rate based on the ratio of submitted full+short papers to the accepted full papers. It is not reported how many full papers were submitted but it can be expected that if the ratio was computed based on submitted full papers only, it would be very similar to ICSA (see the description in <https://link.springer.com/content/pdf/bfm%3A978-3-030-29983-5%2F1.pdf>). - For more structured comparison, see the attached excel file. - The remaining characteristics of the conferences are comparable. Overall both ECSA and ICSA are excellent conferences, being the most relevant and prestigious venues for high-quality software-architecture research, synchronized to have their deadlines 6 months apart (ICSA is a Spring conference, ECSA is an Autumn conference).

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1166_1028.pdf

Comparator

IEEE International Conference on Engineering of Complex Computer Systems

Explanation as to why conference is superior to comparator:

- ICECCS has much lower h5 index than (W)ICSA (10 for ICECCS, 24 for (W)ICSA) as well as median h5 index (16 for ICECCS, 32 for (W)ICSA) - ICECCS has much higher acceptance rate than ICSA (36% average acceptance rate for ICECCS 2017-2019, 23% average acceptance rate for ICSA 2017-2019) - ICECCS has much lower h-index of chairs than ICSA (average h-index of ICECCS 2017-2019 chairs is 20, average h-index of ICSA 2017-2019 chairs is 32) - ICECCS seems to have no publications by top PC members at the

conference (the conference does not even appear in the graphs, see the corresponding section in the form, while (W)ICSA has most of its top PC members publishing at (W)ICSA. - For more structured comparison, see the attached excel file. - ICECCS is overall much weaker than ICSA.

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1166_1079.pdf

Other Relvant Info

Other relevant information: Dear CORE Ranking Evaluation Committee,

The International Conference of Software Architecture (ICSA) was formally known as Working IEEE/IFIP Conference on Software Architecture (WICSA). WICSA has enjoyed the privilege of being a CORE Rank A conference for many years. And we see that its quality and popularity among researchers is since its transition into ICSA further growing. It is very unfortunate that with the new name, ranking data in many rankings have fallen apart. In the "Letter-from-ICSA-Steering-Committee-chairs.pdf" attached below, we give details of why we believe that ICSA fully deserves the CORE Rank A. And in the attached "ICSA-ComparatorConferences.xlsx" we also give a concise comparison of ICSA to some of our candidate comparator conferences. In this round of CORE ranking, we trust that the CORE evaluation committee would see ICSA as the premier conference in software architecture and credit it with a Rank A.

Yours sincerely,

Barbora Buhnova and Henry Muccini ICSA Steering Committee chairs Czech Republic & Italy, Dec 30, 2020

Attachments

http://portal.core.edu.au/core/media/request_attachment/Letter-from-ICSA-Steering-Committee-chairs.pdf

http://portal.core.edu.au/core/media/request_attachment/ICSA-ComparatorConferences.xlsx.pdf

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