



**Submission Data for 2020-2021 CORE conference Ranking process
IEEE International Conference on e-Science and Grid Computing**

Kyle Chard

Conference Details

Conference

Title: IEEE International Conference on e-Science and Grid Computing
Acronym : e-Science
Rank: A

Requested Rank

Rank: A

Recent Years

Proceedings Publishing Style

Proceedings Publishing: self-contained

Link to most recent proceedings: <https://ieeexplore.ieee.org/xpl/conhome/9036011/proceeding>

Further details: The proceedings are published by IEEE and include only papers at the eScience conference. The proceedings separates papers into the various main tracks (in focus areas) as well as various workshops for that year.

Most Recent Years

Most Recent Year

Year: 2019

URL: <https://escience2019.sdsc.edu/>

Location: San Diego, USA

Papers submitted: 98

Papers published: 25

Acceptance rate: 26

Source for numbers: <https://escience-conference.org/escience-statistics/>

General Chairs

Name: Ilkay Altintas Affiliation: University of California San Diego, USA Gender: F H Index: 32 GScholar url: https://scholar.google.co.nz/citations?user=PiGurmAAAAAJ&hl=en DBLP url: https://dblp.org/pid/95/6475.html
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Program Chairs

Name: David Abramson Affiliation: University of Queensland Gender: M H Index: 41 G Scholar url: https://scholar.google.co.nz/citations?hl=en&user=o5NbsPEAAAAJ DBLP url: https://dblp.org/pid/09/6203.html
Name: Adam Belloum Affiliation: Universiteit van Amsterdam, Netherlands Gender: M H Index: 22 G Scholar url: https://scholar.google.com/citations?user=tzFsIF4AAAAJ&hl=en DBLP url: https://dblp.org/pid/22/6302.html
Name: Amarnath Gupta Affiliation: UC San Diego, USA Gender: M H Index: G Scholar url: DBLP url: https://dblp.org/pid/g/AmarnathGupta.html

Second Most Recent Year

Year: 2018

URL: <https://www.escience2018.com/>

Location: Amsterdam, Netherlands

Papers submitted: 85

Papers published: 29

Acceptance rate: 34

Source for numbers: <https://escience-conference.org/escience-statistics/>

General Chairs

Name: Wilco Hazeleger Affiliation: Utrecht University Gender: M H Index: 48 G Scholar url: https://scholar.google.com/citations?user=wxy6sGIAAAAAJ&hl=en DBLP url:

Program Chairs

Name: Ben van Wekhoven Affiliation: Netherlands eScience Center Gender: M H Index: 9 G Scholar url: https://scholar.google.com/citations?hl=en&user=4xmF9_sAAAAJ DBLP url:
Name: Adrienne Mendrik Affiliation: Netherlands eScience Center Gender: F H Index: 11 G Scholar url: https://scholar.google.com/citations?hl=en&user=JEhtECQAAAAJ DBLP url:
Name: Rob van Nieuwpoort Affiliation: University of Amsterdam Gender: M H Index: 30 G Scholar url: https://scholar.google.com/citations?hl=en&user=z7-NbJOAAAAJ DBLP url:

Third Most Recent Year

Year: 2017

URL: <http://escience2017.org.nz>

Location: Auckland, New Zealand

Papers submitted: 92

Papers published: 33

Acceptance rate: 36

Source for numbers: <https://escience-conference.org/escience-statistics/>

General Chairs

Name: Michael Black Affiliation: University of Otago Gender: M H Index: 40 GScholar url: https://scholar.google.co.nz/citations?user=n3VGIBcAAAAJ&hl=en DBLP url:
Name: Nick Jones Affiliation: New Zealand eScience Infrastructure Gender: M H Index: GScholar url: DBLP url:

Program Chairs

Name: David Abramson Affiliation: University of Queensland Gender: M H Index: 41 GScholar url: https://scholar.google.co.nz/citations?hl=en&user=o5NbsPEAAAAJ DBLP url: https://dblp.org/pid/09/6203.html
Name: Gillian Dobbie Affiliation: University of Auckland Gender: F H Index: 29 GScholar url: https://scholar.google.co.nz/citations?user=v19BUHIAAAAJ&hl=en DBLP url: https://dblp.org/pid/d/GDobbie.html
Name: David Eyers Affiliation: University of Otago Gender: M H Index: 28 GScholar url: https://scholar.google.co.nz/citations?hl=en&user=TjohXzMAAAAJ DBLP url: https://dblp.org/pid/55/684.html

Policies

Chair Selection: The steering committee solicits proposals from the community to host the eScience conference. The proposals include information about the location, facilities, chairs, and tentative committees. The steering committee reviews the proposals and votes on the candidates to select the hosts for the conference.
No Policies.

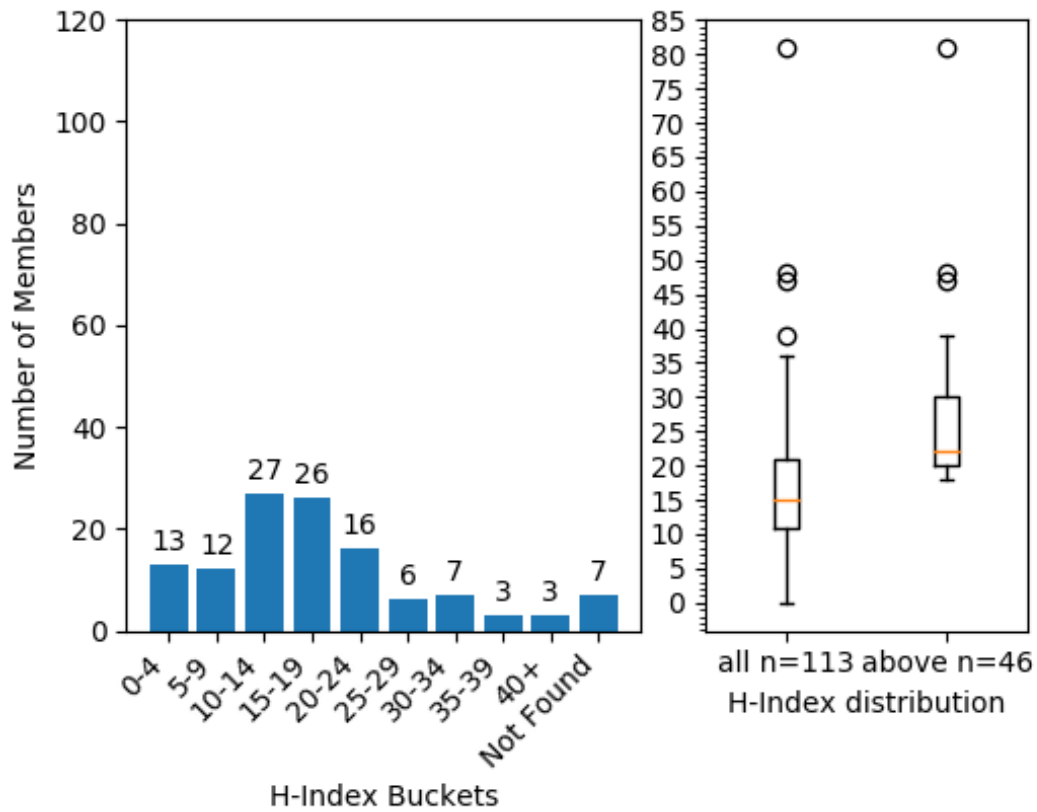
(Senior) Program Committee

Link to (s)pc: <https://escience2019.sdsc.edu/pc>

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

H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1287.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_computingsystems

Position in sub-category: 20+

Image of top 20: http://portal.core.edu.au/core/media/changes_h5/higherrank1287_gsolar_minh5.png

Categories > Engineering & Computer Science > Computing Systems ▾

	Publication	h5-index	h5-median
1.	IEEE Internet of Things Journal	93	140
2.	Future Generation Computer Systems	86	127
3.	IEEE Transactions on Parallel and Distributed Systems	69	106
4.	Symposium on Networked Systems Design and Implementation	65	106
5.	International Symposium on Computer Architecture (ISCA)	55	103
6.	International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)	55	88
7.	IEEE Transactions on Services Computing	55	86
8.	IEEE International Symposium on High Performance Computer Architecture	53	86
9.	IEEE Transactions on Cloud Computing	52	77
10.	USENIX Annual Technical Conference	45	70
11.	IEEE/ACM International Symposium on Microarchitecture	45	69
12.	The Journal of Supercomputing	45	59
13.	International Conference for High Performance Computing, Networking, Storage and Analysis	44	58
14.	Cluster Computing	43	60
15.	Symposium on Operating Systems Principles	42	77
16.	ACM European Conference on Computer Systems	42	63
17.	International Journal of Distributed Sensor Networks	42	58
18.	Conference on File and Storage Technologies (FAST)	41	74
19.	Journal of Parallel and Distributed Computing	40	56
20.	International Conference on Distributed Computing Systems, ICDCS	39	58

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

No Google Scholar h5 index available for this conference

Potential reason for no h5 index: eScience is a unique conference that bridges systems research and applied computing research. As such, it does not fit any of the Google Scholar subcategories. We note however, that this is an important area of active research with significant novel and impactful work.

ACM Metrics

Not Sponsored by ACM

Aminer Rank

Not Listed in Aminer

Other Rankings

Not aware of any other Rankings

Conferences in area: eScience fills an important gap between applied computer science and cyberinfrastructure. While some conferences have such tracks, there are few locations that focus in this area. Related conferences include HPDC Supercomputing eScience IPDPS CCGrid ICCS BigData UCC Cloud PEARC

Top People Publishing Here

name: Ian Foster

justification: Foster is one of the world's leading computer scientists with an h-index of 133, more than 120K citations, and hundreds of publications. Foster is a fellow of the AAAS, ACM, and IEEE, and an Office of Science Distinguished Scientists Fellow. His awards include the Ada Lovelace Medal from the British Computer Society and the IEEE Computer Society Charles Babbage and Tsutomu Kanai Awards.

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
3	2	7	1	2

Attendance: ALWAYS

name: Rajkumar Buyya

justification: Buyya is a world leader in distributed computing with an h-index of 139 and more than 100K citations. Buyya is a Fellow of IEEE and Life Member of ACM. He has received countless awards including Chris Wallace Award for Outstanding Research

Contribution, IEEE TCSC Medal for Excellence in Scalable Computing, Scopus Researcher of the Year 2017 with Excellence in Innovative Research Award by Elsevier.

Paper counts:

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

Attendance: OFTEN

name: Ewa Deelman

justification: Deelman has an h-index of 71 with 26K citations. Deelman is well-known for her contributions to the Pegasus workflow system and to many scientific domains including instrumental work in LIGO. She is an AAAS fellow and IEEE Fellow. She was awarded the HPDC achievement award in 2015.

Paper counts:

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

Attendance: ALWAYS

name: Manish Parashar

justification: Parashar has an h-index of 58 with almost 14K citations. Parashar is currently serving as Assistant Director for Strategic Computing at the Whitehouse Office of Science and Technology Policy (OSTP), where he is leading strategic planning for the Nation's Future Advanced Computing Ecosystem. He was elected to IEEE Computer Society's Golden Core in 2016. He is a Fellow of AAAS, Fellow of IEEE / IEEE Computer Society, and ACM Distinguished Scientist. He received a 2013 R & D 100 Award (with ORNL and GT), Peter D. Cherasia Faculty Scholar Award from the Rutgers School of Engineering (2014 - 2017), IBM Faculty Awards in 2008 and 2010, among other awards. Manish is the founding chair of the IEEE Technical Consortium on High-Performance Computing. Parashar serves on the editorial boards and organizing committees of a large number of journals and international conferences and workshops.

Paper counts:

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

Attendance: OFTEN

name: Alex Szalay

justification: Szalay is a leading computational scientist with a h-index of 116 and 97K citations. Szalay chaired eScience 2016. He is a Corresponding Member of the Hungarian Academy of Sciences, and a Fellow of the American Academy of Arts and Sciences. In 2004 he received an Alexander Von Humboldt Award in Physical Sciences, in 2007 the Microsoft Jim Gray Award, in 2015 the Sidney Fernbach Award.

Paper counts:

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

Attendance: SOMETIMES

name: Shantenu Jha

justification: Jha is a leading cyberinfrastructure and applied computing research with an h-index of 31. Jha was the recipient of the inaugural Chancellor's Excellence in Research (2016) for his cyberinfrastructure contributions to computational science. He was also awarded a Rutgers Board of Trustees Fellowship for Scholarly Excellence (2014). He is a recipient of the NSF CAREER Award (2013) and several best paper prizes at SC'13 and ISC'13. Part of the team winning the Gordon Bell COVID award 2020.

Paper counts:

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

Attendance: ALWAYS

name: Ilkay Altintas

justification: Ilkay Altintas is the Chief Data Science Officer at the San Diego Supercomputer Center (SDSC), UC San Diego. She has an h-index of 32. Altintas is the recipient of the first SDSC Pi Person of the Year in 2014, and the IEEE TCSC Award for Excellence in Scalable Computing for Early Career Researchers in 2015.

Paper counts:

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

Attendance: ALWAYS

name: Geoffrey Fox

justification: Fox has an h-index of 83 and a world leader in computer science and in particular the application of computer science and cyberinfrastructure to a wide range of domains. He has supervised 68 Ph.D. students and published around 1200 papers. He is a Fellow of APS (Physics) and ACM (Computing). He received the ACM-IEEE Ken Kennedy award in 2019 and the Mayhew prize in 1964.

Paper counts:

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

Attendance: SOMETIMES

name: Yolanda Gil

justification: Gil is a leading computer scientist focusing on knowledge discovery and AI. She has an h-index of 64 and 35K citations. She served as chair of SIGAI the ACM Special Interest Group on Artificial Intelligence, and the president of the Association for the Advancement of Artificial Intelligence (AAAI). She is a fellow of the ACM and AAI.

Paper counts:

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

Attendance: OFTEN

name: David Abramson

justification: Abramson is a leading high performance and distributed computing researcher with an h-index of 41 and 12K citations.

Abramson is a Fellow of the IEEE, ACM, Australian Academy of Technological Sciences and Engineering, and the Australian Computer Society. He was awarded the 2019 Pearcey Medal and is president of the Computing Research and Education Association of Australasia.

Paper counts:

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

Attendance: ALWAYS

Where People Publish

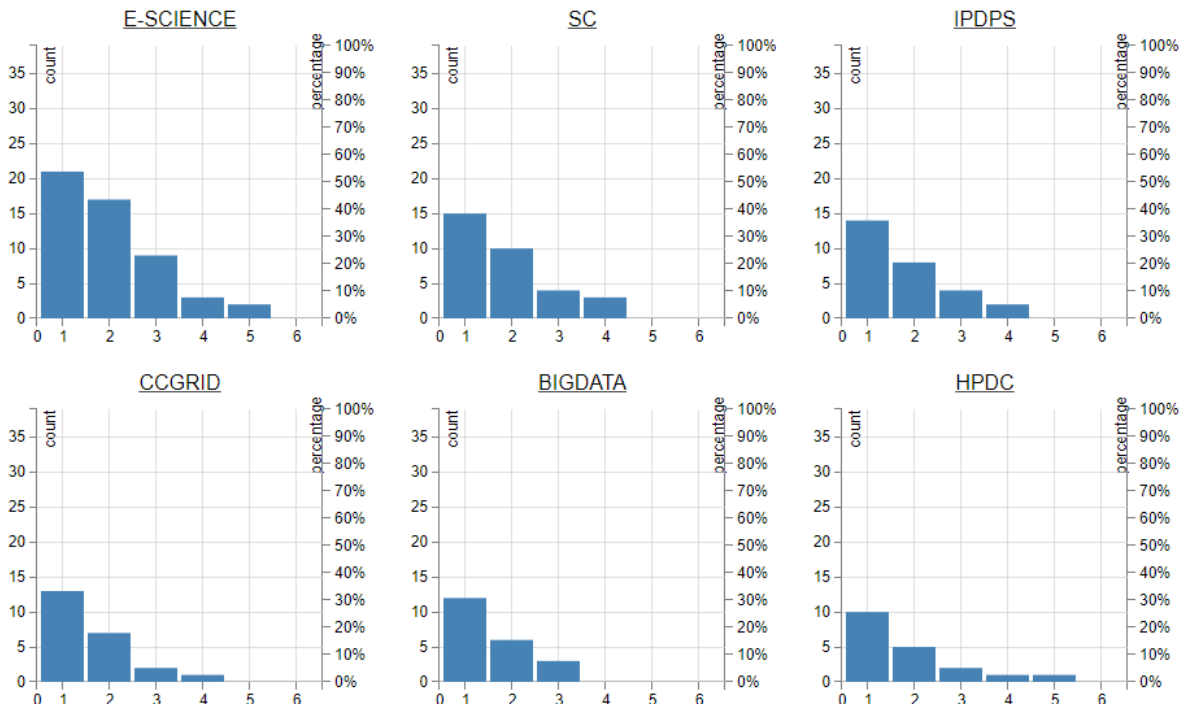
Top (Senior) Program Committee Members

Generated Report Name: conf_submissions_top_spc/higherrank1287_top_spc.csv

WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/higherrank1287_spc_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1287_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: \\ 1. IEEE International Conference on e-Science and Grid Computing (E-Science)

This conference was published at 79 times by 21 of 39 experts in the last 5 years.

The experts that publish at this conference are: Henri E. Bal(2), Thomas Fahringer(1), Daniel S. Katz(6), Tams Budavri(2), Bertram Ludscher(2), Achim Streit(3), Jos A. B. Fortes(3), Paul Roe(8), Lavanya Ramakrishnan(3), Malcolm P. Atkinson(6), Shantenu Jha(10), Simon J. Cox(2), Qishi Wu(2), Geoffrey Charles Fox(2), Dan Gunter(3), Tristan Glatard(1), Rajkumar Kettimuthu(5), Marta Mattoso(2), Jason Maassen(5), Ian T. Foster(15), David C. H. Wallom(4)

In 2015, there were 16 publications by 12 experts: Daniel S. Katz, Henri E. Bal, Tams Budavri, Achim Streit, Simon J. Cox, Paul Roe, Malcolm P. Atkinson, Marta Mattoso, Dan Gunter, Jason Maassen, Ian T. Foster, David C. H. Wallom
In 2016, there were 6 publications by 6 experts: David C. H. Wallom, Tams Budavri, Jos A. B. Fortes, Paul Roe, Shantenu Jha, Ian T. Foster

In 2017, there were 19 publications by 10 experts: Rajkumar Kettimuthu, Achim Streit, Jos A. B. Fortes, Lavanya Ramakrishnan, Shantenu Jha, Qishi Wu, Dan Gunter, Daniel S. Katz, Paul Roe, Ian T. Foster

In 2018, there were 17 publications by 9 experts: Rajkumar Kettimuthu, Daniel S. Katz, Henri E. Bal, Lavanya Ramakrishnan, Simon J. Cox, Jason Maassen, Paul Roe, Shantenu Jha, Ian T. Foster

In 2019, there were 21 publications by 15 experts: Rajkumar Kettimuthu, David C. H. Wallom, Bertram Ludscher, Achim Streit, Jos A. B. Fortes, Jason Maassen, Malcolm P. Atkinson, Marta Mattoso, Shantenu Jha, Ian T. Foster, Thomas Fahringer, Tristan Glatard, Qishi Wu, Paul Roe, Geoffrey Charles Fox

21 out of the 39 experts published at this conference in 1 or more years
 17 out of the 39 experts published at this conference in 2 or more years
 9 out of the 39 experts published at this conference in 3 or more years
 3 out of the 39 experts published at this conference in 4 or more years
 2 out of the 39 experts published at this conference in 5 or more years

Top People Report

Method of selection: We entered the search term "eScience" in Google Scholar and identified the first 20 authors with an h-index above 45 in these results.

Keyword: eScience

name	h-index	gscholar url
Geoffrey Fox	83	https://scholar.google.com/citations?user=dJ-fD-sAAAAJ
David De Roure	61	https://scholar.google.com/citations?user=ETrbpjsAAAAJ
Dennis Gannon	63	https://scholar.google.com/citations?hl=en&user=atADLJgAAAAJ
Ian T. Foster	133	https://scholar.google.com/citations?hl=en&user=VGoSakQAAAAJ
Ewa Deelman	71	https://scholar.google.com/citations?hl=en&user=VGoSakQAAAAJ
Rajkumar Buyya	139	https://scholar.google.com/citations?hl=en&user=7xN6JqYAAAAJ
Carole Goble	82	https://scholar.google.com/citations?user=ETrbpjsAAAAJ
Jane Hunter	45	https://scholar.google.com/citations?hl=en&user=JMiJkd4AAAAJ
Alexander Szalay	116	https://scholar.google.com/citations?hl=en&user=JMiJkd4AAAAJ
Manish Parashar	58	https://scholar.google.com/citations?hl=en&user=SCM351MAAAAAJ
Dan Henningson	65	https://scholar.google.com/citations?hl=en&user=FOBtbr4AAAAJ
Larry Smarr	49	https://scholar.google.com/citations?hl=en&user=oZafLf4AAAAJ
Carl Kesselman	84	https://scholar.google.com/citations?user=5c38WvcAAAAJ&hl=en&oi=sra
Sean Bechofer	48	https://scholar.google.com/citations?user=XRzazaOAAAAJ&hl=en&oi=sra
Yolanda Gil	644	https://scholar.google.com/citations?user=XRzazaOAAAAJ&hl=en&oi=sra
Miron Livny	87	https://scholar.google.com/citations?user=nFdbcvSAAAAJ&hl=en
Omer Rana	49	https://scholar.google.com/citations?hl=en&user=Tbo0BAMAAAAJ
Henri Bal	59	https://scholar.google.com/citations?hl=en&user=ZUTFG_YAAAAJ
Thomas Fahringer	50	https://scholar.google.com/citations?hl=en&user=ZUTFG_YAAAAJ
Robert Stevens 0001	65	https://scholar.google.com/citations?user=P7ACZMQAAAAJ&hl=en&oi=sra

Reference item: \ 1. IEEE International Conference on e-Science and Grid Computing (E-Science)

 This conference was published at 48 times by 15 of 20 experts in the last 5 years.

The experts that publish at this conference are: Dennis Gannon(1), Manish Parashar(4), Henri E. Bal(2), Alexander S. Szalay(3), Yolanda Gil(5), David De Roure(2), Geoffrey C. Fox(2), Dan S. Henningson(1), Jane Hunter(1), Thomas Fahringer(1), Ewa Deelman(6), Rajkumar Buyya(2), Larry Smarr(1), Ian T. Foster(15), Carl Kesselman(3)

In 2015, there were 6 publications by 5 experts: Alexander S. Szalay, Yolanda Gil, Ian T. Foster, Henri E. Bal, Jane Hunter

In 2016, there were 9 publications by 7 experts: Manish Parashar, Ewa Deelman, Alexander S. Szalay, Yolanda Gil, David De Roure, Ian T. Foster, Carl Kesselman

In 2017, there were 15 publications by 6 experts: Rajkumar Buyya, Ewa Deelman, Carl Kesselman, David De Roure, Ian T. Foster, Manish Parashar

In 2018, there were 4 publications by 4 experts: Yolanda Gil, Ian T. Foster, Manish Parashar, Henri E. Bal

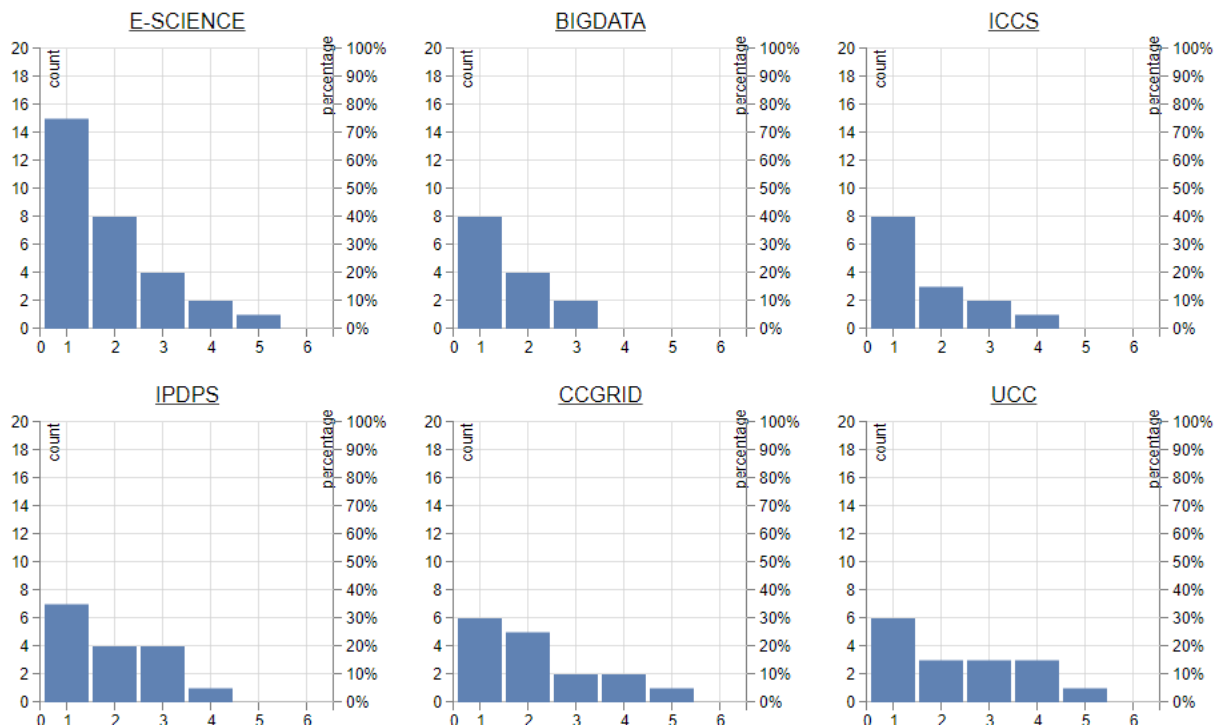
In 2019, there were 14 publications by 8 experts: Geoffrey C. Fox, Dan S. Henningson, Dennis Gannon, Thomas Fahringer, Ewa Deelman, Yolanda Gil, Larry Smarr, Ian T. Foster

15 out of the 20 experts published at this conference in 1 or more years
 8 out of the 20 experts published at this conference in 2 or more years
 4 out of the 20 experts published at this conference in 3 or more years
 2 out of the 20 experts published at this conference in 4 or more years
 1 out of the 20 experts published at this conference in 5 or more years WPP Report:

http://portal.core.edu.au/core/media/conf_rank_report/higherrank1287_top_people_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1287_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

Comparator Comparison

Comparator

IEEE International Symposium on Cluster, Cloud and Grid Computing

Explanation as to why conference is superior to comparator:

eScience is the leading conference that focuses on studying the ongoing process of innovation in computationally-intensive and data-intensive research methods as such it has a strong interdisciplinary focus and bridges the gap between applied computing (applications) and the techniques and infrastructure needed to support those methods. CCGrid shares a similar focus on the infrastructure aspects of modern computing, however, it focuses entirely on the pure systems researcher rather than the methodology and applied computing focus of eScience.

Unfortunately we were not able to find h5 scores for eScience or CCGrid. However, the impact score (according to <https://www.guide2research.com/conference/ipdps-2020>) of CCGrid is greater than eScience. This is likely due to the specific systems focus of CCGrid and therefore the core group of researchers in this area are likely to be more focused than eScience.

The WPP reports included in this submission highlight the relationship between these conferences. The top people WPP report shows eScience as the top conference (48 publications by 15/20 experts) and CCGrid as the 5th ranked conference (23 times by 6/20 experts publishing). The WPP report for eScience PC members shows eScience as the top ranked conference (79 times by 21 of 39 experts) and CCGrid as the third ranked conference (24 times by 13/39 experts).

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1287_345.pdf

Comparator

International Conference on Computational Science

Explanation as to why conference is superior to comparator:

eScience is the leading conference that focuses on studying the ongoing process of innovation in computationally-intensive and data-intensive research methods as such it has a strong interdisciplinary focus and bridges the gap between applied computing (applications) and the techniques and infrastructure needed to support those methods. ICCS has some overlap with these goals in particular due to its focus on cutting-edge computational science across many domains, however, it has only minimal focus on the methods, infrastructure, and approaches required to support that science.

Unfortunately we were not able to find h5 scores for eScience or ICCS. However, according to

<https://www.guide2research.com/conference/ipdps-2020>, ICCS has an impact score of 1.49 whereas eScience is 1.98. This measure, aims to rank conferences based on the number of contributing top scientists in addition to the h-index estimated from the scientific papers published by top scientists.

With respect to the WPP reports included in this submission, we see that the top people in this field submit most often to eScience (48 publications by 15/20 experts) while ICCS is ranked third 3 (13 times by 8/20 experts publishing). The WPP report for eScience PC members shows eScience as the top conference (79 times by 21 of 39 experts) and ICCS as the 10th ranked conference (10 times by 6/39 experts). Finally, the WPP report for PC members from the comparable CCGrid conference places eScience as the 14th ranked conference (19 times by 9/53 experts) and ICCS as the 21st ranked conference (9 times by 7/53 experts)

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1287_765.pdf

Attachments

N/A

Proposers

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Last name: Chard

Affiliation: University of Chicago

Email: chard@uchicago.edu

Submitted By

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Email: kyle@chard.co.nz