



**Submission Data for 2020-2021 CORE conference Ranking process
Parallel Problem Solving from Nature**

Frank Neumann, Thomas Baeck

Conference Details

Conference

Title: Parallel Problem Solving from Nature
Acronym : PPSN
Rank: A

Requested Rank

Rank: A

Recent Years

Proceedings Publishing Style

Proceedings Publishing: series

Link to most recent proceedings: <https://www.springer.com/gp/book/9783030581145>

Further details: LNCS, Springer. PPSN is a biannual conference. Providing details for 2020, 2018, 2016.

Conference is listed on CORE as FOR code 4611, but code 4602 should be added as well as a lot of work published at PPSN is in the area of evolutionary computation. Comparison will be against conferences in 4611 based on FOR code used on CORE and against 4602 (CP as third comparator conference)

Most Recent Years

Most Recent Year

Year: 2020

URL: <https://ppsn2020.liacs.leidenuniv.nl/>

Location: Leiden, The Netherlands

Papers submitted: 268

Papers published: 99

Acceptance rate: 37

Source for numbers: <https://link.springer.com/book/10.1007%2F978-3-030-58115-2>

General Chairs

Name: Thomas Baeck Affiliation: Leiden University Gender: M H Index: 61 GScholar url: https://scholar.google.com/citations?user=x7LEID0AAAAJ&hl=pt-PT DBLP url: https://dblp.org/pid/b/ThomasBack.html

Name: Mike Preuss Affiliation: Leiden University Gender: M H Index: 35 GScholar url: https://scholar.google.se/citations?user=KGlyGUcAAAAJ&hl=en DBLP url: https://dblp.org/pid/p/MikePreuss.html

Program Chairs

Name: Carola Doer Affiliation: Sorbonne University Gender: F H Index: 24 GScholar url: https://scholar.google.com/citations?user=CU-V1sEAAAAJ&hl=en DBLP url: https://dblp.org/pid/62/8086.html
Name: Heike Trautmann Affiliation: University of Muenster Gender: F H Index: 28 GScholar url: https://scholar.google.com.au/citations?user=Y7HCnM8AAAAJ&hl=en DBLP url: https://dblp.org/pid/34/2589.html
Name: Michael Emmerich Affiliation: Leiden Unversity Gender: M H Index: 32 GScholar url: https://scholar.google.com/citations?user=yAXdVbMAAAAJ&hl=de DBLP url: https://dblp.org/pid/e/MichaelTEmmerich.html

Second Most Recent Year

Year: 2018
URL: <http://ppsn2018.dei.uc.pt/>
Location: Coimbra, Portugal
Papers submitted: 205
Papers published: 79
Acceptance rate: 38
Source for numbers: <https://link.springer.com/book/10.1007/978-3-319-99253-2>

General Chairs

Name: Carlos Fonseca Affiliation: University of Coimbra Gender: M H Index: 25 GScholar url: https://scholar.google.com/citations?user=jlWjmgcAAAAJ&hl=en DBLP url:
Name: Penousal Machado Affiliation: University of Coimbra Gender: M H Index: 25 GScholar url: https://scholar.google.com/citations?user=dmjtINEAAAAJ&hl=en DBLP url: https://dblp.org/pid/25/3172.html

Program Chairs

Name: Anne Auger Affiliation: INRIA, Ecole Polytechnique Gender: F H Index: 40 GScholar url: https://scholar.google.com/citations?user=z04BQjgAAAAJ&hl=en DBLP url: https://dblp.org/pid/48/4302.html
Name: LuÁns Paquete Affiliation: University of Coimbra Gender: M H Index: 28 GScholar url: https://scholar.google.com/citations?user=LkiveUgAAAAJ&hl=en DBLP url: https://dblp.org/pid/96/7060.html
Name: Darrell Whitley Affiliation: Colorado State University Gender: M H Index: 65 GScholar url: https://scholar.google.com/citations?user=0VzUxIcAAAAJ&hl=en DBLP url: https://dblp.org/pid/w/LDarrellWhitley.html

Third Most Recent Year

Year: 2016

URL: <http://www.ppsn2016.org/conference/>

Location: Edinburgh, UK

Papers submitted: 224

Papers published: 93

Acceptance rate: 41

Source for numbers: <https://link.springer.com/book/10.1007%2F978-3-319-45823-6>

General Chairs

Name: Emma Hart Affiliation: Edinburgh Napier University Gender: F H Index: 31 G Scholar url: https://scholar.google.com/citations?hl=en&user=hyFIq8UAAAAJ DBLP url:
Name: Ben Paechter Affiliation: Edinburgh Napier University Gender: M H Index: 27 G Scholar url: https://scholar.google.com/citations?hl=en&user=CrHB1LQAAAAJ DBLP url:

Program Chairs

Name: Gabriela Ochoa Affiliation: University of Stirling Gender: F H Index: 36 G Scholar url: https://scholar.google.com/citations?user=9jBS1tEAAAAJ&hl=en DBLP url:
Name: Julia Handl Affiliation: University of Manchester Gender: F H Index: 26 G Scholar url: https://scholar.google.com/citations?hl=en&user=Ya3hxoEAAAAJ DBLP url:
Name: Manuel Lspez-lbasez Affiliation: University of Manchester Gender: M H Index: 32 G Scholar url: https://scholar.google.com/citations?hl=en&user=q_47tpEAAAAJ DBLP url:

Policies

Chair Selection: There is bidding for conference and proposals are presented at the previous edition. This bidding is usually made by the general chair wanting to organize the conference. Program chairs are selected by the general chairs with the input of an advisory committee.

No Policies.

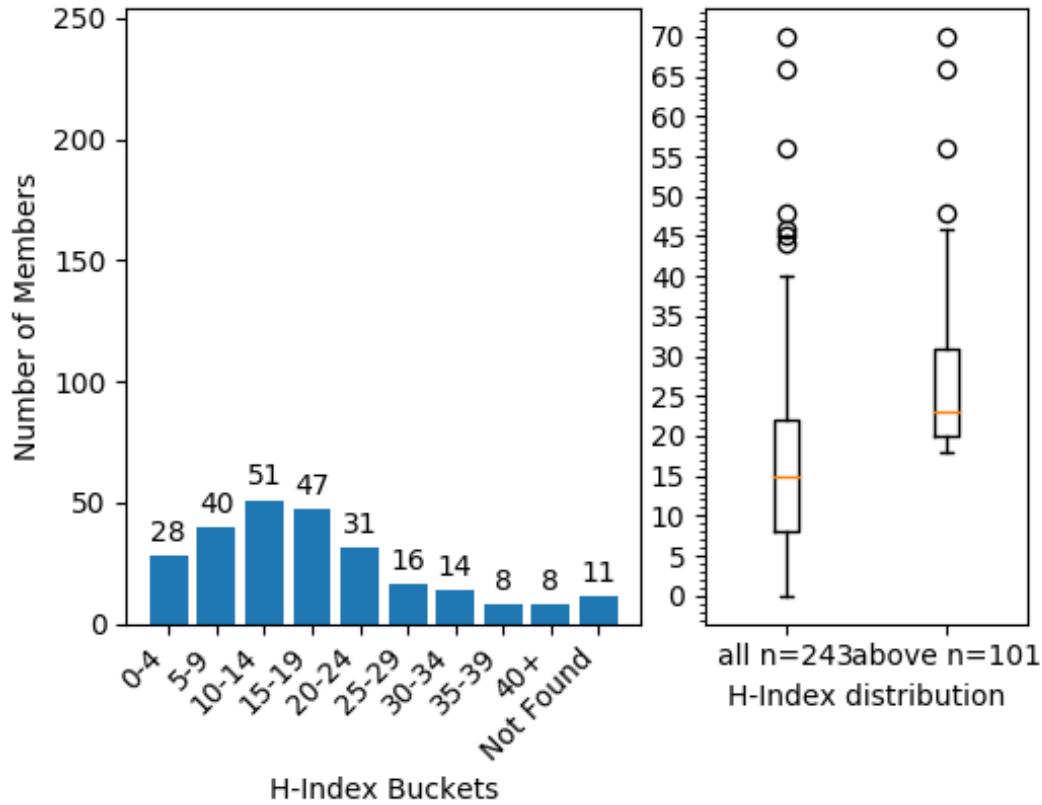
(Senior) Program Committee

Link to (s)pc: <https://ppsn2020.liacs.leidenuniv.nl/program-committee/>

File: http://portal.core.edu.au/core/media/conf_submissions_spc_file/PPSN_mp0QCmf.txt

H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1285.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.au/citations?view_op=top_venues&hl=en&vq=eng_evolutionarycomputation
 Position in sub-category: 16
 Image of top 20: http://portal.core.edu.au/core/media/changes_h5/higherrank1285_gsolar_minh5.pdf
 h5-index for this conference: 16

ACM Metrics

Not Sponsored by ACM

Aminer Rank

Aminer rank: 37
 Aminer name: Parallel Problem Solving from Nature
 Acronym / shortname: PPSN
 h-5 index: 16
 CCF level:
 THU level:

Other Rankings

Not aware of any other Rankings
 Conferences in area: GECCO PPSN FOGA ICONIP IEEE CEC EMO EVOSTAR/EUROGP/EVOCOP ANTS LION SEAL

Top People Publishing Here

name: Benjamin Doerr
 justification: Internationally leading researcher on theory of evolutionary computation. Large number of best paper awards at GECCO (the top conference on evolutionary computation)
<https://people.mpi-inf.mpg.de/~doerr/>

h-index 39 <https://scholar.google.com/citations?hl=en&user=aXWFB2UdJUUC>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
5	1	3	0	0

Attendance: ALWAYS

name: Darrell Whitley

justification: ACM Fellow. Leading researcher in evolutionary computation

<https://www.cs.colostate.edu/~whitley/>

h-index 66 <https://scholar.google.com/citations?hl=en&user=0VzUxIcAAAAJ>

Paper counts:

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

Attendance: ALWAYS

name: Thomas Baeck

justification: pioneer in the analysis of evolutionary computation methods. expert on the application of evolutionary computation to industrial problems

<https://www.universiteitleiden.nl/en/staffmembers/thomas-back/publications#tab-1>

h-index 61 <https://scholar.google.com/citations?hl=en&user=x7LEIDOAAAAJ>

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
5	2	0	1	0

Attendance: OFTEN

name: Carlos Coello Coello

justification: Internationally leader in evolutionary multi-objective optimisation <http://delta.cs.cinvestav.mx/%7Eccoeello/>

h-index 93 <https://scholar.google.com/citations?hl=en&user=oJMnjNYAAAAJ>

Paper counts:

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

Attendance: ALWAYS

name: Xin Yao

justification: leading researcher on evolutionary computation. Chair of PPSN 2004. 2020 IEEE Frank Rosenblatt Award Highly Cited Researchers 2016 Royal Society Wolfson Research Merit Award in 2012 IEEE Computational Intelligence Society Evolutionary Computation Pioneer Award in 2013 <https://www.cs.bham.ac.uk/~xin/>

h-index 103 <https://scholar.google.com/citations?hl=en&user=UUtYP14AAAAJ>

Paper counts:

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

Attendance: SOMETIMES

name: Frank Neumann

justification: Professor and Leader of Optimisation and Logistics group at the University of Adelaide. ARC Future Fellow 2020-2024 (step 3) <https://cs.adelaide.edu.au/~frank/>

h-index 42 <https://scholar.google.com/citations?hl=en&user=Z5iNnqIAAAAAJ>

Paper counts:

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

Attendance: OFTEN

name: Marc Schoenauer

justification: Directeur de Recherche with INRIA Saclay - Île-de-France previous chair of ACM SIGEVO. <https://www.lri.fr/~marc/>

h-index 53 <https://scholar.google.com/citations?user=GrCk6WoAAAAJ&hl=en>

Paper counts:

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

Attendance: OFTEN

name: Tobias Friedrich

justification: Professor Hasso-Plattner-Institute Potsdam. Best known for highly influential fundamental work on evolutionary multi-objective optimisation

h-index 44 <https://scholar.google.fr/citations?hl=en&user=vxfzU6IAAAAAJ>

Paper counts:

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

Attendance: OFTEN

name: Kenneth A. De Jong

justification: Pioneer in Evolutionary Computation

<https://cs.gmu.edu/~kdejong/>

Paper counts:

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

Attendance: OFTEN

name: Nikolaus Hansen

justification: Inventor of CMA-ES. One the most widely used evolutionary algorithms.

h-index 47

<https://scholar.google.fr/citations?user=Z8ISh-wAAAAJ&hl=en>

Paper counts:

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

Attendance: ALWAYS

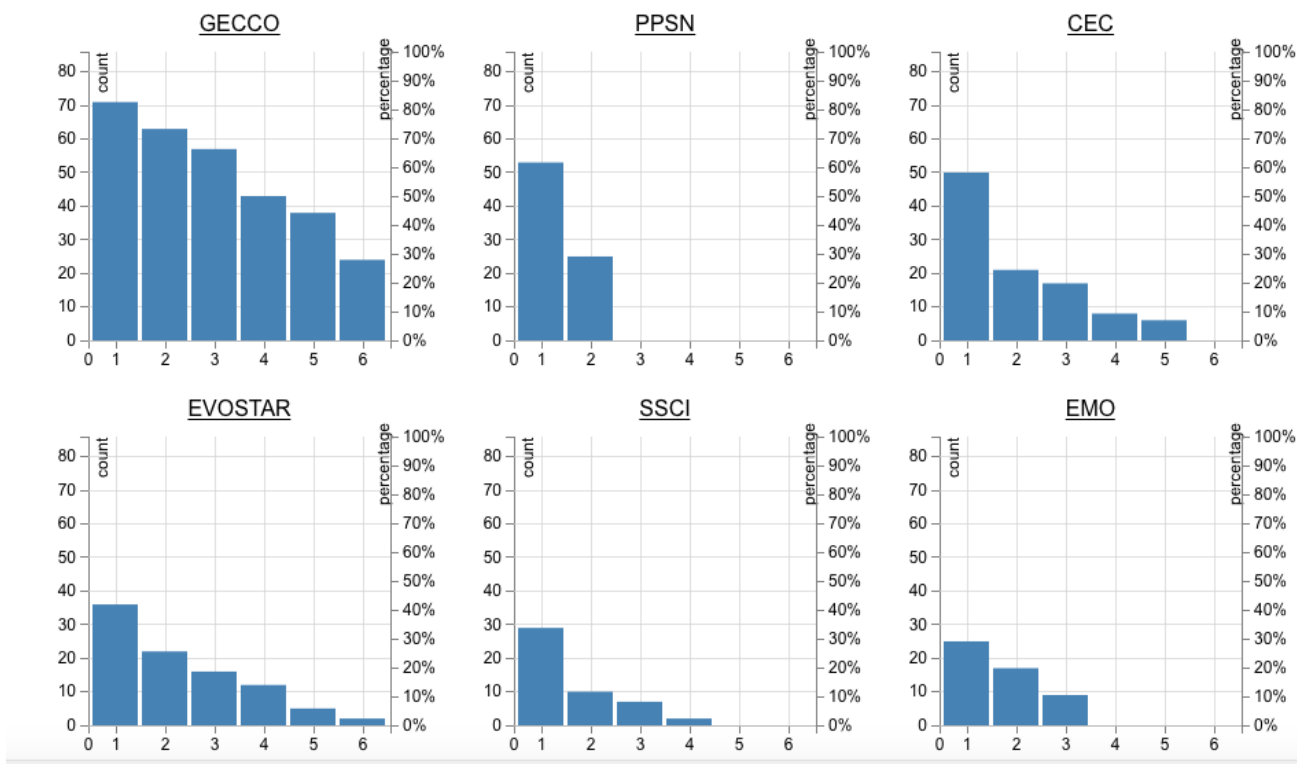
Where People Publish

Top (Senior) Program Committee Members

Generated Report Name: conf_submissions_top_spc/higherrank1285_top_spc.csv

WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/higherrank1285_spc_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1285_spc_graph.png



Reference item: \\ 2. Parallel Problem Solving from Nature (PPSN)

This conference was published at 95 times by 53 of 86 experts in the last 5 years.

The experts that publish at this conference are: Mengjie Zhang(2), Kaisa Miettinen(4), Benjamin Doerr(4), Frank Neumann 0001(6), Per Kristian Lehre(5), Sanaz Mostaghim(1), Laetitia Jourdan(1), Kalyanmoy Deb(2), Emma Hart(4), Carlos Cotta(3), Hisao Ishibuchi(5), Timo Ktzing(8), Marco Tomassini(1), Dirk Sudholt(4), Anne Auger(2), Pietro Simone Oliveto(6), Jrgen Branke(2), William B. Langdon(2), Leonardo Trujillo(1), Gabriela Ochoa(6), Efrn Mezura-Montes(1), Carlos A. Coello Coello(8), Jonathan E. Fieldsend(1), Giovanni Squillero(3), Hans-Georg Beyer(1), Dimo Brockhoff(2), Ricardo H. C. Takahashi(1), Dirk V. Arnold(2), John Robert Woodward(1), Julian Francis Miller(3), Marc Schoenauer(4), Will N. Browne(1), Carlos M. Fonseca(3), Juan Julin Merele Guervs(5), Edward C. Keedwell(1), Gnter Rudolph(1), Tapabrata Ray(1), Christian Blum 0001(1), Man Leung Wong(1), Thomas Jansen 0001(3), Thomas Weise 0001(1), Francisco Chicano(1), Leonardo Vanneschi(2), Dirk Thierens(2), Mauro Castelli(1), Ales Zamuda(1), Sbastien Vrel(4), Manuel Lpez-Ibez 0001(3), Hernn E. Aguirre(3), Peter A. N. Bosman(2), Christian Igel(1), Antonio J. Nebro(3), Shengxiang Yang(2)

In 2016, there were 50 publications by 37 experts: Julian Francis Miller, Marc Schoenauer, Benjamin Doerr, Frank Neumann 0001, Per Kristian Lehre, Christian Blum 0001, Carlos M. Fonseca, Juan Julin Merele Guervs, Edward C.

Keedwell, Gnter Rudolph, Kalyanmoy Deb, Emma Hart, Carlos Cotta, Man Leung Wong, Thomas Jansen 0001, Hisao Ishibuchi, Timo Ktzing, Kaisa Miettinen, Anne Auger, Pietro Simone Oliveto, William B. Langdon, Dirk Thierens, Gabriela Ochoa, Efrn Mezura-Montes, Carlos A. Coello Coello, Giovanni Squillero, Sbastien Vrel, Hans-Georg Beyer, Dimo Brockhoff, Hernn E. Aguirre, Ricardo H. C. Takahashi, Peter A. N. Bosman, Dirk V. Arnold, Dirk Sudholt, Jrgen Branke, Shengxiang Yang, Tapabrata Ray

In 2018, there were 45 publications by 41 experts: Mengjie Zhang, Kaisa Miettinen, Benjamin Doerr, Frank Neumann 0001, John Robert Woodward, Laetitia Jourdan, Kalyanmoy Deb, Emma Hart, Carlos Cotta, Hisao Ishibuchi, Timo Ktzing, Marco Tomassini, Sanaz Mostaghim, Anne Auger, Pietro Simone Oliveto, Thomas Weise 0001, Leonardo Trujillo, Gabriela Ochoa, Carlos A. Coello Coello, Jonathan E. Fieldsend, Giovanni Squillero, Dimo Brockhoff, Dirk V. Arnold, Dirk Sudholt, Per Kristian Lehre, Julian Francis Miller, Marc Schoenauer, Will N. Browne, Juan Julin Merelo Guervs, Thomas Jansen 0001, Mauro Castelli, Francisco Chicano, Leonardo Vanneschi, Dirk Thierens, Ales Zamuda, Sbastien Vrel, Manuel Lpez-Ibez 0001, Hernn E. Aguirre, Peter A. N. Bosman, Christian Igel, Antonio J. Nebro

53 out of the 86 experts published at this conference in 1 or more years

25 out of the 86 experts published at this conference in 2 or more years

Top People Report

Method of selection: top 10 authors at GECCO (top conference on evolutionary computation) according to DBLP (positions 1-10). top 5 authors at IEEE Transactions on Evolutionary Computation (top journal on evolutionary computation) not in the GECCO list (positions 11-15). top 5 authors at Evolutionary Computation (MIT Press) according to DBLP (not listed previously) (positions 16-20) only authors with a google scholar profile are included and h-index ≥ 45 . Additional people with h-index ≥ 45 based on google scholar keyword "evolutionary_algorithms" based on GS ranking.

Keyword: evolutionary computation

name	h-index	gscholar url
Mengjie Zhang	49	https://scholar.google.com.au/citations?user=hLvGrrkAAAAJ&hl=en
David E. Goldberg	110	https://scholar.google.com/citations?user=BUzKxsoAAAAJ&hl=en
Francisco Herrera	148	https://scholar.google.com/citations?hl=en&user=HULIk-QAAAAJ
Kalyanmoy Deb	124	https://scholar.google.co.uk/citations?user=paTAXiIAAAAAJ&hl=en
Lothar Thiele	84	https://scholar.google.com/citations?hl=en&user=OaAKHewAAAAJ
Risto Miikkulainen	65	https://scholar.google.com/citations?user=2SmbjHAAAAAJ&hl=en
Peter J Fleming	60	https://scholar.google.com/citations?hl=en&user=kKw3GCUAAAAJ
Carlos A. Coello Coello	93	https://scholar.google.com/citations?user=oJMnjNYAAAAAJ&hl=en
Lee Spector	46	https://scholar.google.com/citations?user=wtKLtLUAAAAAJ&hl=en
Nikolaus Hansen	47	https://scholar.google.fr/citations?user=Z8ISh-wAAAAJ&hl=en
Xin Yao	103	https://scholar.google.co.uk/citations?user=UUtYP14AAAAAJ&hl=en
Qingfu Zhang	59	https://scholar.google.co.uk/citations?user=nhL9PHwAAAAAJ&hl=en
Salvador Garca	54	https://scholar.google.com/citations?hl=en&user=vIC06aOAAAAAJ
Yaochu Jin	72	https://scholar.google.com/citations?user=B5Wakz4AAAAAJ&hl=en
Gary G. Yen	50	https://scholar.google.com/citations?user=6LR55aMAAAAAAJ&hl=en
Marc Schoenauer	53	https://scholar.google.com/citations?user=GrCk6WoAAAAAJ&hl=en
Dan Simon	47	https://scholar.google.com/citations?hl=en&user=hZV3PngAAAAAJ
Enrique Alba	61	https://scholar.google.com/citations?hl=en&user=JwUs72EAAAAAJ
Kaisa Miettinen	50	https://scholar.google.com/citations?hl=en&user=h9ISLhkAAAAAJ
Darrell Whitley	66	https://scholar.google.com/citations?user=0VzUxIcAAAAAJ&hl=en

Reference item: \ 3. Parallel Problem Solving from Nature (PPSN)

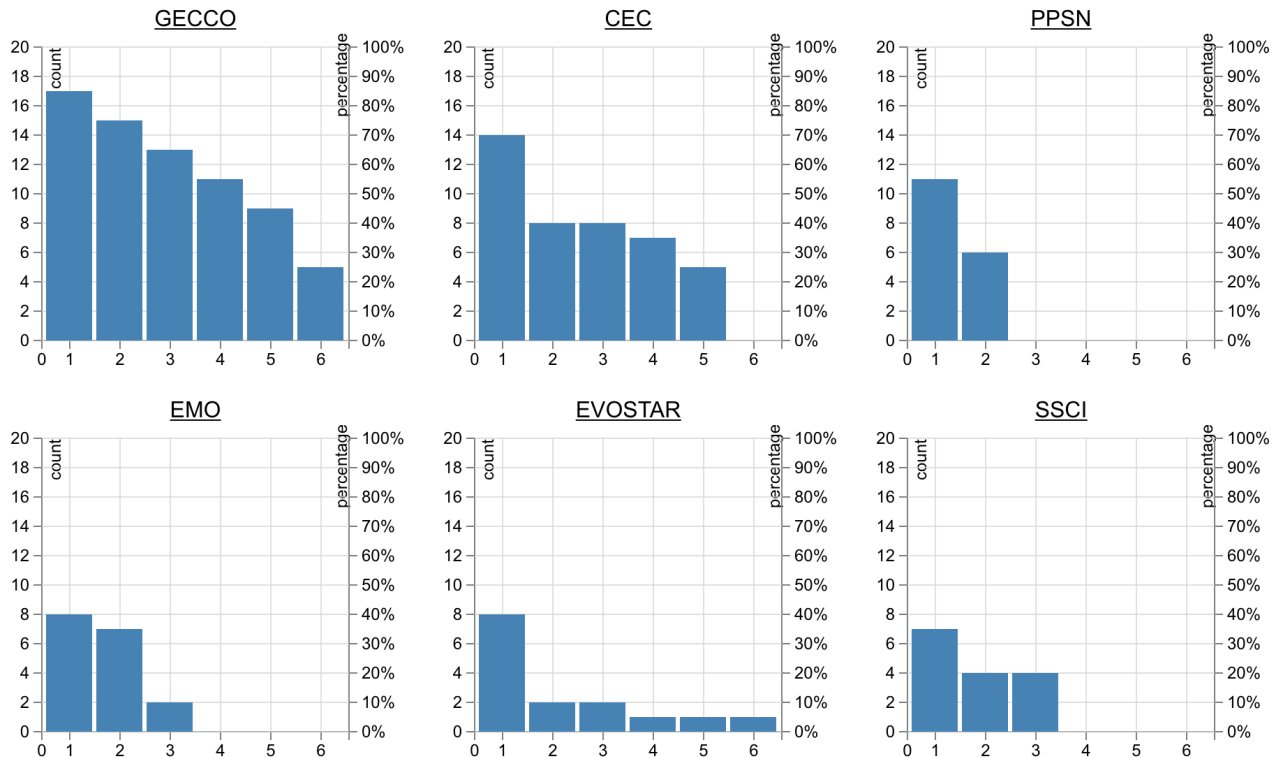
 This conference was published at 30 times by 11 of 20 experts in the last 5 years.

The experts that publish at this conference are: Qingfu Zhang 0001(2), Kaisa Miettinen(4), Yaochu Jin(1), Carlos A. Coello Coello(8), Enrique Alba(2), Xin Yao 0001(3), Mengjie Zhang(2), Kalyanmoy Deb(2), L. Darrell Whitley(6), Nikolaus Hansen(3), Marc Schoenauer(4)

In 2016, there were 18 publications by 10 experts: Kaisa Miettinen, Yaochu Jin, Qingfu Zhang 0001, Enrique Alba, Xin Yao 0001, Carlos A. Coello Coello, Kalyanmoy Deb, Nikolaus Hansen, L. Darrell Whitley, Marc Schoenauer
 In 2018, there were 12 publications by 7 experts: Mengjie Zhang, Kaisa Miettinen, Carlos A. Coello Coello, Kalyanmoy Deb, L. Darrell Whitley, Nikolaus Hansen, Marc Schoenauer

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

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



Other Information

Comparator Comparison

Comparator

International Conference on Neural Information Processing

Explanation as to why conference is superior to comparator:

PPSN is together with GECCO widely accepted as the top conference on evolutionary computation. ICONIP accepts papers that are much weaker in terms of technical quality. In fact, very good evolutionary computation papers rejected at PPSN due to competitiveness usually get accepted at ICONIP as there is much less competition in terms of strong research papers.

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1285_347.pdf

Comparator

IEEE International Joint Conference on Neural Networks

Explanation as to why conference is superior to comparator:

IJCNN is the large IEEE conference on neural networks. While there is some overall with PPSN, the overlap is relatively small. For conferences as part of WCCI (IEEE CEC, IEEE IJCNN, IEEE-FUZZ), it is in general much easier to get papers accepted than top venues on evolutionary computation such as GECCO and PPSN. Researchers on IJCNN publish mainly in these conferences or at very weak venues such as SSCI (unranked), CEC (rank B) or ICONIP whereas researchers from PPSN regularly publish at top conferences on evolutionary computation including GECCO(A) (widely regarded as best conference on evolutionary computation)

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1285_348.pdf

Comparator

International Conference on Principles and Practice of Constraint Programming

Explanation as to why conference is superior to comparator:

PPSN seems to be comparable to CP. PPSN is roughly double the size of CP, but still very small with around 100 accepted papers. Acceptance rate of PPSN is a bit smaller than CP. Both conferences attract the leading researcher in their respective area (constraint programming for CP and evolutionary computation for PPSN).

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1285_627.pdf

Other Relevant Info

Other relevant information: It looks like a lot of data produced is not reflecting the actual quality of conferences and journals in the area of evolutionary computation.

For example, the Google subcategory list ranks a lot of conferences and journals higher than the top conferences GECCO and PPSN in this field. Examples are: Applied Soft Computing, IEEE Congress on Evolutionary Computation, Soft Computing, Swarm and Evolutionary Computation.

which are considered in general as publication outlets of a far lower quality.

I am not sure whether this is just a problem within this subcategory, but it makes a lot of data asked for evaluation almost useless.

Attachments

N/A

Proposers

First name: Frank

Last name: Neumann

Affiliation: The University of Adelaide

Email: frank.neumann@adelaide.edu.au

First name: Thomas

Last name: Baeck

Affiliation: Leiden University

Email: t.h.w.baeck@liacs.leidenuniv.nl

Submitted By

Name: Neumann Frank

Email: frank.neumann@adelaide.edu.au