



**Submission Data for 2020-2021 CORE conference Ranking process
International Conference on Applications of Evolutionary Computation**

Juan Luis JimÁlnez Laredo, Pedro Castillo

Conference Details

Conference

Title: International Conference on Applications of Evolutionary Computation
Acronym : EvoApplications

Requested Rank

Rank: B

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/evoW/>

For Codes

For1: 4602

For2: 4611

For3: 4601

Recent Years

Proceedings Publishing Style

Proceedings Publishing: series

Link to most recent proceedings: <https://link.springer.com/conference/evoapplications>

Further details: EvoApplications proceedings are regularly published in Lecture Notes in Computer Science book series (LNCS)

Publisher: Springer, Cham. All the papers published are equally treated as full papers. The proceedings of the conference are not combined with those of any other conference.

Most Recent Years

Most Recent Year

Year: 2019

URL: http://www.evostar.org/2019/cfp_evoapps.php

Location: Leipzig, Germany

Papers submitted: 66

Papers published: 42

Acceptance rate: 64

Source for numbers: <https://link.springer.com/content/pdf/bfm%3A978-3-030-16692-2%2F1.pdf>

General Chairs

Name: Paul Kaufmann
Affiliation: University of Mainz
Gender: M
H Index: 12
GScholar url: https://scholar.google.com/citations?hl=es&user=j1i0sdYAAAAJ&view_op=list_works&sortby=pubdate
DBLP url: <https://dblp.uni-trier.de/pid/99/6983.html>

Program Chairs

Name: Pedro Castillo
Affiliation: University of Granada
Gender: M
H Index: 25
GScholar url: <https://scholar.google.com/citations?user=z91L34wAAAAJ&hl=es>
DBLP url: <https://dblp.org/pid/c/PedroACastilloValdivieso.html>

Second Most Recent Year

Year: 2018
URL: http://www.evostar.org/2018/cfp_evoapps.php
Location: Parma, Italy
Papers submitted: 84
Papers published: 59
Acceptance rate: 70
Source for numbers: <https://link.springer.com/content/pdf/bfm%3A978-3-319-77538-8%2F1.pdf>

General Chairs

Name: Kevin Sim
Affiliation: Edinburgh Napier University
Gender: M
H Index: 11
GScholar url: <https://scholar.google.com/citations?hl=es&user=5i2LmBMAAAJ>
DBLP url: <https://dblp.uni-trier.de/pid/117/7293.html>

Program Chairs

Name: Paul Kaufmann
Affiliation: University of Mainz
Gender: M
H Index: 12
GScholar url: https://scholar.google.com/citations?hl=es&user=j1i0sdYAAAAJ&view_op=list_works&sortby=pubdate
DBLP url: <https://dblp.uni-trier.de/pid/99/6983.html>

Third Most Recent Year

Year: 2017
URL: http://www.evostar.org/2017/cfp_evoapps.php
Location: Amsterdam, The Netherlands
Papers submitted: 108
Papers published: 72
Acceptance rate: 67
Source for numbers: <https://link.springer.com/content/pdf/bfm%3A978-3-319-55849-3%2F1.pdf>

General Chairs

Name: Giovanni Squillero
Affiliation: Politecnico di Torino
Gender: M
H Index: 28
GScholar url: https://scholar.google.com/citations?user=99_kdAQAAAAJ&hl=en
DBLP url: <https://dblp.org/pid/80/276.html>

Program Chairs

Name: Kevin Sim
Affiliation: Edinburgh Napier University
Gender: M
H Index: 11
GScholar url: <https://scholar.google.com/citations?hl=es&user=5i2LmBMAAAJ>
DBLP url: <https://dblp.uni-trier.de/pid/117/7293.html>

Policies

Chair Selection: Selection criteria to nominate the Program Chair ——— It is the duty of the General Chair to provide a list of candidates who may serve as Program Chair of the conference in the next year. This list is examined by the Steering Committee and ranked according to the expertise on the field of the candidates, frequency of attendance to the venue, availability and previous experiences in similar roles.

Selection criteria to nominate the General Chair ——— Typically, the Program Chair becomes General Chair in the following edition of the conference. The process, however, is not automatically done as it undergoes examination and approval by the Steering Committee.

Policy name: The EvoStar Code

Policy url: <http://www.evostar.org/2021/the-evostar-code/>

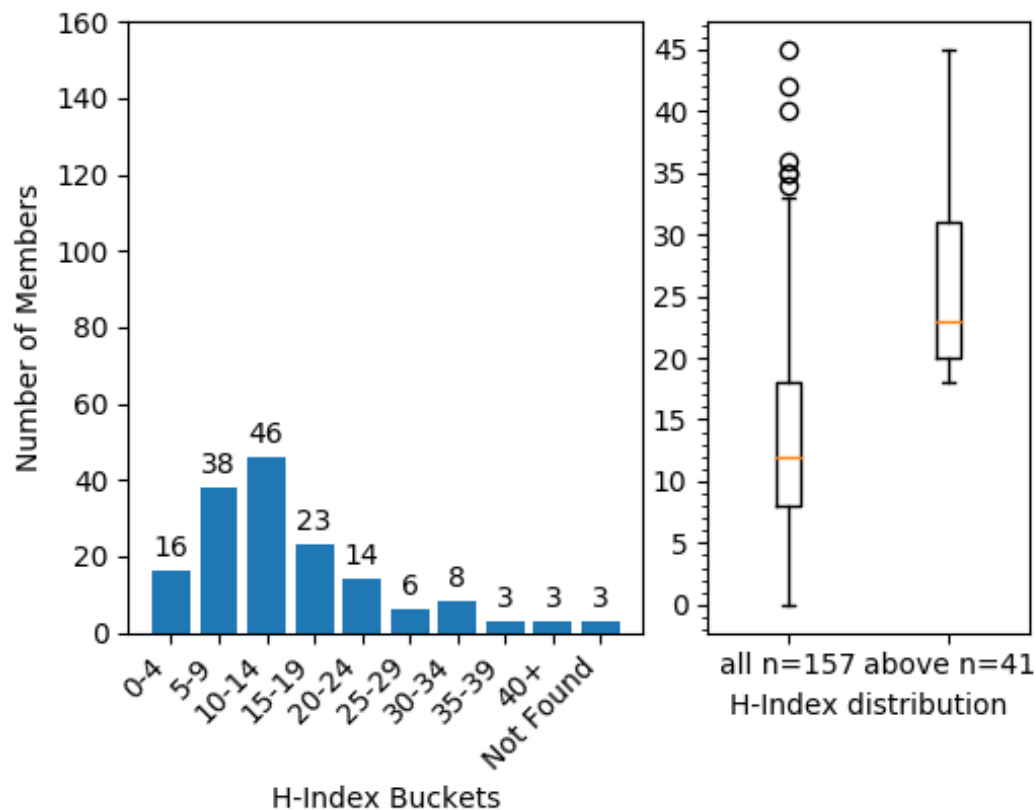
(Senior) Program Committee

Link to (s)pc: <http://www.evostar.org/2020/evoapps/>

File: http://portal.core.edu.au/core/media/conf_submissions_spc_file/EvoApplications_Y9T0oVL.csv

H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1126.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_evolutionarycomputation

Position in sub-category: 16

Image of top 20: http://portal.core.edu.au/core/media/changes_h5/addrank1126_gscholar_minh5.png

Categories > Engineering & Computer Science > Evolutionary Computation ▾

Publication	<u>h5-index</u>	<u>h5-median</u>
1. Applied Soft Computing	<u>96</u>	123
2. IEEE Congress on Evolutionary Computation	<u>70</u>	109
3. Soft Computing	<u>60</u>	86
4. Swarm and Evolutionary Computation	<u>49</u>	70
5. Conference on Genetic and Evolutionary Computation	<u>38</u>	56
6. Evolutionary Computation	<u>27</u>	40
7. IEEE Symposium Series on Computational Intelligence	<u>24</u>	35
8. Memetic Computing	<u>21</u>	30
9. International Journal of Bio-Inspired Computation	<u>20</u>	39
10. Natural Computing	<u>20</u>	22
11. International Conference on Natural Computation	<u>19</u>	25
12. Artificial Life	<u>17</u>	23
13. Evolutionary Multi-Criterion Optimization	<u>17</u>	23
14. International Conference on Advances in Swarm Intelligence	<u>17</u>	21
15. Genetic Programming and Evolvable Machines	<u>16</u>	25
16. International Conference on Applications of Evolutionary Computation	<u>16</u>	23
17. International Conference on Parallel Problem Solving from Nature	<u>16</u>	20
18. International Conference on Search based Software Engineering	<u>15</u>	20
19. International Journal of Computing Science and Mathematics	<u>14</u>	19
20. Brazilian Conference on Intelligent Systems	<u>12</u>	14

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

h5-index for this conference: 16

ACM Metrics

Is an ACM sponsored conference: True

Providing ACM Stats: False

Reason for not providing stats: EvoApplications is not an ACM sponsored conference.

Aminer Rank

Not Listed in Aminer

Other Rankings

Not aware of any other Rankings

Conferences in area: - IEEE Congress on Evolutionary Computation (CEC) - Conference on Genetic and Evolutionary Computation (GECCO) - International Conference on Parallel Problem Solving from Nature (PPSN) - International Conference on Applications of Evolutionary Computation (EvoApplications) - European Conference on Genetic Programming (EuroGP) - International Conference on Evolutionary Computation in Combinatorial Optimisation (EvoCoP) - IEEE Symposium Series on Computational Intelligence (IEEE SSCI) - International Conference on Evolutionary Computation Theory and Applications (ECTA) - International Conference on Evolutionary Multi-Criterion Optimization (EMO) - Learning and Intelligent Optimization (LION)

Top People Publishing Here

name: Jason H. Moore

justification: Known for multifactor dimensionality reduction, he is a world class researcher in the areas of machine learning and bio-medicine. Fellow of the AAAS, NAS, ACM and ASA

Web site: <https://jasonhmoore.org/> Dblp: <https://dblp.uni-trier.de/pid/07/315.html> Google profile (h-index 91):

<https://scholar.google.com/citations?user=mE1Te78AAAAJ&hl=en>

Paper counts:

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

Attendance: OFTEN

name: Riccardo Poli

justification: Co-founder of EuroGP and fellow of the ISGEC, he is a world class researcher in the areas of brain-computer interfaces and evolutionary computation, particularly genetic programming.

Web site: <https://www.essex.ac.uk/people/POLIR15101/riccardo-poli> Dblp: <https://dblp.org/pid/21/862.html> Google profile (h-index 63): <https://scholar.google.com/citations?hl=en&user=fNVNLBcAAAAJ>

Paper counts:

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

Attendance: SOMETIMES

name: Julian Togelius

justification: He is a world class researcher in the area of artificial intelligence applied to games.

Web site: <http://julian.togelius.com/> Dblp: <https://dblp.org/pid/47/767.html> Google profile (h-index 61): <https://scholar.google.com/citations?user=lr4I9BwAAAAJ&hl=en>

Paper counts:

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

Attendance: ALWAYS

name: Agoston E. Eiben

justification: Known for his contributions to the field of embodied AI, A.E. Eiben is a science communicator and a world class researcher in the areas of evolutionary computation and evolutionary robotics.

Web site: <https://www.cs.vu.nl/~gusz/> Dblp: <https://dblp.uni-trier.de/pid/e/AEEiben.html> Tedx : https://www.youtube.com/watch?v=WJX_wAKhg8A Google profile (h-index 57):

<https://scholar.google.com/citations?user=NMuDAeOAAAAJ&hl=en>

Paper counts:

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

Attendance: ALWAYS

name: Mengjie Zhang

justification: He is a world class researcher in the areas of evolutionary computation and machine learning.

Web site: <https://homepages.ecs.vuw.ac.nz/~mengjie/> Dblp: <https://dblp.org/pid/z/MengjieZhang.html> Google profile (h-index 48): <https://scholar.google.co.nz/citations?user=hLvGrrkAAAAJ>

Paper counts:

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

Attendance: ALWAYS

name: Carlos H. Antunes

justification: He is a world class researcher in the area of multi-objective optimization.

Web site: www.deec.uc.pt/~ch Dblp: <https://dblp.org/pid/16/1143.html> Google profile (h-index 44): <https://scholar.google.com/citations?user=s6KaiH8AAAAJ&hl=en>

Paper counts:

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

Attendance: OFTEN

name: Michael O'Neill

justification: One of the inventors of grammatical evolution. He is also a world class researcher in genetic programming.

Web site: <https://people.ucd.ie/m.oneill/> Dblp: <https://dblp.uni-trier.de/pid/61/6483-1.html> Google profile (h-index 43): <https://scholar.google.com/citations?user=KlZHfzFgAAAAJ&hl=en>

Paper counts:

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

Attendance: ALWAYS

name: JJ Merelo

justification: Reputed activist of the open-source movement, JJ Merelo is a world class researcher in distributed and concurrent evolutionary algorithms.

Web site: <http://jj.github.io/> Dblp: <https://dblp.uni-trier.de/pid/m/JJMereloGuervos.html> Google profile (h-index 36): <https://scholar.google.com/citations?user=gFxqc64AAAAJ&hl=en>

Paper counts:

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

Attendance: ALWAYS

name: Leonardo Vanneschi

justification: Reputed researcher in evolutionary computation and machine learning, he is having a large impact in the genetic programming community in the recent years.

Web site: <https://www.novaims.unl.pt/magic/index.php/component/k2/item/105-leonardo-vanneschi-bio.html> Dblp: <https://dblp.uni-trier.de/pid/69/645.html> Google profile (h-index 33): https://scholar.google.com/citations?hl=es&user=uR5K07QAAAAJ&view_op=list_works&sortby=pubdate

Paper counts:

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

Attendance: ALWAYS

name: Bing Xue

justification: She is a rising star researcher in the areas of machine learning, particle swarm and evolutionary computation.

Web site: <https://homepages.ecs.vuw.ac.nz/~xuebing> Dblp: <https://dblp.org/pid/40/6434.html> Google profile (h-index 32): <https://scholar.google.com/citations?user=RIlgdb4AAAAJ&hl=en>

Paper counts:

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

Attendance: ALWAYS

Where People Publish

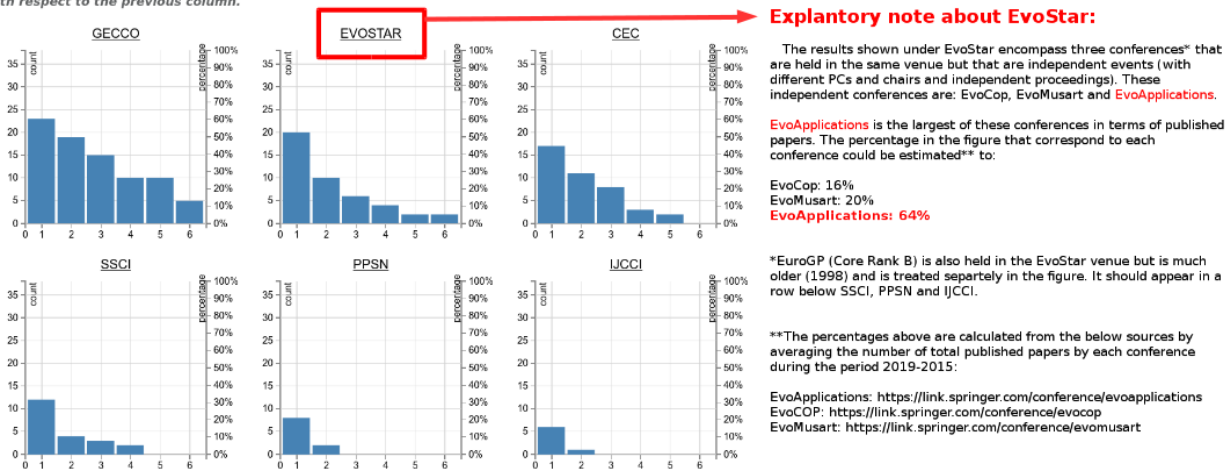
Top (Senior) Program Committee Members

Generated Report Name: `conf_submissions_top_spc/addrank1126_top_spc.csv`

WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/addrank1126_spc_report.txt

Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/addrank1126_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: \\ NOTE: See the explanatory note about EvoStar in the attached image (i.e. screenshot of the WPP tool).

2. EvoStar Conferences (EvoStar)

This conference was published at 73 times by 20 of 38 experts in the last 5 years.

The experts that publish at this conference are: Ferrante Neri(4), Mengjie Zhang(18), Julian Togelius(11), Andries Petrus Engelbrecht(1), Giovanni Iacca(12), Frank Neumann 0001(2), Elena Marchiori(1), Clara Pizzuti(2), Hossam Faris(1), Antonio Della Cioppa(1), Martin Middendorf(3), Changhe Li(1), Jaume Bacardit(1), Carlos Cotta(1), David Camacho(2), Stefano Cagnoni(2), Francisco Chicano(4), Ender zcan(2), Shengxiang Yang(4), Sara Silva(1)

In 2015, there were 12 publications by 5 experts: Mengjie Zhang, Julian Togelius, Giovanni Iacca, Carlos Cotta, Shengxiang Yang

In 2016, there were 16 publications by 8 experts: Changhe Li, Mengjie Zhang, Julian Togelius, Giovanni Iacca, Martin Middendorf, Elena Marchiori, Francisco Chicano, Shengxiang Yang

In 2017, there were 14 publications by 10 experts: Ferrante Neri, Mengjie Zhang, Julian Togelius, Sara Silva, Giovanni Iacca, Frank Neumann 0001, Jaume Bacardit, Francisco Chicano, Ender zcan, Shengxiang Yang

In 2018, there were 12 publications by 8 experts: Ferrante Neri, Mengjie Zhang, Julian Togelius, Giovanni Iacca, Clara Pizzuti, Frank Neumann 0001, Stefano Cagnoni, Ender zcan

In 2019, there were 7 publications by 5 experts: Mengjie Zhang, Giovanni Iacca, Andries Petrus Engelbrecht, Francisco Chicano, Martin Middendorf

In 2020, there were 12 publications by 8 experts: Ferrante Neri, Mengjie Zhang, Giovanni Iacca, Clara Pizzuti, David Camacho, Francisco Chicano, Hossam Faris, Antonio Della Cioppa

20 out of the 38 experts published at this conference in 1 or more years
10 out of the 38 experts published at this conference in 2 or more years
6 out of the 38 experts published at this conference in 3 or more years
4 out of the 38 experts published at this conference in 4 or more years
2 out of the 38 experts published at this conference in 6 or more years

Top People Report

Not providing Top People Report

Other Information

Comparator Comparison

Comparator

Parallel Problem Solving from Nature

Explanation as to why conference is superior to comparator:

Please, mind that PPSN is ranked CORE A while EvoApplications is eligible for a CORE B rank.

EvoApplications strengths over PPSN =====

- EvoApplications appears in the 16th position of the top 20 google scholar venues of evolutionary computation, while PPSN is ranked 17th.
 - h5-index of both conferences is 16. h5-median is 23 for EvoApplications and 20 for PPSN.
 - Previous h5 figures are roughly equivalent taking into account that the average number of publications per year* is similar to both conferences: 45 papers/year for PPSN and 58 papers/year for EvoApplications.
 - According to the WPP tool for where PC EvoApplications publish, EvoApplications** is the 3rd preferred venue while PPSN is the 5th.
 - The same tool (WPP) applied to where PPSN PC publish shows that EvoApplications** is the 4th preferred venue while PPSN is the 2nd.
 - All previous numbers do not intend to show that EvoApplications is superior to PPSN, rather, the aim is showing that both conferences are relatively close and that EvoApplications deserves a CORE B ranking (after comparison against a CORE A ranked conference).
- *The number of published papers are averaged through the last 3 venues and taking into account that PPSN is biennial so we divide by 6 in this case and not by 3 as for EvoApplications.

** See the section Other Relevant Information

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1126_294.pdf

Comparator

European Conference on Genetic Programming

Explanation as to why conference is superior to comparator:

EuroGP is ranked CORE B, the same rank intended for EvoApplications. Both conferences are similar in terms of scope: EuroGP being more focused on Genetic Programming and EvoApplications on applied Evolutionary Computation. They are dissimilar in terms of number of published papers: EvoApplications publishes 58 papers per year in average while EuroGP's average is 19.

EvoApplications strengths over EuroGP =====

- EvoApplications is listed on the top 20 google scholar venues of evolutionary computation (16th position), while EuroGP does not currently appear in this rank.
- According to the WPP tool for where PC EvoApplications publish, EvoApplications* is the 3rd preferred venue while EuroGP is the 7th.
- The same tool (WPP) applied to where PC EuroGP publish shows that EvoApplications* is the 4th preferred venue, very near to EuroGP which is the 3rd.

* Please, see the section Other Relevant Information

Link to comparator report:

http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1126_432.pdf

Other Relvant Info

Other relevant information: Explanatory notes about EvoStar and EvoApplications =====

EvoStar is a series of conferences which are held in parallel within the same venue but that are independent events (i.e. different PCs and chairs, and independent proceedings). These independent conferences are: EvoApplications, EvoCop, EvoMusart and EuroGP. As these are independent conferences, all the numbers shown in the current application refer explicitly to EvoApplications and not to EvoStar as a whole. For instance, that is the case of the google scholar rank of top 20 evolutionary computing venues, i.e., it is EvoApplications and not EvoStar which is ranked 16th.

Nonetheless, there is the case of the WPP tool which is incapable of distinguishing three EvoStar events: EvoApplications, EvoCop, EvoMusart, where EvoApplications represents 64% of the published works overall. For fairness when comparing against PPSN and EuroGP, we have diminished by 36% all the results about WPP rankings (referred to as EvoStar). For instance, we say that EvoApplications is the 3rd preferred venue where PC members publish, but those are results obtained after diminishing "EvoStar" by 36%, otherwise the rank would be 2nd.

Attachments

N/A

Proposers

First name: Juan Luis
Last name: Jim  lhez Laredo
Affiliation: University of Le Havre Normandy
Email: juanlu.jimenez@univ-lehavre.fr

First name: Pedro
Last name: Castillo
Affiliation: University of Granada
Email: pacv@ugr.es

Submitted By

Name: Jim  lhez Laredo Juan Luis
Email: juanlu.jimenez@gmail.com