

Submission Data for 2020-2021 CORE conference Ranking process Formal Methods in Computer-Aided Design

Georg Weissenbacher

Conference Details

Conference

Title: Formal Methods in Computer-Aided Design Acronym : FMCAD Rank: Unranked

Requested Rank

Rank: A

Recent Years

Proceedings Publishing Style

Proceedings Publishing: self-contained

Link to most recent proceedings: https://www.tuwien.at/academicpress/en/produkt/ proceedings-of-the-20th-conference-on-formal-methods-in-computer-aided-design-fmcad-2020-ebook/ Further details: 1.) Open Access Proceedings published by TU Wien Academic Press (DOI: 10.34727/2020/isbn.978-3-85448-042-6) and The University of Texas at Austin Library (https://repositories.lib.utexas.edu/handle/2152/83561) 2.) Proceedings are also published on IEEE Xplore Digital Library (https://ieeexplore.ieee.org/xpl/conhome/9283613/proceeding)

Most Recent Years

Most Recent Year

Year: 2019 URL: https://doi.org/10.23919/FMCAD47411.2019 Location: San Jose, California Papers submitted: 61 Papers published: 27 Acceptance rate: 44 Source for numbers: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8894260

General Chairs

No General Chairs

Program Chairs

Name: Clark Barrett
Affiliation: Stanford University
Gender: M
H Index: 41
GScholar url: https://scholar.google.com/citations?user=BtwmZfQAAAAJ
DBLP url: https://dblp.uni-trier.de/pid/b/ClarkWBarrett.html
Name: Jin Yang
Affiliation: Intel
Gender: M
H Index: 15
GScholar url: https://scholar.google.com/citations?hl=en&user=1o3j7s2MD1AC
DBLP url:

Second Most Recent Year

Year: 2018 URL: https://ieeexplore.ieee.org/xpl/conhome/8891869/proceeding Location: Austin, Texas Papers submitted: 73 Papers published: 26 Acceptance rate: 36 Source for numbers: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8603002

General Chairs

No General Chairs

Program Chairs

Name: Arie Gurfinkel Affiliation: University of Waterloo Gender: M H Index: 32 GScholar url: https://scholar.google.com/citations?user=WHTB3_MAAAAJ DBLP url: https://dblp.uni-trier.de/pid/44/3532.html Name: Nikolaj Bjorner Affiliation: Microsoft Research Gender: M H Index: 47 GScholar url: https://scholar.google.com/citations?user=kja6dIzH9GwJ DBLP url: https://dblp.uni-trier.de/pid/51/912.html

Third Most Recent Year

Year: 2017 URL: http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8093672 Location: Vienna, Austria Papers submitted: 67 Papers published: 29 Acceptance rate: 43 Source for numbers: https://ieeexplore.ieee.org/document/8102225/

General Chairs

No General Chairs

Program Chairs

Name: Georg Weissenbacher
Affiliation: TU Wien
Gender: M
H Index: 18
GScholar url: https://scholar.google.com/citations?user=1KfaH-QAAAAJ
DBLP url: https://dblp.uni-trier.de/pid/15/3636.html
Name: Daryl Stewart
Affiliation: ARM
Gender: M
H Index: 2
GScholar url:
DBLP url: https://dblp.uni-trier.de/pid/127/2577.html

Policies

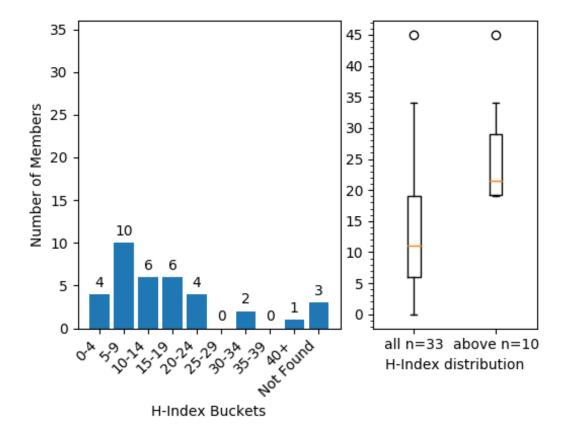
Chair Selection: (Co-)Chairs are selected by the Steering Committee. One co-chair is always from academia, the other one from industry. No Policies.

(Senior) Program Committee

Link to (s)pc: https://fmcad.forsyte.at/FMCAD19/cfp/

File: http://portal.core.edu.au/core/media/conf_submissions_spc_file/pc2019.txt

H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1618.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.at/citations?view_op=top_venues&hl=en&vq=eng_computerhardwaredesign Position in sub-category: 20+

Image of top 20: http://portal.core.edu.au/core/media/changes_h5/higherrank1618_gscholar_minh5.png

Categories > Engineering & Computer Science > Computer Hardware Design -

	Publication	<u>h5-index</u>	<u>h5-median</u>
1.	IEEE Transactions on Computers	<u>65</u>	97
2.	IEEE Journal of Solid-State Circuits	<u>65</u>	85
3.	IEEE International Solid-State Circuits Conference	<u>56</u>	74
4.	IEEE Transactions on Circuits and Systems I: Regular Papers	<u>55</u>	72
5.	Design Automation Conference (DAC)	<u>52</u>	75
6.	IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems	<u>47</u>	70
7.	Design, Automation and Test in Europe Conference and Exhibition (DATE)	<u>46</u>	60
8.	IEEE/ACM International Symposium on Microarchitecture	<u>45</u>	69
9.	IEEE Transactions on Very Large Scale Integration (VLSI) Systems	<u>45</u>	61
10.	IEEE Transactions on Circuits and Systems II: Express Briefs	<u>44</u>	60
11.	International Conference on Computer Aided Verification (CAV)	38	54
12.	IEEE Journal on Emerging and Selected Topics in Circuits and Systems	36	55
13.	IEEE/ACM International Conference on Computer-Aided Design (ICCAD)	33	39
14.	Symposium on Field Programmable Gate Arrays (FPGA)	32	51
15.	IEEE International Symposium on Circuits and Systems	<u>31</u>	39
16.	Asia and South Pacific Design Automation Conference (ASP-DAC)	<u>29</u>	40
17.	IEEE Symposium on VLSI Circuits (VLSIC)	28	38
18.	IEEE Symposium on Field-Programmable Custom Computing Machines	27	44
19.	Microprocessors and Microsystems	27	36
20.	Symposium on VLSI Circuits	27	34

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

h5-index for this conference: 17

ACM Metrics

Not Sponsored by ACM

Aminer Rank

Aminer rank: 220 Aminer name: Formal Methods in Computer-Aided Design Acronym / shortname: FMCAD h-5 index: 16 CCF level: C THU level: B Top Aminer Cites: http://portal.core.edu.au/core/media/conf_submissions_citations/higherrank1618_aminer_top_cite.png

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Armin Biere, Tom van Dijk, Keijo Heljanko (2017) Template-based Synthesis of Instruction-Level Abstractions for SoC Verification Pramod Subramanyan, Yakir Vizel, Sayak Ray, Sharad Malik (2015) Equivalence checking using Gröbner bases Cited by 24 Cited by 23	3	
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	10	
	Equivalence checking using Gröbner bases	Cited by 23
	Amr A. R. Sayed-Ahmed $^{ ext{Q}}$, Daniel Große, Mathias Soeken, Rolf Drechsler	0.000 0 10
(2016)	(2016)	

Other Rankings

Not aware of any other Rankings Conferences in area:

Top People Publishing Here

name: Kenneth McMillan

justification: h-index 58 (https://scholar.google.com/citations?user=pzFc-eEAAAAJ)

ACM doctoral dissertation award, SRC technical excellence award, ACM Paris Kannelakis award, Alan Newell award from Carnegie Mellon, Computer-aided Verification Conference award (http://i-cav.org/cav-award/)

Paper counts:

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

name: Armin Biere

justification: h-index: 55 (https://scholar.google.com/citations?user=V6ES1nIAAAAJ)

Computer-Aided Verification Conference Award (http://i-cav.org/cav-award/)

Paper counts:

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

Attendance: ALWAYS

name: Alessandro Cimatti

justification: h-index: 61, more than 20k citations

Computer-Aided Verification Conference Award (http://i-cav.org/cav-award/)

Paper counts:

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

Attendance: OFTEN

name: Sharad Malik

justification: h-index: 67, ¿27k citations (https://scholar.google.com/citations?user=MV8KGTOAAAAJ&hl=en&oi=ao) Computer-Aided Verification Conference Award (http://i-cav.org/cav-award/)

Paper counts:

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

Attendance: OCCASIONALLY

name: Daniel Kroening

justification: h-index: 55 (https://scholar.google.com/citations?user=DHddutUAAAAJ&hl=en&oi=ao) Computer-Aided Verification Conference Award (http://i-cav.org/cav-award/)

Paper counts:

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

Attendance: OCCASIONALLY

name: Arie Gurfinkel

justification: h-index: 32 (https://scholar.google.com/citations?user=WHTB3_MAAAAJ&hl=en&oi=ao) Paper counts:

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

Attendance: ALWAYS

name: Cesare Tinelli

justification: h-index: 42 (https://scholar.google.com/citations?user=wbZc9nUAAAAJ&hl=en&oi=ao) Paper counts:

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

Attendance: SOMETIMES

name: Moshe Vardi

justification: h-index: 110 (https://dblp.uni-trier.de/pid/v/MosheYVardi.html)

Highly cited researcher

Guggenheim Fellow, Fellow of the Association for Computing Machinery, Fellow of American Association for the Advancement of Science, and Fellow of the American Association for Artificial Intelligence.

Paper counts:

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

Attendance: OCCASIONALLY

name: Aarti Gupta

justification: h-index: 46 (https://scholar.google.com/citations?user=S_jYB2sAAAAJ&hl=en&oi=ao) Paper counts:

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

Attendance: OCCASIONALLY

name: Roderick Bloem

justification: h-index: 37 (https://scholar.google.com/citations?user=Sv1AfEYAAAAJ&hl=en&oi=ao) Paper counts:

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

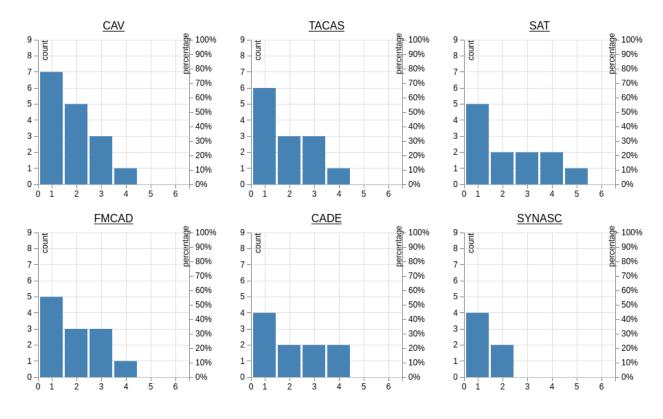
Attendance: OFTEN

Where People Publish

Top (Senior) Program Committee Members

Generated Report Name: conf_submissions_top_spc/higherrank1618_top_spc.csv

WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/higherrank1618_spc_report.txt Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1618_spc_graph.png



Reference item: \\ 4. Formal Methods in Computer-Aided Design (FMCAD)

This conference was published at 14 times by 5 of 9 experts in the last 5 years.

The experts that publish at this conference are: Alberto Griggio(1), Roderick Bloem(5), Armin Biere(4), Kenneth L. McMillan(3), Armando Solar-Lezama(1)

In 2015, there were 3 publications by 3 experts: Armin Biere, Kenneth L. McMillan, Roderick Bloem
In 2016, there were 3 publications by 3 experts: Roderick Bloem, Kenneth L. McMillan, Armando Solar-Lezama
In 2017, there were 2 publications by 1 experts: Armin Biere
In 2018, there were 4 publications by 3 experts: Alberto Griggio, Kenneth L. McMillan, Roderick Bloem
In 2019, there were 2 publications by 2 experts: Armin Biere, Roderick Bloem

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

Top People Report

Method of selection: Top researchers in the field of formal verification (first 10) and formal methods (second 10) according to Google Scholar Keyword: formal verification

name	h-index	gscholar url
David Dill	78	https://scholar.google.at/citations?hl=en&user=uy8T6BYAAAAJ
Randal Bryant	58	https://scholar.google.at/citations?hl=en&user=AFgYa68AAAAJ
Orna Grumberg	52	https://scholar.google.at/citations?hl=en&user=ZPed8YYAAAAJ
Sharad Malik	67	https://scholar.google.at/citations?hl=en&user=MV8KGTOAAAAJ
Kenneth McMillan	58	https://scholar.google.at/citations?hl=en&user=pzFc-eEAAAAJ
Virendra Singh	61	https://scholar.google.at/citations?hl=en&user=cmRwYjAAAAAJ
Alessandro Cimatti	61	https://scholar.google.at/citations?hl=en&user=lbZ6n5IAAAAJ
Armin Biere	55	https://scholar.google.at/citations?hl=en&user=V6ES1nIAAAAJ
Jacob Abraham	61	https://scholar.google.at/citations?hl=en&user=rmkFbFsAAAAJ
John Rushby	57	https://scholar.google.at/citations?hl=en&user=6McSapAAAAAJ
Edmund Clarke	101	https://scholar.google.at/citations?hl=en&user=_adL2C8AAAAJ
Tony Hoare	71	https://scholar.google.at/citations?hl=en&user=v-YdOywAAAAJ
Rajeev Alur	90	https://scholar.google.at/citations?hl=en&user=kWnv_YkAAAAJ
Somesh Jha	84	https://scholar.google.at/citations?hl=en&user=BaI718QAAAAJ
George J. Pappas	91	https://scholar.google.at/citations?hl=en&user=Kia-4BOAAAAJ
David McAllester	64	https://scholar.google.at/citations?hl=en&user=nbpafUkAAAAJ
Jeannette M Wing	55	https://scholar.google.at/citations?hl=en&user=2NjS1dUAAAAJ
Patrick Cousot	55	https://scholar.google.at/citations?hl=en&user=mhlvI8wAAAAJ
Helmut Veith	41	https://scholar.google.at/citations?hl=en&user=mhlvI8wAAAAJ
Aarti Gupta	46	https://scholar.google.com/citations?user=S_jYB2sAAAAJ&hl=en&oi=ao

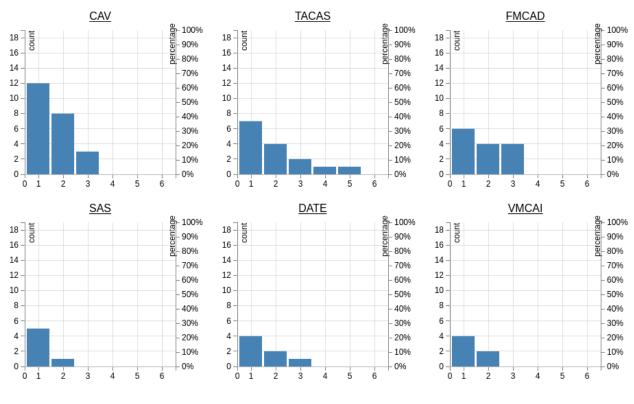
Reference item: \\ . Formal Methods in Computer-Aided Design (FMCAD)

This conference was published at 16 times by 6 of 19 experts in the last 5 years.

The experts that publish at this conference are: Aarti Gupta(2), Helmut Veith(1), Armin Biere(4), Alessandro Cimatti(3), Kenneth L. McMillan(3), Sharad Malik(4)

In 2015, there were 6 publications by 5 experts: Alessandro Cimatti, Kenneth L. McMillan, Armin Biere, Sharad Malik, Helmut Veith In 2016, there were 1 publications by 1 experts: Kenneth L. McMillan In 2017, there were 4 publications by 3 experts: Alessandro Cimatti, Armin Biere, Sharad Malik In 2018, there were 4 publications by 4 experts: Alessandro Cimatti, Kenneth L. McMillan, Aarti Gupta, Sharad Malik In 2019, there were 1 publications by 1 experts: Armin Biere

6 out of the 19 experts published at this conference in 1 or more years
4 out of the 19 experts published at this conference in 3 or more years WPP Report:
http://portal.core.edu.au/core/media/conf_rank_report/higherrank1618_top_people_report.txt
Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1618_top_people_graph.png



Other Information

Comparator Comparison

Comparator

International Symposium on Formal Methods (was Formal Methods Europe FME)

Explanation as to why conference is superior to comparator: Equally good/comparable based on h5 and h-numbers of co-chairs

Link to comparator report: http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1618_851.pdf

Comparator

International Symposium on Automated Technology for Verification and Analysis

Explanation as to why conference is superior to comparator: Equally good/comparable based on h5 and h-numbers of co-chairs Link to comparator report: http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1618_951.pdf

Other Relvant Info

Other relevant information: FMCAD has a strict policy of picking one chair from EDA industry, which in some cases results in lower h-indices.

Attachments

N/A

Proposers

First name: Georg Last name: Weissenbacher Affiliation: TU Wien Email: georg.weissenbacher@tuwien.ac.at

Submitted By

Name: Weissenbacher Georg Email: georg.weissenbacher@gmx.at