



**Submission Data for 2020-2021 CORE conference Ranking process
International Symposium on Formal Methods (was Formal Methods Europe FME)**

Ana Cavalcanti, Stefania Gnesi, Lars-Henrik Eriksson, Nico Plat, Einar Broch Johnsen, Maurice ter Beek

Conference Details

Conference

Title: International Symposium on Formal Methods (was Formal Methods Europe FME)
Acronym : FM
Rank: A

Data and Metrics

Google Scholar Metrics

sub-category url:
https://scholar.google.com.au/citations?view_op=top_venues&hl=en&vq=eng_theoreticalcomputerscienceposition in sub-category: 20+Image of top 20:

Publication	h5-index	h5-median
1. ACM Symposium on Theory of Computing	63	85
2. IEEE Symposium on Foundations of Computer Science (FOCS)	54	78
3. ACM SIAM Symposium on Discrete Algorithms	49	65
4. SIAM Journal on Computing	45	69
5. Journal of the ACM (JACM)	38	57
6. Theoretical Computer Science	37	52
7. International Colloquium on Automata, Languages and Programming (ICALP)	32	42
8. Conference on Innovations in Theoretical Computer Science	31	45
9. Journal of Computer and System Sciences	31	44
10. IEEE Symposium on Logic in Computer Science	31	40
11. ACM Transactions on Algorithms (TALG)	28	37
12. Algorithmica	28	35
13. Fundamenta Informaticae	27	41
14. Logical Methods in Computer Science	27	36
15. Journal of Automated Reasoning	26	43
16. Information Processing Letters	26	35
17. Information and Computation	26	34
18. Random Structures & Algorithms	26	34
19. European Symposium on Algorithms	26	33
20. Journal of Logic and Computation	25	33

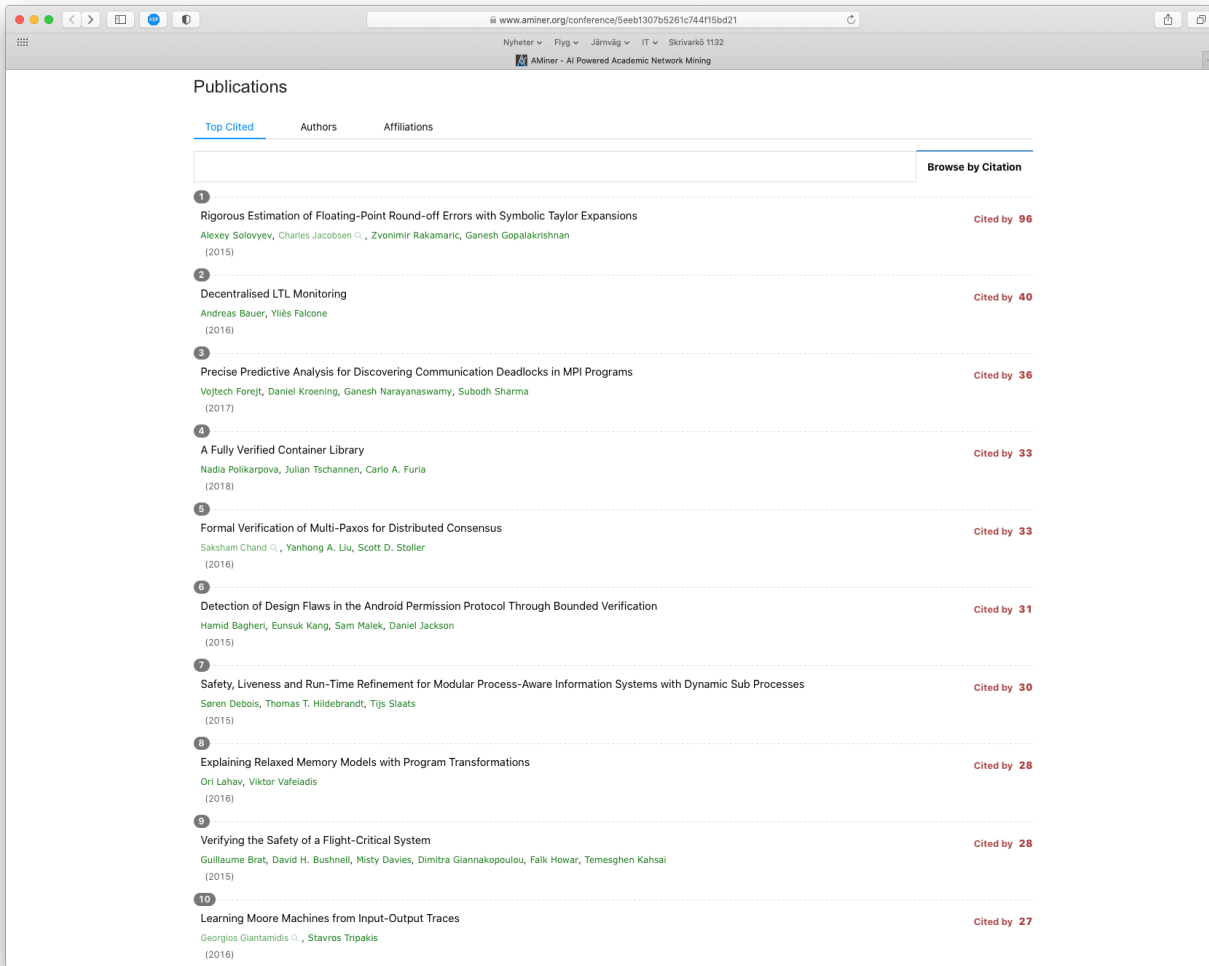
Dates and citation counts are estimated and are determined automatically by a computer program.

ACM Metrics

Not Sponsored by ACM

Aminer Rank

Aminer Rank: 28 Name in Aminer: World Congress on Formal Methods Acronym or Shorthand: FMh-5 Index: 17 CCF: BTHU:    
 Top Aminer Cites: http://portal.core.edu.au/core/media/conf_submissions_citations/extra_info1804_aminer_top_cite.png



Other Rankings

Not aware of any other Rankings

Conferences in area: 1. Formal Methods Symposium (FM) 2. Software Engineering and Formal Methods (SEFM), Integrated Formal Methods (IFM) 3. Fundamental Approaches to Software Engineering (FASE), NASA Formal Methods (NFM), Runtime Verification (RV) 4. Formal Aspects of Component Software (FACS), Automated Technology for Verification and Analysis (ATVA) 5. International Conference on Formal Engineering Methods (ICFEM), FormaliSE, Formal Methods in Computer-Aided Design (FMCAD), Formal Methods for Industrial Critical Systems (FMICS) 6. Brazilian Symposium on Formal Methods (SBMF), Theoretical Aspects of Software Engineering (TASE) 7. International Symposium On Leveraging Applications of Formal Methods, Verification and Validation (ISoLA)

Top People Publishing Here

name: Frank de Boer

justification: h-index: 42 (<https://www.cwi.nl/people/frank-de-boer>)

Frank S. de Boer is senior researcher at the CWI, where he leads the research group on Formal Methods, and Professor of Software Correctness at Leiden University, The Netherlands. He developed a first sound and complete proof method for a (parallel) object-oriented language, designed and implemented at Philips Research Laboratories. Further development has resulted in a comprehensive proof-theory of a variety of object-oriented features and mechanisms like object creation, aliasing, method calls, multi-threading, inheritance and subtyping. His work has received a bronze Achievement Award of Information Technology for European Advancement 2, and the Netherlands Architecture Forum architecture prize. He has published three textbooks on the subject, and 7 papers over the years in FM symposia.

Paper counts:

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

Attendance: SOMETIMES

name: Alessandro Cimatti

justification: h-index: 61 (<https://ict.fbk.eu/people/detail/alessandro-cimatti/>)

Since 2007, Alessandro Cimatti has been in charge of the Embedded Systems (ES) research unit in the ICT Centre of the Bruno Kessler Foundation, which develops various software for formal verification, of which Bounded Model Checking is an integral part. He has participated in multiple technology transfer projects, especially for critical sectors such as aerospace, rail, advanced control and Industry 4.0. For his internationally significant studies in this field, Alessandro last year received the Test of Time Award from ETAPS, the organisation of European conferences on software theory and practice. Alessandro Cimatti won also the "CAV 2018 Award" in Oxford in July 2018. The prestigious award recognised the development of an algorithm used in electronic circuit and software design systems.

Paper counts:

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

Attendance: OFTEN

name: John Derrick

justification: h-index: 35 (<https://www.sheffield.ac.uk/dcs/people/academic/john-derrick>)

John is a Professor at the University of Sheffield, UK, where he was Deputy Vice-Chancellor for Research and Innovation. He is Chair of the British Computer Society Formal Aspects of Computing group on refinement. John runs the long series of International Refinement. He was Vice-chair of IFIP Working Group 6.1 (Architectures and Protocols for Distributed Systems). He is a leader in the area of refinement, having published a textbook in the Area, and over the years 10 papers in FM symposia.

Paper counts:

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

Attendance: OFTEN

name: Joost-Pieter Katoen

justification: Joost-Pieter Katoen is head of the Software Modeling and Verification Group at RWTH Aachen University. Furthermore, and part of the Formal Methods and Tools group at the University of Twente. In 2013, Katoen became Theodore von K arm an Fellow and Distinguished Professor at RWTH Aachen University. Also in 2013, he was elected member of the Academia Europaea. In 2017, he received an honorary doctorate from Aalborg University. In 2018, Katoen was awarded the highly remunerated ERC Advanced Grant. Katoen is a founding member of the IFIP Working Group (WG) 1.8 on Concurrency Theory and a member of the WG 2.2 Formal Description of Programming Concepts. He is a leader in the area of probabilistic formal methods, having published a book on model checking.

Paper counts:

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

Attendance: OCCASIONALLY

name: Shriram Krishnamurthi

justification: h-index: 54

Shriram Krishnamurthi is a professor of at Brown University and a member of the core development group for the Racket programming languages. Since 2006, Krishnamurthi has been a leading contributor to the Bootstrap curriculum, a project to integrate computer science education into grades. Krishnamurthi won several awards. In 2012, he became the inaugural winner of the SIGPLAN2012 Robin Milner Young Researcher Award, given by the Association for Computing Machinery's (ACM) Special Interest Group on Programming Languages (SIGPLAN) to a researcher whose research career began within 20 years of the nomination date. The award citation describes Krishnamurthi as "a prolific researcher who brings programming language theory to bear in many other disciplines, thus exposing its foundational value". He also won the SIGSOFT Influential Educator Award. He published a book on programming languages, and over the years 4 papers in FM symposia.

Paper counts:

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

Attendance: OCCASIONALLY

name: Daniel Kroening

justification: h-index: 52 (https://en.wikipedia.org/wiki/Daniel_Kroening)

Daniel Kroening is a Professor at the University of Oxford, and Chief Science Officer at the company he co-founded, Diffblue Ltd. Previously, Kroening worked at Carnegie Mellon University as a researcher, before joining ETH Z urich as assistant professor. Kroening has published textbooks on decision procedures and hardware design. In his area of expertise, he served as a consultant for companies like Intel, IBM and Fujitsu. In 2016 he co-founded Diffblue Ltd, a developer tools company using artificial intelligence to write code. He is top in the Google Scholar list of scientists in the area of automated verification, and has published a textbook on decision procedures.

Paper counts:

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

Attendance: SOMETIMES

name: Kim Larsen

justification: h-index: 82 (<http://people.cs.aau.dk/~kgl/>)

Kim Larsen is a professor at Aalborg University within the Distributed, Embedded Systems and Intelligent (DEIS) Unit and director of the ICT-competence center CISS, Center for Embedded Software Systems. In 2015 he won an ERC Advanced Grant. He is also director of the Danish Innovation Network InfinIT, as well as the Innovation Fund Denmark research center DiCyPS. He is the prime investigator of the award winning tool UPPAAL as well as its branches targeting planning, optimization, testing, synthesis, machine learning and compositional analysis. He is a leader in the area of real-time formal methods, and has published over the years 7 papers in FM symposia.

Paper counts:

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

Attendance: SOMETIMES

name: Cesar Munoz

justification: h-index: 32 (<https://shemesh.larc.nasa.gov/people/cam/>)

Cesar Munoz is a Researcher at NASA since 2009. He got his M.Sc. and Ph.D. in Computer Science from the University of Paris 7. He then spent one and a half years at the Computer Science Laboratory at SRI International, before joining the Formal Methods group at ICASE – NASA Langley in 1999. From 2003 to 2008, Munoz worked for the National Institute of Aerospace at Langley Research Center, where he led the NIA Formal Methods group. Munoz works on the development of formal methods technologies for NASA's Next Generation of Air Traffic Systems. He takes a leading role in organising the reputable NASA Formal Methods conference. Over the years, he has published 6 papers in FM symposia.

Paper counts:

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

Attendance: OFTEN

name: Andre Platzer

justification: h-index: 42 (<http://symbolaris.com/andre.html>)

Andr  Platzer is a Professor of Computer Science at Carnegie Mellon University. He develops the logical foundations of cyber-physical systems to characterize their fundamental principles and to answer the question how we can trust a computer to control physical processes. Platzer received an ACM Doctoral Dissertation Honorable Mention and NSF CAREER Award, and was named one of the Brilliant 10 Young Scientists by the Popular Science magazine and one of the AI's 10 to Watch by the IEEE Intelligent Systems Magazine. He leads the group that develops Keymaera, the top theorem prover for cyber-physical systems currently. He has published three text books in the area, and over the years 6 papers in FM symposia.

Paper counts:

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

Attendance: SOMETIMES

name: Jim Woodcock

justification: h-index: 41 (<https://www-users.cs.york.ac.uk/~jim/>)

Jim Woodcock is a Professor at the University of York, UK, where he was HoD and takes a leading role in the verification group. He is also a Professor of Digital Twins at Aarhus University, Denmark, and Thousand Talents Professor of Cyber-Physical System at Southwest University in China. He won the Queen's Award for Technological Achievement in 1996. He was appointed to a Fellowship of the Royal Academy of Engineering in 2011 for his lifetime and ongoing contribution to formal methods. He was Chair of the International Verified Software Initiative. He is the Editor in Chief of one of the few journals fully dedicated to Formal Methods: Springer's Formal Aspects of Computing. Over the years, he published 14 papers in FM symposia.

Paper counts:

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

Attendance: ALWAYS

Where People Publish

Top People Report

Method of selection: We have used Google Scholar (https://scholar.google.com/citations?view_op=search_authors), as suggested, with the keyword "formal methods" and list below, in the order provided by Google, the scientists that have "formal methods" as their first or second keyword, and have the minimum h-index required. From this list, we removed one name: Jose Antonio Martin, because he lists formal methods as one of his keywords, but he is a PhD student working in another area. There is clearly something wrong with his page.

	name	h-index	gscholar url
Keyword:	Edmund Clarke	101	https://scholar.google.com/citations?hl=sv&user=_adL2C8AAAAJ
	Tony Hoare	69	https://scholar.google.com/citations?hl=sv&user=v-YdOyWAAAAJ
	Rajeev Alur	90	https://scholar.google.com/citations?hl=sv&user=kWnv_YkAAAAJ
	Joost-Pieter Katoen	68	https://scholar.google.com/citations?hl=sv&user=cjgk2esAAAAJ
	Joseph Sifakis	64	https://scholar.google.com/citations?hl=sv&user=8jCwk4EAAAAJ
	Cliff Jones	45	https://scholar.google.com/citations?hl=sv&user=W9m9SwwAAAAJ
	Sanjit A. Seshia	58	https://scholar.google.com/citations?hl=sv&user=S1ZavnIAAAAAJ
	J Strother Moore	47	https://scholar.google.com/citations?hl=sv&user=91fyr68AAAAJ
	Gethin Norman	50	https://scholar.google.com/citations?hl=sv&user=H3n01XsAAAAJ
	Grigore Rosu	60	https://scholar.google.com/citations?hl=sv&user=yxpqbdQAAAAJ
	Klaus Havelund	50	https://scholar.google.com/citations?hl=sv&user=yr-qU5MAAAAAJ
	Gary T. Leavens	50	https://scholar.google.com/citations?hl=sv&user=NuVARiYAAAAJ
	Aarti Gupta	47	https://scholar.google.com/citations?hl=sv&user=S_jYB2sAAAAJ
	Frits W. Vaandrager	53	https://scholar.google.com/citations?hl=sv&user=2bkj1MgAAAAJ
	Rance Cleaveland	47	https://scholar.google.com/citations?hl=sv&user=EetL2HQAAAAJ
	Calin Belta	52	https://scholar.google.com/citations?hl=sv&user=72yPqG4AAAAJ
	Deepak Kapur	54	https://scholar.google.com/citations?hl=sv&user=U6XKBVIAAAAAJ
	Stavros Tripakis	50	https://scholar.google.com/citations?hl=sv&user=xmdNUEcAAAAJ
	Jin Song Dong	45	https://scholar.google.com/citations?hl=sv&user=tuLa1AsAAAAJ
	Gianfranco Ciardo	45	https://scholar.google.com/citations?hl=sv&user=8rmks2cAAAAJ

Reference item: \ 6. World Congress on Formal Methods (FM)

Core Rank: A

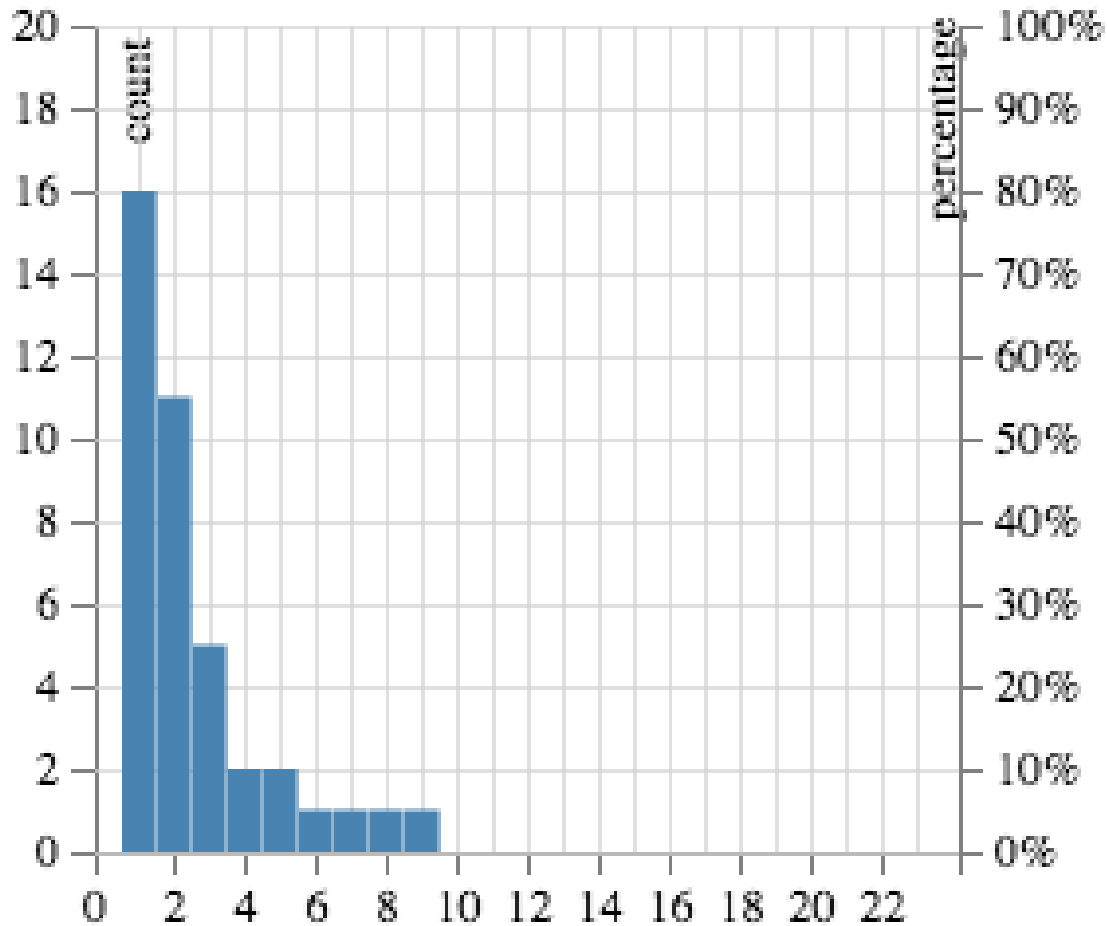
This conference was published at 47 times by 16 of 20 experts in the last 22 years.

The experts that publish at this conference are: Jin Song Dong(12), Gary T. Leavens(2), Aarti Gupta(2), Grigore Rosu(8), Frits W. Vaandrager(2), Joseph Sifakis(2), Joost-Pieter Katoen(4), Stavros Tripakis(2), Rajeev Alur(1), Deepak Kapur(1), Edmund M. Clarke(2), Cliff B. Jones(3), Klaus Havelund(3), Gethin Norman(1), Tony Hoare(1), Sanjit A. Seshia(1)

In 1999, there were 10 publications by 9 experts: Cliff B. Jones, Grigore Rosu, Sanjit A. Seshia, Rajeev Alur, Joseph Sifakis, Jin Song Dong, Stavros Tripakis, Tony Hoare, Gary T. Leavens
 In 2002, there were 1 publications by 1 experts: Jin Song Dong
 In 2003, there were 4 publications by 3 experts: Grigore Rosu, Cliff B. Jones, Jin Song Dong
 In 2005, there were 3 publications by 3 experts: Grigore Rosu, Edmund M. Clarke, Jin Song Dong
 In 2006, there were 1 publications by 1 experts: Joseph Sifakis
 In 2009, there were 4 publications by 4 experts: Jin Song Dong, Frits W. Vaandrager, Edmund M. Clarke, Aarti Gupta
 In 2011, there were 3 publications by 3 experts: Jin Song Dong, Klaus Havelund, Gary T. Leavens
 In 2012, there were 7 publications by 5 experts: Grigore Rosu, Frits W. Vaandrager, Deepak Kapur, Klaus Havelund, Jin Song Dong
 In 2014, there were 2 publications by 2 experts: Aarti Gupta, Klaus Havelund
 In 2015, there were 2 publications by 2 experts: Jin Song Dong, Joost-Pieter Katoen
 In 2016, there were 2 publications by 2 experts: Jin Song Dong, Stavros Tripakis
 In 2018, there were 2 publications by 1 experts: Joost-Pieter Katoen
 In 2019, there were 6 publications by 4 experts: Grigore Rosu, Gethin Norman, Cliff B. Jones, Joost-Pieter Katoen

16 out of the 20 experts published at this conference in 1 or more years
 11 out of the 20 experts published at this conference in 2 or more years
 5 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 5 or more years
 1 out of the 20 experts published at this conference in 9 or more years WPP Report:
http://portal.core.edu.au/core/media/conf_rank_report/extra_info1804_top_people_report.txt
 Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/extra_info1804_top_people_graph.png

FM



Other Information

Attachments

http://portal.core.edu.au/core/media/request_attachment/CORE_statement.pdf

Proposers

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