



**Submission Data for 2020-2021 CORE conference Ranking process  
International Conference on Runtime Verification (was workshop pre 2010)**

Ezio Bartocci, Howard Barringer, Saddek Bensalem, Ylies Falcone, Klaus Havelund, Insup Lee, Giles Reger, Grigore Rosu, Oleg Sokolsky

## **Conference Details**

### **Conference**

Title: International Conference on Runtime Verification (was workshop pre 2010)

Acronym : RV

Rank: C

### **Requested Rank**

Rank: B

### **Recent Years**

### **Proceedings Publishing Style**

Proceedings Publishing: series

Link to most recent proceedings: <https://link.springer.com/book/10.1007%2F978-3-030-60508-7>

Further details: The proceedings for RV from 2001 to 2005 were published in Electronic Notes in Theoretical Computer Science (ENTCS). Since 2006, the RV proceedings have been published in Lecture Notes in Computer Science (LNCS).

In 2018 RV was accepted for publication in the Formal Methods subline of LNCS, invited by subline series editors Ana Cavalcanti, University of York, UK and Marie-Claude Gaudel, Universit'e de Paris-Sud, France. Acceptance for this subline requires an additional level of quality. As it was stated in the invitation from Ana Cavalcanti and Marie-Claude Gaudel: "LNCS volumes in the area of formal methods will not be necessarily included in the new subline. The idea is that inclusion in the subline becomes an extra stamp of quality for the event, tutorial, or state-of-the-art survey. For that, we are pleased to count with the support of a very prestigious Advisory Board, and hope to receive applications from the organisers of the well established events in our area." It should be emphasized that RV was invited (as part of the launch of this subline). Our first proceedings in this subline was RV 2019.

Eleven journal issues have been, or are in the process of being, published containing selected papers from RV workshops and conferences. This includes eight issues of Formal Methods in System Design (FMSD) and three issues of International Journal on Software Tools for Technology Transfer (STTT).

There are four categories of papers which can be submitted: regular, short, tool demo, and benchmark papers. Papers in each category will be reviewed by at least 3 members of the Program Committee.

Regular Papers (up to 16 pages, not including references) should present original unpublished results. We welcome theoretical papers, system papers, papers describing domain-specific variants of RV, and case studies on runtime verification. Short Papers (up to 8 pages, not including references) may present novel but not necessarily thoroughly worked out ideas, for example emerging runtime verification techniques and applications, or techniques and applications that establish relationships between runtime verification and other domains. Tool Demonstration Papers (up to 8 pages, not including references) should present a new tool, a new tool component, or novel extensions to existing tools supporting runtime verification. The paper must include information on tool availability, maturity, selected experimental results and it should provide a link to a website containing the theoretical background and user guide. Furthermore, we strongly encourage authors to make their tools and benchmarks available with their submission. Benchmark papers (up to 8 pages, not including references) should describe a benchmark, suite of benchmarks, or benchmark generator useful for evaluating RV tools. Papers should include information as to what the benchmark consists of and its purpose (what is the domain), how to obtain and use the benchmark, an argument for the usefulness of the benchmark to the broader RV community and may include any existing results produced using the benchmark. We are interested in both benchmarks pertaining to real-world scenarios and those containing synthetic data designed to achieve interesting properties. Broader definitions of benchmark e.g. for generating specifications from data or diagnosing faults are within scope. We encourage benchmarks that are tool agnostic, especially if they have been used to evaluate multiple tools. We also welcome benchmarks that contain verdict labels and with rigorous arguments for correctness of these verdicts, and benchmarks that are demonstrably challenging with respect to the state-of-the-art tools. Benchmark papers must be accompanied by an easily accessible and usable benchmark submission. Papers will be evaluated by a separate benchmark evaluation panel who will assess the benchmarks relevance, clarity, and utility as communicated by the submitted paper.

## Most Recent Years

### Most Recent Year

Year: 2019

URL: <https://www.react.uni-saarland.de/rv2019/>

Location: Porto, Portugal

Papers submitted: 38

Papers published: 19

Acceptance rate: 50

Source for numbers: <https://link.springer.com/content/pdf/bfm%3A978-3-030-32079-9%2F1.pdf>

### General Chairs

No General Chairs

### Program Chairs

Name: Prof. Leonardo Mariani (ERC Consolidar Winner) Affiliation: University of Milan Bicocca, Milan, Italy Gender: M H Index: 28 GScholar url: <a href="https://scholar.google.com/citations?user=cNkeo34AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=cNkeo34AAAAJ&amp;hl=en</a> DBLP url: <a href="https://dblp.org/pid/27/2914.html">https://dblp.org/pid/27/2914.html</a>
--

Name: Prof. Bernd Finkbeiner (ERC Consolidar Winner) Affiliation: Saarland University, Saarbrücken, Germany Gender: M H Index: 29 GScholar url: <a href="https://scholar.google.com/citations?user=mSwHrYMAAAAJ&amp;hl=de">https://scholar.google.com/citations?user=mSwHrYMAAAAJ&amp;hl=de</a> DBLP url: <a href="https://dblp.org/pid/73/4443.html">https://dblp.org/pid/73/4443.html</a>
--

### Second Most Recent Year

Year: 2018

URL: <https://rv2018.isp.uni-luebeck.de/>

Location: Limassol, Cyprus

Papers submitted: 49

Papers published: 21

Acceptance rate: 43

Source for numbers: <https://link.springer.com/content/pdf/bfm%3A978-3-030-03769-7%2F1.pdf>

### General Chairs

Name: Prof. Saddek Bensalem Affiliation: Université Grenoble Alpes, France Gender: M H Index: 36 GScholar url: <a href="https://scholar.google.com/citations?user=UxarTKgAAAAJ&amp;hl=de">https://scholar.google.com/citations?user=UxarTKgAAAAJ&amp;hl=de</a> DBLP url: <a href="https://dblp.org/pid/01/5624.html">https://dblp.org/pid/01/5624.html</a>
---

### Program Chairs

Name: Prof. Martin Leucker Affiliation: University of Lübeck, Lübeck, Germany Gender: M H Index: 35 GScholar url: <a href="https://scholar.google.com/citations?user=K5TogrcAAAAJ&amp;hl=de">https://scholar.google.com/citations?user=K5TogrcAAAAJ&amp;hl=de</a> DBLP url: <a href="https://dblp.org/pid/1/MartinLeucker.html">https://dblp.org/pid/1/MartinLeucker.html</a>
--

Name: Dr. Christian Colombo Affiliation: University of Malta, Malta Gender: M H Index: 15 GScholar url: <a href="https://scholar.google.com/citations?user=eFR81kgAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=eFR81kgAAAAJ&amp;hl=en</a> DBLP url: <a href="https://dblp.org/pid/39/7271.html">https://dblp.org/pid/39/7271.html</a>
--

### Third Most Recent Year

Year: 2017

URL: <http://rv2017.cs.manchester.ac.uk/>

Location: Seattle, WA, USA

Papers submitted: 58

Papers published: 27

Acceptance rate: 47

Source for numbers: <https://link.springer.com/content/pdf/bfm%3A978-3-319-67531-2%2F1.pdf>

### General Chairs

Name: Klaus Havelund Affiliation: NASA JPL, California Institute of Technology, USA Gender: M H Index: 50 G Scholar url: <a href="https://scholar.google.com/citations?user=yr-qU5MAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=yr-qU5MAAAAJ&amp;hl=en</a> DBLP url: <a href="https://dblp.org/pid/84/3029.html">https://dblp.org/pid/84/3029.html</a>
---

### Program Chairs

Name: Shuvendu Lahiri Affiliation: Microsoft Research Gender: M H Index: 34 G Scholar url: <a href="https://scholar.google.com/citations?user=0PzT1VoAAAAJ&amp;hl=de">https://scholar.google.com/citations?user=0PzT1VoAAAAJ&amp;hl=de</a> DBLP url: <a href="https://dblp.org/pid/32/2903.html">https://dblp.org/pid/32/2903.html</a>
---

Name: Giles Reger Affiliation: University of Manchester, UK Gender: M H Index: 17 G Scholar url: <a href="https://scholar.google.com/citations?hl=de&amp;user=Js3EdsEAAAAJ">https://scholar.google.com/citations?hl=de&amp;user=Js3EdsEAAAAJ</a> DBLP url: <a href="https://dblp.org/pid/118/0099.html">https://dblp.org/pid/118/0099.html</a>
---

### Policies

Chair Selection: Usually PC chairs for RV are chosen according to two criteria: (1) they are known excellent researchers within the field of RV, and (2) they are willing to do the ground work needed to organize such an event. This leads often to mid carrier researchers (due to especially criteria 2). We occasionally combine mid carrier researchers in PC chair roles with more established researchers, e.g. as general chairs. However, we try to have at least two PC chairs that both are able to do the detailed work in the trenches. We do not want all work to land on the shoulders of one person. Chairs are always chosen with great attention to quality of the chosen researchers as well as ability to do the hard work.

Policy name: RV policy

Policy url: <https://runtime-verification.github.io/policy.html>

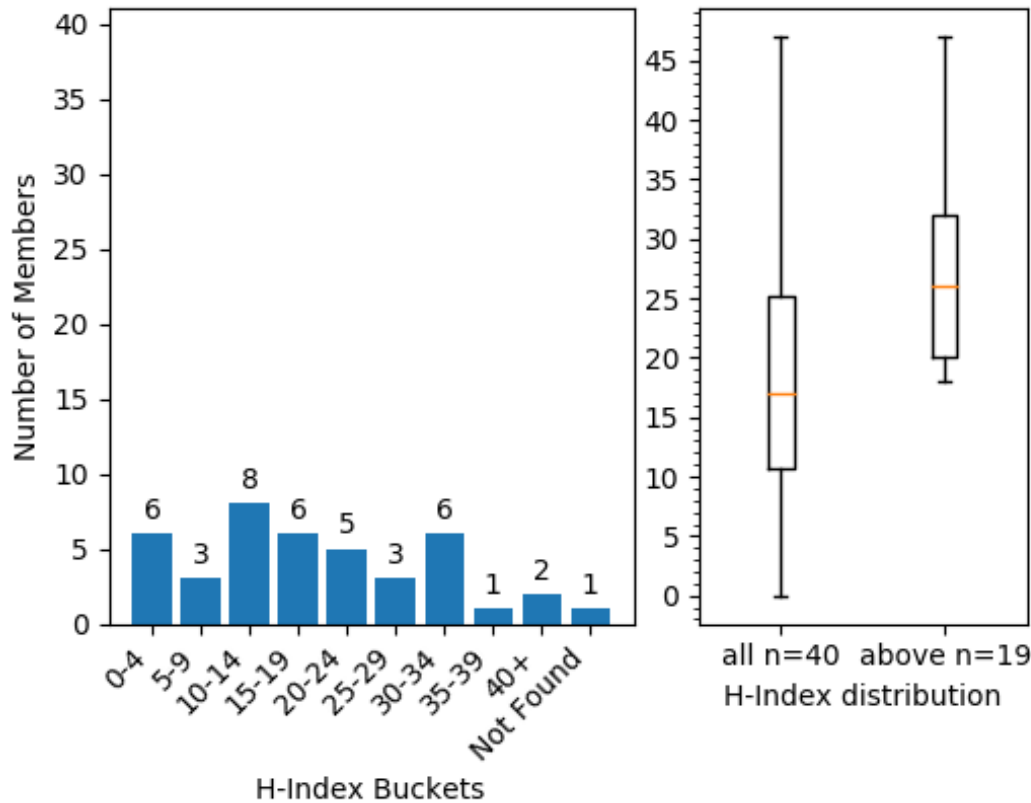
### (Senior) Program Committee

Link to (s)pc: <https://www.react.uni-saarland.de/rv2019/pc.html>

File: [http://portal.core.edu.au/core/media/conf\\_submissions\\_spc\\_file/spcrv2019\\_RFGJGDo.txt](http://portal.core.edu.au/core/media/conf_submissions_spc_file/spcrv2019_RFGJGDo.txt)

H-index plot: [http://portal.core.edu.au/core/media/conf\\_submissions\\_hindex\\_plots/hindex\\_buckets\\_1568.png](http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1568.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\\_softwaresystems](https://scholar.google.com.au/citations?view_op=top_venues&hl=en&vq=eng_softwaresystems)

Position in sub-category: 20+

Image of top 20: [http://portal.core.edu.au/core/media/changes\\_h5/higherrank1568\\_gscholar\\_minh5.pdf](http://portal.core.edu.au/core/media/changes_h5/higherrank1568_gscholar_minh5.pdf)

No Google Scholar h5 index available for this conference

Potential reason for no h5 index: We select a subarea that is the closest, but not optimal for our conference. There are not good subareas listed that would fit entirely the topics of our conferences. For example, Computer Aided Verification (CAV) is listed in the subarea of Hardware design (but this is misleading, because is not only about hardware and it is not only about design). We would need a subarea called Computer Aided Verification or Formal Methods but now it is missing. To the best of our knowledge there is no conference ranked B (according to CORE) that is also listed in any of these subareas.

**ACM Metrics**

Not Sponsored by ACM

**Aminer Rank**

Not Listed in Aminer

**Other Rankings**

Not aware of any other Rankings

Conferences in area: International Conference on Computer-Aided Verification (CAV)

International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS)

International Symposium on Automated Technology for Verification and Analysis (ATVA)

(\*) International Conference on Runtime Verification (RV)

Verification, Model Checking and Abstract Interpretation (VMCAI)

International Conference on Integrated Formal Methods (IFM)

International Colloquium on Theoretical Aspects of Computing (ICTAC)

## Top People Publishing Here

name: Doron A. Peled

justification: 24000 citations, h-index 48 <https://scholar.google.com.au/citations?hl=en&user=XF61SSwAAAAJ>

Wikipedia [https://en.wikipedia.org/wiki/Doron\\_A.\\_Peled](https://en.wikipedia.org/wiki/Doron_A._Peled)

He won the CAV award in 2014

<https://dblp.org/pid/p/DPeled.html>

Top 1 in the category runtime verification

[https://scholar.google.com/citations?view\\_op=search\\_authors&hl=de&mauthors=label:runtime\\_verification](https://scholar.google.com/citations?view_op=search_authors&hl=de&mauthors=label:runtime_verification)

Paper counts:

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

Attendance: ALWAYS

name: David A. Basin

justification: He is a fellow ACM and IEEE <http://people.inf.ethz.ch/basin/>

H-index 58  $\hat{\sim}$  13000 <https://scholar.google.com/citations?hl=de&user=-BA-kHYAAAAJ>

Paper counts:

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

Attendance: OFTEN

name: Insup Lee

justification: <https://www.cis.upenn.edu/~lee/home/index.shtml> He is ACM fellow and IEEE fellow and received IEEE TC-RTS Outstanding Technical Achievement and Leadership Award in 2008.

h-index 63  $\hat{\sim}$  18000 citations <https://scholar.google.com/citations?user=qP1UgrgAAAAJ&hl=en>

Steering Committee Member of RV

Paper counts:

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

Attendance: OFTEN

name: Klaus Havelund

justification: <http://www.havelund.com/>

Num. 4 for the number of citations in Runtime Verification Area in Google Scholar:

[https://scholar.google.com/citations?view\\_op=search\\_authors&hl=de&mauthors=label:runtime\\_verification](https://scholar.google.com/citations?view_op=search_authors&hl=de&mauthors=label:runtime_verification)

H-index  $\hat{\sim}$  50 Citations  $\hat{\sim}$  12000

Steering Committee Member of RV

Paper counts:

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

Attendance: ALWAYS

name: Grigore Rosu

justification: [https://en.wikipedia.org/wiki/Grigore\\_Rosu](https://en.wikipedia.org/wiki/Grigore_Rosu)

h-index  $\hat{\sim}$  59 citations  $\hat{\sim}$  12000

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

IEEE/ACM most influential paper of Automate Software Engineering (ASE) award in 2016 (for an ASE 2001 paper)

Runtime Verification (RV) test of time award (for an RV 2001 paper)

ACM distinguished paper awards at ASE 2008, ASE 2016, and OOPSLA 2016

Best software science paper award at ETAPS 2002

NSF CAREER award in 2005

Ad Astra award in 2016

Steering Committee Member of RV

Paper counts:

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

Attendance: OFTEN

name: Sanjit A. Seshia

justification: h-index  $\hat{\sim}$  56 Citations  $\hat{\sim}$  13000 <https://scholar.google.com/citations?user=SlZavnIAAAAAJ&hl=de&oi=ao>

Fellow of the Institute of Electrical and Electronics Engineers (IEEE) (2018)

ACM/IEEE International Conference on Software Engineering (ICSE) Most Influential Paper Award (2020)

Awarded to the ICSE 2010 paper judged to have had the most influence on the theory or practice of software engineering during the 10 years since its original publication.

Donald O. Pederson Best Paper Award for the IEEE Transactions on Computer-Aided Design of Circuits and Systems (2017)

Presidential Early Career Award for Scientists and Engineers  $\hat{\sim}$  PECASE Awarded by the White House in 2008; one of 67 awardees nation-wide in all fields of science and engineering

NSF CAREER Award (2007)

<http://people.eecs.berkeley.edu/~sseshia/CV/seshia-cv.pdf>

Paper counts:

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

Attendance: OFTEN

name: Oleg Sokolsky

justification: h-index  $\zeta$  = 49 citations  $\zeta$  8000 <https://scholar.google.com/citations?hl=de&user=J0SKz5YAAAAJ>

Paper counts:

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

Attendance: ALWAYS

name: Sriram Sankaranarayanan

justification: NSF Career Award h-index  $\zeta$  = 41

<https://scholar.google.com/citations?user=V8RKLEsAAAAJ&hl=de>

Paper counts:

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

Attendance: SOMETIMES

name: Shaz Qadeer

justification: h-index  $\zeta$  50

<https://scholar.google.com/citations?hl=de&user=EqIVfYcAAAAJ>

Paper counts:

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

Attendance: SOMETIMES

name: Scott A. Smolka

justification: Distinguished Professor

Fellow of the European Association for Theoretical Computer Science (EATCS)

<https://www.cs.stonybrook.edu/people/faculty/ScottSmolka>

H-index  $\zeta$  = 52 Citations  $\zeta$  9900 <https://scholar.google.com/citations?hl=de&user=4q-QenMAAAAJ>

6 RV papers Chair of RV IN 2014

Paper counts:

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

Attendance: OCCASIONALLY

## Where People Publish

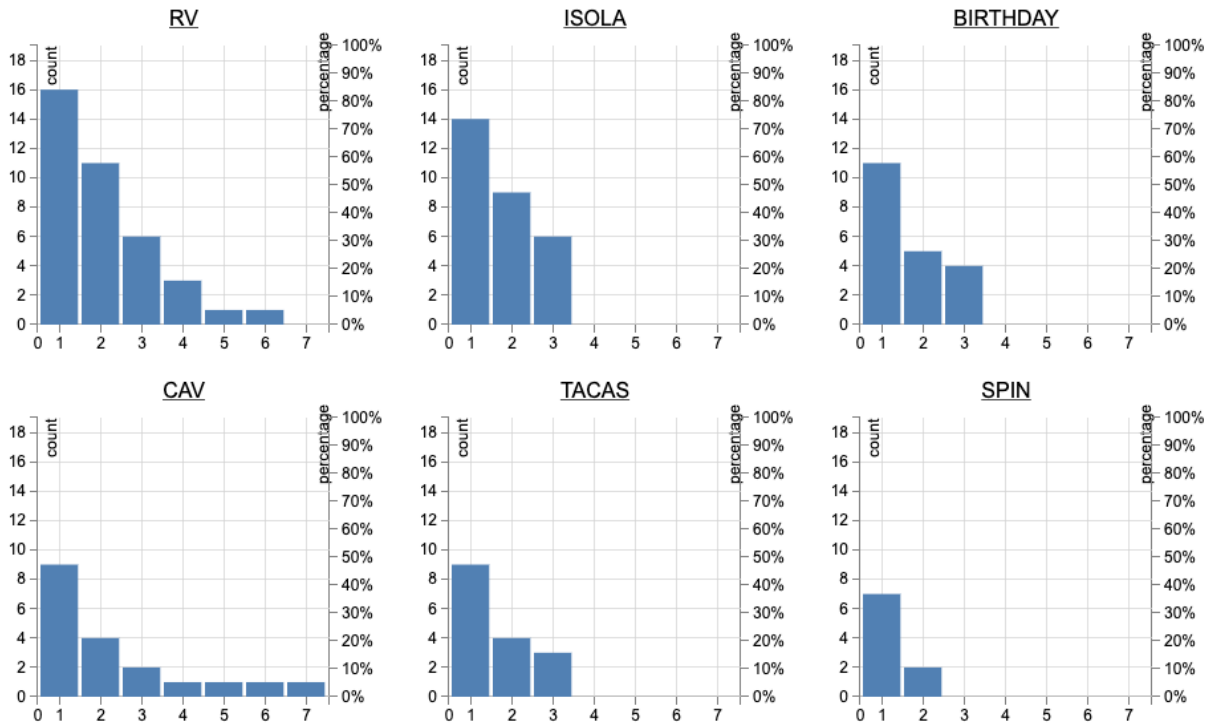
### Top (Senior) Program Committee Members

Generated Report Name: conf\_submissions\_top\_spc/higherrank1568\_top\_spc.csv

WPP Report: [http://portal.core.edu.au/core/media/conf\\_rank\\_report/higherrank1568\\_spc\\_report.txt](http://portal.core.edu.au/core/media/conf_rank_report/higherrank1568_spc_report.txt)

Graphs: [http://portal.core.edu.au/core/media/conf\\_rank\\_graphs/higherrank1568\\_spc\\_graph.png](http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1568_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: \\ This conference was published at 47 times by 16 of 19 experts in the last 6 years.

The experts that publish at this conference are: Viviana Mascardi(1), Scott A. Smolka(2), Xiangyu Zhang 0001(1), Grigore Rosu(6), Chao Wang 0001(1), Oleg Sokolsky(5), Radu Grosu(3), Klaus Havelund(5), Leonardo Mariani(1), Bernd Finkbeiner(4), Ezio Bartocci(4), Bernhard Steffen(3), Scott D. Stoller(2), Axel Legay(1), Ylis Falcone(16), Doron A. Peled(3)

In 2014, there were 7 publications by 6 experts: Ezio Bartocci, Axel Legay, Grigore Rosu, Bernhard Steffen, Chao Wang 0001, Ylis Falcone

In 2015, there were 8 publications by 7 experts: Scott A. Smolka, Grigore Rosu, Bernhard Steffen, Scott D. Stoller, Oleg Sokolsky, Radu Grosu, Ylis Falcone

In 2016, there were 11 publications by 8 experts: Ezio Bartocci, Bernd Finkbeiner, Grigore Rosu, Oleg Sokolsky, Ylis Falcone, Radu Grosu, Klaus Havelund, Doron A. Peled

In 2017, there were 5 publications by 5 experts: Oleg Sokolsky, Ylis Falcone, Bernd Finkbeiner, Xiangyu Zhang 0001, Leonardo Mariani

In 2018, there were 10 publications by 6 experts: Ezio Bartocci, Viviana Mascardi, Grigore Rosu, Ylis Falcone, Klaus Havelund, Doron A. Peled

In 2019, there were 6 publications by 6 experts: Scott A. Smolka, Scott D. Stoller, Oleg Sokolsky, Ylis Falcone, Klaus Havelund, Doron A. Peled

16 out of the 19 experts published at this conference in 1 or more years

11 out of the 19 experts published at this conference in 2 or more years

6 out of the 19 experts published at this conference in 3 or more years

3 out of the 19 experts published at this conference in 4 or more years

1 out of the 19 experts published at this conference in 6 or more years

### Top People Report

Not providing Top People Report

### Other Information

### Comparator Comparison

### Comparator

International Conference on Coordination Models and Languages

Explanation as to why conference is superior to comparator:

(We refer to the report in attachment request\_attachment/Application\_for\_a\_B\_ranking\_of\_RV.pdf)

Wrt. COORDINATION, RV's submission rates are higher in the last seven years.

The average acceptance rate of the last seven editions of RV (45.09\%) is less than COORDINATION (46.01\%).

Link to comparator report:

[http://portal.core.edu.au/core/media/conference\\_submission\\_2020/Data\\_Comparator\\_for\\_1568\\_728.pdf](http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1568_728.pdf)

### **Comparator**

International Symposium on Temporal Representation and Reasoning

Explanation as to why conference is superior to comparator:

(We refer to the report in attachment request\_attachment/Application\_for\_a\_B\_ranking\_of\_RV.pdf)

Wrt. TIME, RV's submission rates are higher in the last years.

The average acceptance rate of the last seven editions of RV (45.09\%) is less than those of TIME (62.84\%)

Link to comparator report:

[http://portal.core.edu.au/core/media/conference\\_submission\\_2020/Data\\_Comparator\\_for\\_1568\\_730.pdf](http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1568_730.pdf)

### **Other Relvant Info**

Other relevant information: The RV conference is currently ranked as a C conference according to the Portal Core\footnote{\url{<http://portal.core.edu.au/conf-ranks/1932/>}}. This ranking was given to RV during its status as a workshop (likely somewhere during the years 2001-2009 unless an error was made in its classification as a workshop). We only noticed in late 2016\footnote{We were in 2016 made aware of CORE due to several independent authors from Asia that contacted us and expressed their worries about the C ranking of RV.} that it was recorded as workshop, which we reported to CORE, upon which it was corrected by CORE, and recorded as a conference in early 2017. That is 6 years after it became a conference and there was not an open call (at least we were not aware of any) for updating the conference ranking. It seems like RV has not been re-evaluated since it was first evaluated more than a decade ago. We believe that the current C ranking is out of date and far from reflecting reality, and we are therefore applying for at least a B ranking. The document in attachment first gives a general argument based on CORE's official ranking criteria. Then follows various collected data supporting the argument.

### **Attachments**

[http://portal.core.edu.au/core/media/request\\_attachment/application.pdf](http://portal.core.edu.au/core/media/request_attachment/application.pdf)

### **Proposers**

First name: Ezio

Last name: Bartocci

Affiliation: TU Wien, Austria

Email: ezio.bartocci@tuwien.ac.at

First name: Howard

Last name: Barringer

Affiliation: University of Manchester, UK

Email: howard.barringer@manchester.ac.uk

First name: Saddek

Last name: Bensalem

Affiliation: Univ. Grenoble Alpes, France

Email: saddek.bensalem@univ-grenoble-alpes.fr

First name: Ylies

Last name: Falcone

Affiliation: Univ. Grenoble Alpes, France

Email: ylies.falcone@univ-grenoble-alpes.fr

First name: Klaus

Last name: Havelund

Affiliation: NASA JPL, California Institute of Technology, USA

Email: Klaus.Havelund@jpl.nasa.gov

First name: Insup

Last name: Lee

Affiliation: UPenn, USA

Email: lee@cis.upenn.edu



First name: Giles  
Last name: Reger  
Affiliation: University of Manchester, UK  
Email: giles.reger@manchester.ac.uk

First name: Grigore  
Last name: Rosu  
Affiliation: University of Illinois at Urbana-Champaign, USA  
Email: grosu@illinois.edu

First name: Oleg  
Last name: Sokolsky  
Affiliation: UPenn  
Email: sokolsky@cis.upenn.edu

**Submitted By**

Name: Bartocci Ezio  
Email: ezio.bartocci@gmail.com