Submission Data for 2020-2021 CORE conference Ranking process
IEEE Conference on Virtual Reality and 3D User Interfaces

Ed Swan, Mark Billinghurst

Conference Details

Conference

Title: IEEE Conference on Virtual Reality and 3D User Interfaces
Acronym : VR
Rank: A

Requested Rank

Rank: A*

Recent Years

Proceedings Publishing Style

Proceedings Publishing: self-contained
Link to most recent proceedings: `https://ieeexplore.ieee.org/xpl/conhome/1000791/all-proceedings`
Further details: IEEE VR accepts both journal and conference submissions. The accepted journal papers appear in the IEEE Transactions on Visualization and Computer Graphics (TVCG), while the conference submissions appear in the IEEE Xplore digital library.

Most Recent Years

Most Recent Year

Year: 2019
URL: `https://ieeevr.org/2019/`
Location: Osaka, Japan
Papers submitted: 584
Papers published: 128
Acceptance rate: 22
Source for numbers: `https://www.youtube.com/watch?v=fn3XH7TrU_s`

General Chairs

Name: Kiyoshi Kiyokawa
Affiliation: NAIST
Gender: M
H Index: 32
GScholar url: `https://scholar.google.com/citations?user=Za5kSocAAAAJ&hl=en&oi=ao`
DBLP url:

Program Chairs

Name: Bruce Thomas
Affiliation: University of South Australia
Gender: M
H Index: 45
GScholar url: `https://scholar.google.com/citations?user=1qChpEwAAAAJ&hl=en&oi=ao`
DBLP url:

Second Most Recent Year

Year: 2018
URL: https://ieeevr.org/2018/
Location: Reutlingen, Germany
Papers submitted: 494
Papers published: 94
Acceptance rate: 19
Source for numbers: https://ieeevr.org/2018/docs/IEEEVR_2018_FullProgram.pdf

General Chairs

Name: Betty Mohler
Affiliation: Max Planck Institute for Biological Cybernetics
Gender: F
H Index: 34
GScholar url: https://scholar.google.com/citations?user=fjAWIaAAAAAJ&hl=en&oi=ao
DBLP url:

Program Chairs

Name: Frank Steinicke
Affiliation: University of Hamburg
Gender: M
H Index: 40
GScholar url: https://scholar.google.com/citations?user=bmRsMpUAAAAJ&hl=en&oi=ao
DBLP url:

Third Most Recent Year

Year: 2017
URL: https://ieeevr.org/2017/
Location: Los Angeles, USA
Papers submitted: 174
Papers published: 39
Acceptance rate: 22
Source for numbers: https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7892221

General Chairs

Name: Evan Suma Rosenberg
Affiliation: University of Southern California
Gender: M
H Index: 32
GScholar url: https://scholar.google.com/citations?user=yK8fnhkAAAAJ&hl=en&oi=ao
DBLP url:

Program Chairs

Name: Victoria Interrante
Affiliation: University of Minnesota
Gender: F
H Index: 38
GScholar url: https://scholar.google.com/citations?user=vQQOZVgAAAAJ&hl=en&oi=ao
DBLP url:

Policies

Chair Selection: The General Chairs are selected by the IEEE VR steering committee based on proposals submitted two years before the conference. One general chair from the previous year continues to the current year.
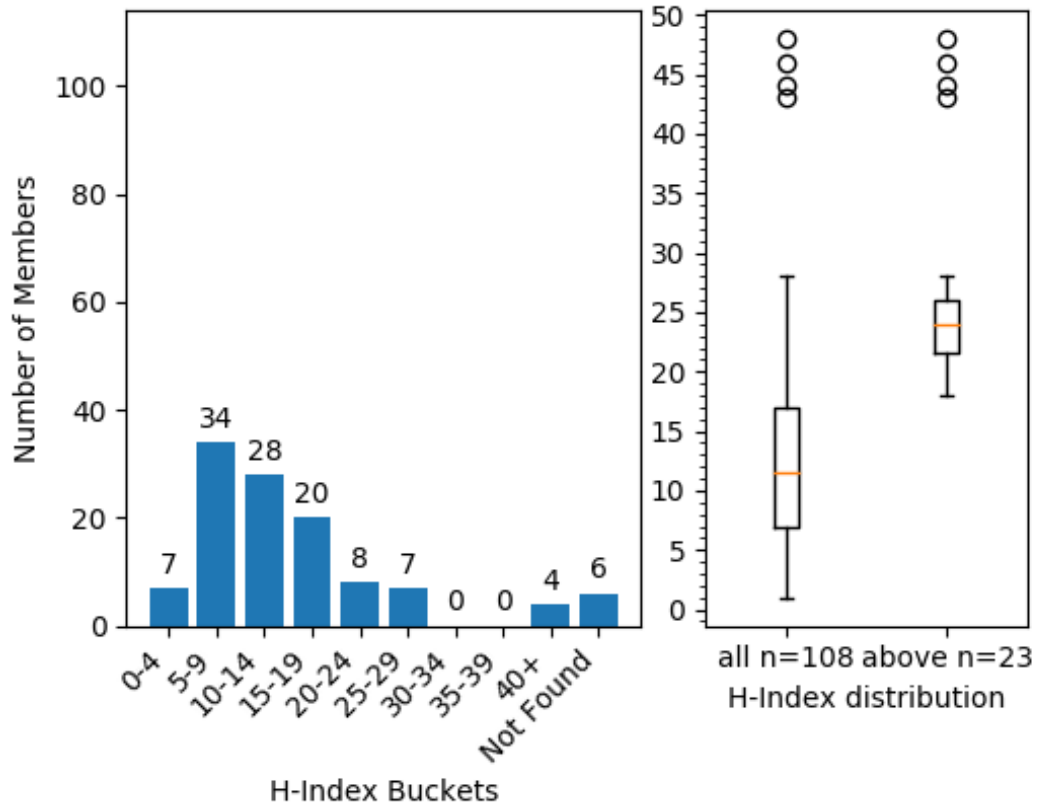The General Chairs select the Program Chairs and other chairs.
No Policies.

(Senior) Program Committee

Link to (s)pc: https://ieeevr.org/2019/committees/program.html
File: http://portal.core.edu.au/core/media/conf_submissions_spc_file/IEEEVR2019PC_oz03rPS.txt
H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1746.png
Information Contained within this graph is derived using the Elsevier Scopus Database 2021.

Data and Metrics

Google Scholar Metrics

	Publication	h5-index	h5-median
1.	Computer Human Interaction (CHI)	95	122
2.	ACM Conference on Computer-Supported Cooperative Work & Social Computing	61	86
3.	ACM Conference on Pervasive and Ubiquitous Computing (UbiComp)	54	91
4.	ACM/IEEE International Conference on Human Robot Interaction	46	66
5.	IEEE Transactions on Affective Computing	45	85
6.	ACM Symposium on User Interface Software and Technology	44	68
7.	International Journal of Human-Computer Studies	43	70
8.	IEEE Transactions on Human-Machine Systems	40	64
9.	Behaviour & Information Technology	36	48
10.	ACM Transactions on Computer-Human Interaction (TOCHI)	34	53
11.	International Conference on Multimodal Interfaces (ICMI)	33	63
12.	IEEE Transactions on Haptics	31	44
13.	International Journal of Human-Computer Interaction	31	44
14.	Conference on Designing Interactive Systems	31	41
15.	Universal Access in the Information Society	31	41
16.	International Conference on Intelligent User Interfaces (IUI)	31	39
17.	HCI International	30	45
18.	Mobile HCI	30	43
19.	IEEE Virtual Reality Conference	28	38
20.	International Conference on Tangible, Embedded, and Embodied Interaction	27	41

h5-index for this conference: 28

ACM Metrics

Not Sponsored by ACM

Aminer Rank

Aminer rank: 5
Aminer name: IEEE Virtual Reality
Acronym / shortname: [VR]
h-5 index: 28
CCF level: A
THU level: S
Top Aminer Cites: `http://portal.core.edu.au/core/media/conf_submissions_citations/higherrank1746_aminer_top_cite.png`

Other Rankings

Not aware of any other Rankings
Conferences in area: IEEE VR IEEE ISMAR ACM SIGGRAPH ACM VRST ACM CHI ACM UIST

Top People Publishing Here

name: Mel Slater
justification: H Index 94 Top 20 in Google Area of Virtual Reality `https://scholar.google.com/citations?hl=en&user=5gGSgcUAAAAJ`
Paper counts:

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

Attendance: SOMETIMES
name: Steve Feiner
justification: H index 79 Top 20 h-index in Google Scholar for Virtual Reality ACM Fellow
`https://scholar.google.com/citations?user=PogsVkYAAAAJ&hl=en&oi=ao`
Paper counts:

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

Attendance: ALWAYS
name: Dieter Schmalstieg
justification: H index 70 Top 20 h-index in Google Scholar for Virtual Reality
`https://scholar.google.com/citations?user=xXu8K6IAAAAJ&hl=en&oi=ao` IEEE Fellow
Paper counts:

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

Attendance: ALWAYS
name: Henry Fuchs
justification: H index 69 Top 20 h-index in Google Scholar for Virtual
https://scholar.google.com/citations?user=guhwcP8AAAAJ&hl=en&oi=ao
Paper counts:

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

Attendance: ALWAYS
name: Dinesh Manocha
justification: H Index 121 Top 5 h-index in Google Scholar for Virtual
https://scholar.google.com/citations?user=X08l_4IAAAAJ&hl=en&oi=ao
Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
4	3	2	0	2

Attendance: SOMETIMES
name: Mark Billinghurst
justification: H Index 76 Top 20 h-index in Google Scholar for Virtual
https://scholar.google.com/citations?user=S-J_ItYAAAAJ&hl=en&oi=ao
Paper counts:

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

Attendance: SOMETIMES
name: Doug Bowman
justification: H index 57 https://scholar.google.com/citations?user=KXCqonwAAAAJ&hl=en&oi=ao
Paper counts:

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

Attendance: ALWAYS
name: Anthony Steed
justification: H index 59 https://scholar.google.com/citations?user=mPvFg_8AAAAJ&hl=en&oi=ao
Paper counts:

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

Attendance: ALWAYS
name: Ming Lin
justification: H index 89 Top 20 h-index in Google Scholar for Virtual
https://scholar.google.com/citations?hl=en&user=ugFNit4AAAAJ
Paper counts:

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

Attendance: OFTEN
name: Greg Welch
justification: H Index 47 https://scholar.google.com/citations?user=9rHaWCYAAAAJ&hl=en&oi=ao
Paper counts:

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

Attendance: ALWAYS
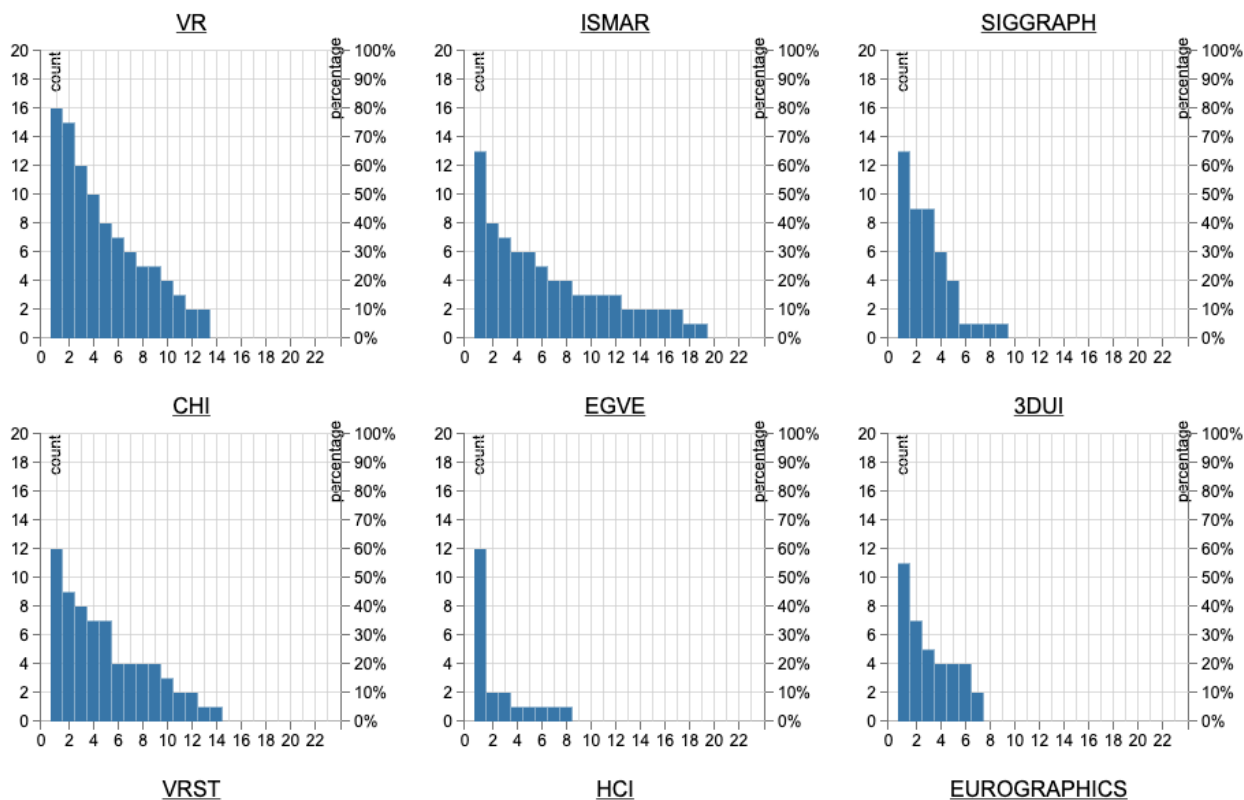
Where People Publish

Top (Senior) Program Committee Members

Generated Report Name: conf_submissions_top_spc/higherrank1746_top_spc.csv
WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/higherrank1746_spc_report.txt
Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1746_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.

VR ISMAR SIGGRAPH

CHI EGVE 3DUI

VRST HCI EUROGRAPHICS

Reference item: \\ 1. IEEE Conference on Virtual Reality and 3D User Interfaces (VR)

This conference was published at 144 times by 16 of 20 experts in the last 22 years.

The experts that publish at this conference are: Michael Wimmer(4), Joaquim A. Jorge(4), Mark Billinghurst(19), Michael Jenkin(6), Robert W. Lindeman(17), Daisuke Iwai(7), Ronan Boulic(6), Hideo Saito(8), Gerd Bruder(21), Daniel R. Mestre(2), Rachel McDonnell(1), Tim Dwyer(2), Peter Willemsen(3), Gun A. Lee(6), Steven K. Feiner(11), Evan A. Suma(35)

In 1998, there were 3 publications by 2 experts: Mark Billinghurst, Michael Jenkin
In 1999, there were 2 publications by 2 experts: Michael Jenkin, Robert W. Lindeman
In 2000, there were 1 publications by 1 experts: Michael Jenkin
In 2001, there were 3 publications by 3 experts: Mark Billinghurst, Michael Jenkin, Robert W. Lindeman
In 2002, there were 4 publications by 3 experts: Peter Willemsen, Mark Billinghurst, Michael Jenkin
In 2003, there were 3 publications by 3 experts: Peter Willemsen, Steven K. Feiner, Robert W. Lindeman
In 2004, there were 2 publications by 2 experts: Mark Billinghurst, Hideo Saito
In 2005, there were 4 publications by 4 experts: Peter Willemsen, Steven K. Feiner, Hideo Saito, Robert W. Lindeman
In 2006, there were 4 publications by 4 experts: Daisuke Iwai, Joaquim A. Jorge, Steven K. Feiner, Gun A. Lee
In 2007, there were 4 publications by 4 experts: Gerd Bruder, Mark Billinghurst, Evan A. Suma, Gun A. Lee
In 2008, there were 3 publications by 3 experts: Gun A. Lee, Gerd Bruder, Robert W. Lindeman
In 2009, there were 3 publications by 2 experts: Evan A. Suma, Gerd Bruder
In 2010, there were 7 publications by 6 experts: Michael Jenkin, Evan A. Suma, Daisuke Iwai, Mark Billinghurst, Hideo Saito, Gerd Bruder
In 2011, there were 9 publications by 6 experts: Gerd Bruder, Daniel R. Mestre, Robert W. Lindeman, Steven K. Feiner, Hideo Saito, Evan A. Suma
In 2012, there were 8 publications by 3 experts: Joaquim A. Jorge, Evan A. Suma, Gerd Bruder
In 2013, there were 6 publications by 5 experts: Ronan Boulic, Mark Billinghurst, Gerd Bruder, Evan A. Suma, Steven K. Feiner
In 2014, there were 5 publications by 3 experts: Evan A. Suma, Hideo Saito, Gerd Bruder
In 2015, there were 5 publications by 4 experts: Robert W. Lindeman, Evan A. Suma, Daniel R. Mestre, Gerd Bruder
In 2016, there were 7 publications by 3 experts: Evan A. Suma, Hideo Saito, Robert W. Lindeman
In 2017, there were 9 publications by 6 experts: Evan A. Suma, Daisuke Iwai, Ronan Boulic, Steven K. Feiner, Hideo Saito, Gerd Bruder

In 2018, there were 10 publications by 6 experts: Mark Billinghurst, Evan A. Suma, Robert W. Lindeman, Ronan Boulic, Steven K. Feiner, Gerd Bruder
In 2019, there were 23 publications by 10 experts: Michael Wimmer, Steven K. Feiner, Robert W. Lindeman, Daisuke Iwai, Ronan Boulic, Tim Dwyer, Gerd Bruder, Evan A. Suma, Mark Billinghurst, Gun A. Lee
In 2020, there were 19 publications by 10 experts: Michael Wimmer, Joaquim A. Jorge, Steven K. Feiner, Robert W. Lindeman, Ronan Boulic, Tim Dwyer, Gerd Bruder, Evan A. Suma, Rachel McDonnell, Mark Billinghurst

16 out of the 20 experts published at this conference in 1 or more years
15 out of the 20 experts published at this conference in 2 or more years
12 out of the 20 experts published at this conference in 3 or more years
10 out of the 20 experts published at this conference in 4 or more years
8 out of the 20 experts published at this conference in 5 or more years
7 out of the 20 experts published at this conference in 6 or more years
6 out of the 20 experts published at this conference in 7 or more years
5 out of the 20 experts published at this conference in 9 or more years
4 out of the 20 experts published at this conference in 10 or more years
3 out of the 20 experts published at this conference in 11 or more years
2 out of the 20 experts published at this conference in 13 or more years

Top People Report

Method of selection: The top researchers by H-index who had selected Virtual Reality as one of their subject areas on Google scholar.
Keyword: Virtual Reality

name	h-index	gscholar url
Louis Rosenberg	123	https://scholar.google.com/citations?hl=en&user=_6SjdyMAAAAJ
Dinesh Manocha	121	https://scholar.google.com/citations?hl=en&user=X08l_4IAAAAJ
Murat YÃijcel	95	https://scholar.google.com/citations?hl=en&user=oPJWRiUAAAAJ
Barbara Olasov Rothbaum	95	https://scholar.google.com/citations?hl=en&user=Zv6N9AcAAAAJ
Mel Slater	94	https://scholar.google.com/citations?hl=en&user=5gGSgcUAAAAJ
Paul Emmelkamp	93	https://scholar.google.com/citations?hl=en&user=W1hmitYAAAAJ
Daniel Thalmann	91	https://scholar.google.com/citations?hl=en&user=GPusciUAAAAJ
Giuseppe Riva	88	https://scholar.google.com/citations?hl=en&user=8KqSpwMAAAAJ
Ming Lin	87	https://scholar.google.com/citations?hl=en&user=ugFNit4AAAAJ
Arie Kaufman	83	https://scholar.google.com/citations?hl=en&user=fDdcWBEAAAAJ
Steven Feiner	79	https://scholar.google.com/citations?hl=en&user=PogsVkYAAAAJ
Jim Blascovich	78	https://scholar.google.com/citations?hl=en&user=bjwZXqsAAAAJ
mark Billinghurst	76	https://scholar.google.com/citations?hl=en&user=S-J_ItYAAAAJ
Jian J Zhang	76	https://scholar.google.com/citations?hl=en&user=VSeDxyYAAAAJ
Jack M. Loomis	74	https://scholar.google.com/citations?hl=en&user=VwO8_O8AAAAJ
Albert Skip Rizzo	74	https://scholar.google.com/citations?hl=en&user=cTZ7Bg8AAAAJ
Cristina Botella	71	https://scholar.google.com/citations?hl=en&user=s9B_GxwAAAAJ
Pheng Ann Heng	70	https://scholar.google.com/citations?hl=en&user=OFdytjoAAAAJ
Dieter Schmalstieg	70	https://scholar.google.com/citations?hl=en&user=xXu8K6IAAAAJ
Henry Fuchs	69	https://scholar.google.com/citations?hl=en&user=guhwcP8AAAAJ

Reference item: \\ 1. IEEE Conference on Virtual Reality and 3D User Interfaces (VR)

This conference was published at 129 times by 11 of 18 experts in the last 22 years.

The experts that publish at this conference are: Mark Billinghurst(19), Jim Blascovich(1), Pheng-Ann Heng(2), Albert Skip Rizzo(14), Henry Fuchs(16), Daniel Thalmann(6), Steven Feiner(11), Dinesh Manocha(14), Dieter Schmalstieg(29), Arie E. Kaufman(8), Mel Slater(11)

In 1998, there were 4 publications by 3 experts: Daniel Thalmann, Mark Billinghurst, Mel Slater
In 1999, there were 2 publications by 2 experts: Arie E. Kaufman, Mel Slater
In 2000, there were 5 publications by 4 experts: Daniel Thalmann, Albert Skip Rizzo, Arie E. Kaufman, Dieter Schmalstieg
In 2001, there were 3 publications by 3 experts: Mark Billinghurst, Albert Skip Rizzo, Dieter Schmalstieg
In 2002, there were 6 publications by 4 experts: Dieter Schmalstieg, Mark Billinghurst, Albert Skip Rizzo, Mel Slater
In 2003, there were 5 publications by 5 experts: Daniel Thalmann, Dieter Schmalstieg, Albert Skip Rizzo, Arie E. Kaufman, Steven Feiner
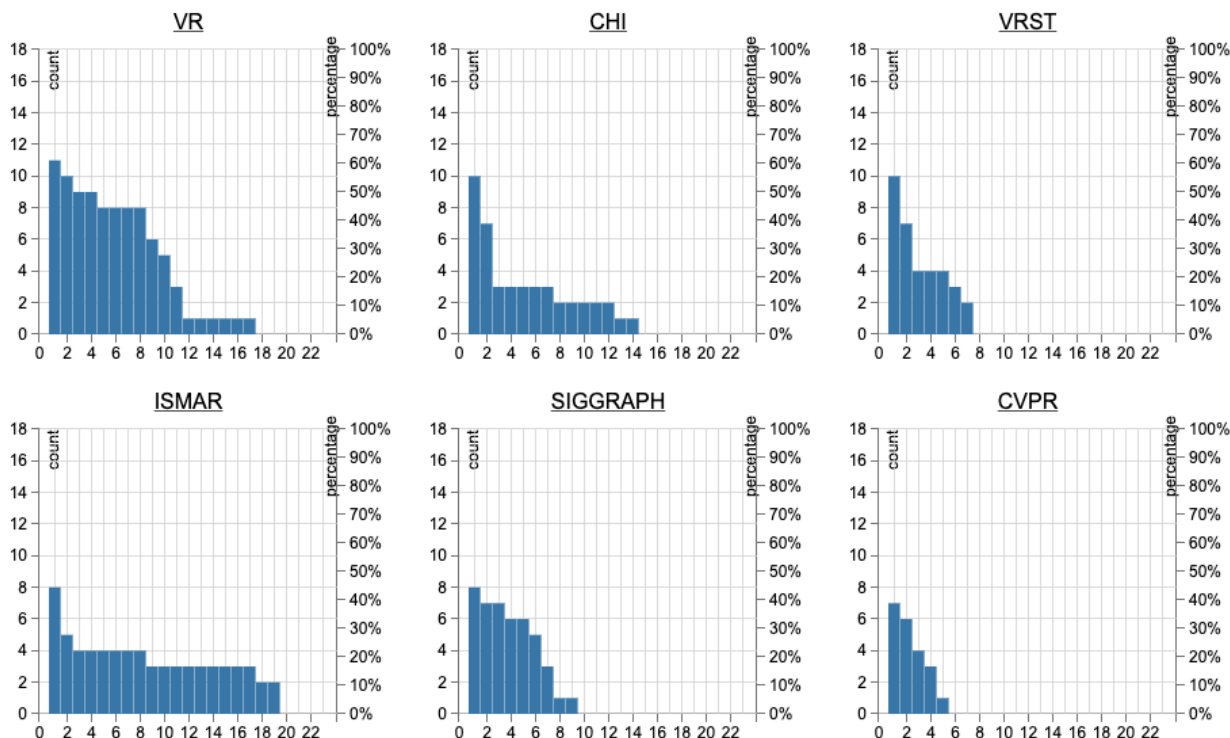In 2004, there were 5 publications by 3 experts: Daniel Thalmann, Dinesh Manocha, Mark Billinghurst

In 2005, there were 6 publications by 4 experts: Steven Feiner, Dinesh Manocha, Albert Skip Rizzo, Dieter Schmalstieg
In 2006, there were 5 publications by 4 experts: Henry Fuchs, Steven Feiner, Albert Skip Rizzo, Dieter Schmalstieg
In 2007, there were 7 publications by 5 experts: Henry Fuchs, Dinesh Manocha, Mark Billinghurst, Albert Skip Rizzo, Dieter Schmalstieg
In 2008, there were 3 publications by 2 experts: Henry Fuchs, Dieter Schmalstieg
In 2009, there were 5 publications by 4 experts: Henry Fuchs, Dinesh Manocha, Albert Skip Rizzo, Dieter Schmalstieg
In 2010, there were 4 publications by 4 experts: Mark Billinghurst, Henry Fuchs, Mel Slater, Dieter Schmalstieg
In 2011, there were 6 publications by 5 experts: Henry Fuchs, Steven Feiner, Albert Skip Rizzo, Arie E. Kaufman, Dieter Schmalstieg
In 2012, there were 9 publications by 7 experts: Pheng-Ann Heng, Jim Blascovich, Henry Fuchs, Albert Skip Rizzo, Dinesh Manocha, Arie E. Kaufman, Dieter Schmalstieg
In 2013, there were 9 publications by 6 experts: Dieter Schmalstieg, Henry Fuchs, Steven Feiner, Mark Billinghurst, Arie E. Kaufman, Mel Slater
In 2014, there were 8 publications by 4 experts: Henry Fuchs, Dinesh Manocha, Mel Slater, Dieter Schmalstieg
In 2015, there were 6 publications by 3 experts: Dieter Schmalstieg, Arie E. Kaufman, Mel Slater
In 2016, there were 4 publications by 3 experts: Henry Fuchs, Dinesh Manocha, Dieter Schmalstieg
In 2017, there were 4 publications by 4 experts: Henry Fuchs, Steven Feiner, Arie E. Kaufman, Dieter Schmalstieg
In 2018, there were 6 publications by 5 experts: Pheng-Ann Heng, Steven Feiner, Dinesh Manocha, Mark Billinghurst, Albert Skip Rizzo
In 2019, there were 10 publications by 3 experts: Steven Feiner, Dinesh Manocha, Mark Billinghurst
In 2020, there were 7 publications by 4 experts: Steven Feiner, Dinesh Manocha, Mark Billinghurst, Mel Slater

11 out of the 18 experts published at this conference in 1 or more years
10 out of the 18 experts published at this conference in 2 or more years
9 out of the 18 experts published at this conference in 4 or more years
8 out of the 18 experts published at this conference in 8 or more years
6 out of the 18 experts published at this conference in 9 or more years
5 out of the 18 experts published at this conference in 10 or more years
3 out of the 18 experts published at this conference in 11 or more years
1 out of the 18 experts published at this conference in 17 or more years
  WPP Report: http://portal.core.edu.au/core/media/conf_rank_report/higherrank1746_top_people_report.txt
Graphs: http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1746_top_people_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.

Other Information

Comparator Comparison

Comparator

IEEE/ACM International Symposium on Mixed and Augmented Reality

Explanation as to why conference is superior to comparator:
IEEE VR is the first preferred venue in WPP for top people in VR to publish, while IEEE ISMAR is rated 3rd.
Interestingly IEEE VR was also rated first in WPP for publication venue for the ISMAR senior program committee (which was rated second)
The h5 index of IEEE VR is 28, while the h5 index of IEEE ISMAR is 20, although both publish into the IEEE TVCG journal (h5 index of 70).
Link to comparator report:
`http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1746_1099.pdf`

Comparator

ACM SIG International Conference on Computer Graphics and Interactive Techniques

Explanation as to why conference is superior to comparator:
IEEE VR is the first preferred venue in WPP for top people in VR to publish, while ACM SIGGRAPH is rated 4th. Even for the IEEE VR senior program committee in the WPP output they chose to publish in IEEE VR first compared to ACM Siggraph (3rd).
ACM SIGGRAPH publishes in ACM TOG (h5 index of 85), but the best papers of IEEE VR are still published in IEEE TVCG (h5 index of 70).
ACM SIGGRAPH traditionally publishes few VR technical papers, and so is a less significant venue for VR publications (as shown by the WPP outputs).
Link to comparator report:
`http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1746_1101.pdf`

Other Relvant Info

Other relevant information: IEEE ISMAR is already rated an A* conference, but as can be seen from these results the senior people in VR and also the ISMAR Senior Program Committee members both publish more in IEEE VR. IEEE VR also typically has a lower acceptance rate (19-22%) compared to that of IEEE ISMAR (25-31%). So there is strong justification for raising the CORE ranking of IEEE VR from A to A*.

Attachments

N/A

Proposers

First name: Ed
Last name: Swan
Affiliation: Mississippi State University
Email: swan@acm.org

First name: Mark
Last name: Billinghurst
Affiliation: University of Auckland
Email: mark.billinghurst@auckland.ac.nz

Submitted By

Name: Billinghurst Mark
Email: mark.billinghurst@gmail.com