Submission Data for 2020-2021 CORE conference Ranking process
IEEE International Joint Conference on Neural Networks

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Conference Details

Conference

Title: IEEE International Joint Conference on Neural Networks
Acronym : IJCNN
Rank: A

Requested Rank

Rank: A*

Recent Years

Proceedings Publishing Style

Proceedings Publishing: other
Link to most recent proceedings: `https://ieeexplore.ieee.org/xpl/conhome/9200848/proceeding`
Further details: IJCNN Proceedings are published by IEEE. All proceedings are available via IEEE Explore.
Proceedings contain both oral papers and poster papers.
Please note that acceptance rate in Section 2 is given for oral and poster papers. This form didn't allow to include only oral papers acceptance rates.
Acceptance rate for oral papers in 2020 was: 30%
Acceptance rate for oral papers in 2019 was: 36%

Most Recent Years

Most Recent Year

Year: 2019
URL: `https://www.ijcnn.org/assets/docs/ijcnn2019-program-Jun29-largefont-v2(1).pdf`
Location: Budapest, Hungary
Papers submitted: 1532
Papers published: 801
Acceptance rate: 52
Source for numbers: `https://www.ijcnn.org/assets/docs/ijcnn2019-program-Jun29-largefont-v2(1).pdf`

General Chairs

Name: Chrisina Jayne
Affiliation: Oxford Brooks University, Oxford UK
Gender: F
H Index: 15
GScholar url: `https://scholar.google.co.uk/citations?user=pDo5nIIAAAAJ&hl=en&oi=ao`
DBLP url: `https://dblp.org/pid/04/9946.html`

Program Chairs

Name: Plamen P Angelov
Affiliation: Lancaster University, UK
Gender: M
H Index: 53
GScholar url: `https://scholar.google.com/citations?user=CCW8PwkAAAAJ&hl=en`
DBLP url: `https://dblp.org/pid/16/6228.html`

Second Most Recent Year

Year: 2018
URL: http://www.ecomp.poli.br/~wcci2018/
Location: Rio de Janeiro, Brazil
Papers submitted: 1163
Papers published: 764
Acceptance rate: 66
Source for numbers: https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8489251

General Chairs

Name: Teresa B. Ludermir
Affiliation: Universidade Federal de Pernambuco, Brazil
Gender: F
H Index: 34
GScholar url: https://scholar.google.com/citations?user=w-tKJOwAAAAJ&hl=en
DBLP url: https://dblp.org/pid/00/6226.html

Program Chairs

Name: Jose Principe
Affiliation: University of Florida, USA
Gender: M
H Index: 87
GScholar url: https://scholar.google.com/citations?user=GkpvilQAAAAJ&hl=en
DBLP url: https://dblp.org/pid/p/JoseCPrincipe.html

Third Most Recent Year

Year: 2017
URL: https://ewh.ieee.org/conf/ijcnn/2017/ijcnn-2017.pdf
Location: Anchorage, USA
Papers submitted: 933
Papers published: 621
Acceptance rate: 67
Source for numbers: https://ewh.ieee.org/conf/ijcnn/2017/ijcnn-2017.pdf

General Chairs

Name: Yoonsuck Choe
Affiliation: Texas A&M University, USA
Gender: M
H Index: 22
GScholar url: https://scholar.google.com/citations?user=nFb_T4wAAAAJ&hl=en
DBLP url: https://dblp.org/pid/81/4331.html

Program Chairs

Name: Barbara Hammer
Affiliation: Bielefeld University, Germany
Gender: F
H Index: 42
GScholar url: https://scholar.google.com/citations?user=1d3OxaUAAAAJ&hl=en
DBLP url: https://dblp.org/pid/h/BarbaraHammer.html

Policies

Chair Selection: Chairs are selected based on their research track records and international professional standing in the areas of neural networks/computational intelligence.
Policy name: IEEE code of ethics
Policy url: https://www.ieee.org/about/corporate/governance/p7-8.html

(Senior) Program Committee

Link to (s)pc: https://www.ijcnn.org/assets/docs/ijcnn2019-program-Jun29-largefont-v2(1).pdf
File: http://portal.core.edu.au/core/media/conf_submissions_spc_file/ijcnn2019pc_OOEqPWl.txt
H-index plot: http://portal.core.edu.au/core/media/conf_submissions_hindex_plots/hindex_buckets_1416.png
Information Contained within this graph is derived using the Elsevier Scopus Database 2021.
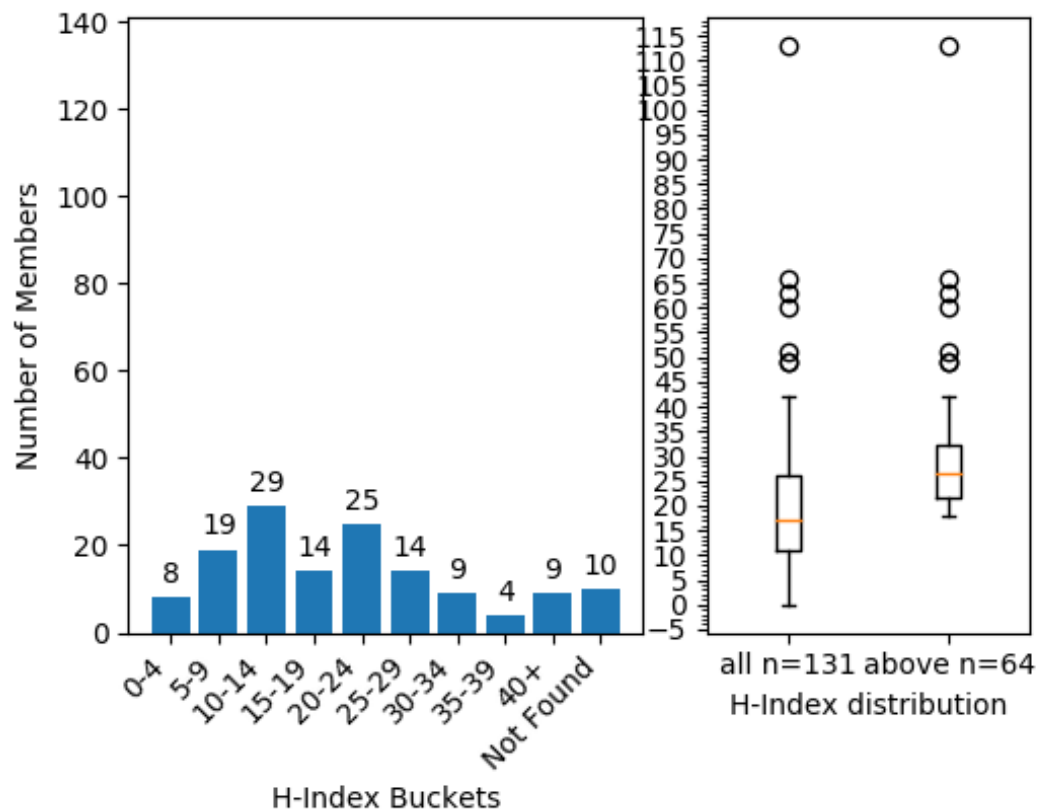
Data and Metrics

Google Scholar Metrics

Sub-category url: `https://scholar.google.com.au/citations?view_op=top_venues&hl=en&vq=eng_artificialintelligence`
Position in sub-category: 20+
Image of top 20: `http://portal.core.edu.au/core/media/changes_h5/higherrank1416_gscholar_minh5.png`

h5-index for this conference: 46

ACM Metrics

Not Sponsored by ACM

Aminer Rank

Aminer rank: 16
Aminer name: International Joint Conference on Neural Networks
Acronym / shortname: IJCNN
h-5 index: 46
CCF level: C
THU level: B
Top Aminer Cites: http://portal.core.edu.au/core/media/conf_submissions_citations/higherrank1416_aminer_top_cite.pdf

Other Rankings

URL: https://www.scimagojr.com/journalrank.php?category=1702&area=1700&type=p&order=h&ord=desc&year=2019
Description: h-index 66 Ranked at number 4 in SCimago
Rank: 4
URL: https://www.guide2research.com/conference/ijcnn-2019-2
Description: Listed as TOP conference under Conference ranking and metrics.
Rank: Top conference
Conferences in area: IJCNN NIPS

Top People Publishing Here

name: Professor Tom Gedeon
justification: ARC College of Experts Citations: 8440, h-index=45; i10-index= 160 Professor of Computer Science at Australian National University Web: https://cecs.anu.edu.au/people/tom-gedeon
Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
2	5	0	0	0

Attendance: OFTEN
name: Professor Jacek Zurada
justification: Fellow IEEE Citations=14634; h-index=43; i10-index= 146
Professor of Electrical and Computer Engineering at University of Louisville, USA Web: `http://ci.louisville.edu/zurada/`
He was publishing regularly some time ago, now he publishes less but almost always attends as invited speakers/organiser.
Paper counts:

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

Attendance: OFTEN
name: Professor Nikola Kasabov
justification: Fellow of the Royal Society of New Zealand; Fellow of the Institute of Electrical and Electronic Engineers (IEEE); Citations=17108; h-index=60; i10-index= 278;
Professor at Auckland Univ. of Technology, New Zealand
Web: `https://www.aut.ac.nz/research/professors-listing/nikola-kasabov`
Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	1	2	0	3

Attendance: ALWAYS
name: Professor Paul J. Werbos
justification: Paul is one of the pioneers of neural network field. He is known for discovery of Backpropagation algorithm which is basic algorithm for neural networks/deep learning. He has won many awards such as IEEE Neural Network Pioneer Award (1995).
Now Paul publishes less but almost always attends IJCNN as an invited/guest speaker or in some other roles. Web: `https://en.wikipedia.org/wiki/Paul_Werbos`
Paper counts:

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

Attendance: ALWAYS
name: Professor Chin-Teng Lin
justification: Fellow IEEE; Citations= 24640, h-index=70;i10-index=313;
Professor at University of Technology Sydney.
Web: `https://profiles.uts.edu.au/chin-teng.lin`
Paper counts:

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

Attendance: ALWAYS
name: Professor Robert Kozma
justification: Fellow IEEE; Fellow INNS; Professor at University of Memphis, USA
web: `https://en.wikipedia.org/wiki/Robert_Kozma`
Paper counts:

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

Attendance: ALWAYS
name: Professor Hussein A. Abbass
justification: Fellow IEEE; Citations: 9259; h-index=45;i10-index=168;
Professor at University of New South Wales, Canberra, Australia Web: `http://www.husseinabbass.net/`
Paper counts:

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

Attendance: OFTEN
name: Professor Junbin Gao
justification: Citations=5477; h-index=37;i10-index= 114;
Professor at University of Sydney Web:
`https://www.sydney.edu.au/business/about/our-people/academic-staff/junbin-gao.html`
Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
3	1	2	1	5

Attendance: ALWAYS
name: Professor Xin Yao
justification: Fellow IEEE; Citations=53789; h-index= 103; i10-index=534;
2020 IEEE Frank Rosenblatt Award; Web of Science Highly Cited Award;
Professor at Birmingham Uni (UK) and SUSTech (China) web: `https://www.cs.bham.ac.uk/~xin/` web:
`https://faculty.sustech.edu.cn/xiny/en/`
Paper counts:

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

Attendance: ALWAYS

name: Professor Marimuthu Palaniswami

justification: Fellow IEEE; Citations=26117; h-index=61; i10-index=264

Professor of Electrical Engineering at Melbourne Uni

Web: `https://people.eng.unimelb.edu.au/palani/`

Paper counts:

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

Attendance: SOMETIMES

Where People Publish

Top (Senior) Program Committee Members

Generated Report Name: conf_submissions_top_spc/higherrank1416_top_spc.csv

WPP Report: `http://portal.core.edu.au/core/media/conf_rank_report/higherrank1416_spc_report.txt`

Graphs: `http://portal.core.edu.au/core/media/conf_rank_graphs/higherrank1416_spc_graph.png`
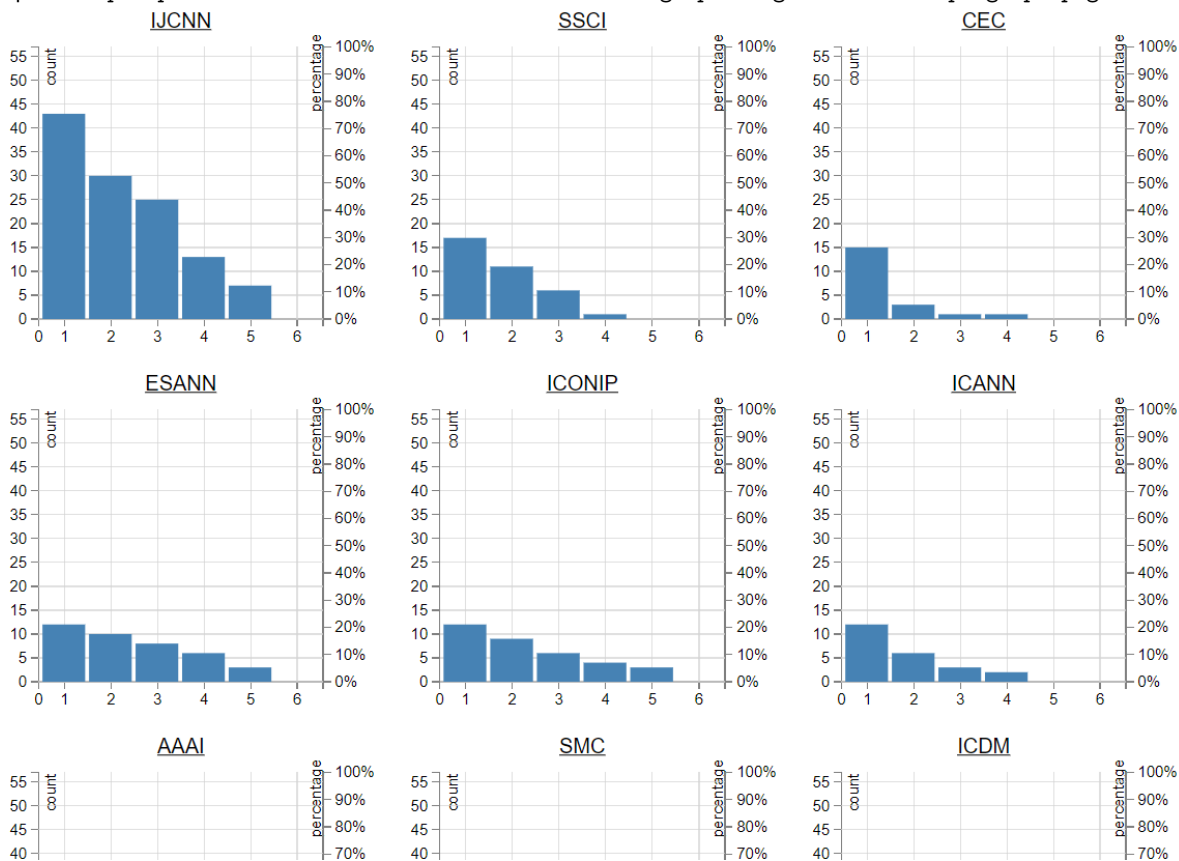

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Reference item: \\ Ranking order is first by number of the above people publishing in the venue, then by number of
their publications, then by number of years with at least one publication from these people.
1. IEEE International Joint Conference on Neural Network (IJCNN)

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This conference was published at 219 times by 43 of 57 experts in the last 5 years.

The experts that publish at this conference are: Luca Oneto(6), Roberto Tagliaferri(2), Carlo Sansone(1), Ajith
Abraham(1), Erol Gelenbe(4), Angelo Cangelosi(6), Leonid I. Perlovsky(3), Plamen Parvanov Angelov(10), Jinde
Cao(2), Shirui Pan(9), Amir Hussain(2), Lipo Wang(1), Alessandro E. P. Villa(3), Bernardete Ribeiro(8), Manuel
Roveri(4), Massimo Panella(4), Paolo Gastaldo(1), Jennie Si(2), Minho Lee(7), Teresa Bernarda Ludermir(8),
Saibal Mukhopadhyay(6), Stefan Wermter(24), Bart Kosko(2), Vitoantonio Bevilacqua(6), Akira Hirose(3), Wei-Chang
Yeh(6), Vernica Boln-Canedo(3), Donald C. Wunsch(12), Alfredo Vellido(1), Alessio Micheli(2), Ali A. Minai(7),
Alessandro Sperduti(5), Paulo J. G. Lisboa(2), Stefano Squartini(13), Jan Faigl(3), Robi Polikar(6), Jos David
Martn-Guerrero(1), Johan A. K. Suykens(9), Haibo He(19), Kaizhu Huang(2), Francesco Carlo Morabito(5), Elena
Marchiori(1), Pter rdi(1)
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In 2015, there were 50 publications by 25 experts: Luca Oneto, Roberto Tagliaferri, Massimo Panella, Vernica Boln-Canedo, Donald C. Wunsch, Alfredo Vellido, Ali A. Minai, Leonid I. Perlovsky, Plamen Parvanov Angelov, Ajith Abraham, Alessandro E. P. Villa, Bernardete Ribeiro, Stefano Squartini, Wei-Chang Yeh, Paolo Gastaldo, Robi Polikar, Jennie Si, Minho Lee, Teresa Bernarda Ludermir, Johan A. K. Suykens, Stefan Wermter, Haibo He, Kaizhu Huang, Francesco Carlo Morabito, Vitoantonio Bevilacqua

In 2016, there were 39 publications by 22 experts: Stefan Wermter, Wei-Chang Yeh, Donald C. Wunsch, Erol Gelenbe, Ali A. Minai, Leonid I. Perlovsky, Plamen Parvanov Angelov, Jinde Cao, Shirui Pan, Alessandro E. P. Villa, Bernardete Ribeiro, Manuel Roveri, Stefano Squartini, Massimo Panella, Robi Polikar, Minho Lee, Saibal Mukhopadhyay, Johan A. K. Suykens, Angelo Cangelosi, Haibo He, Francesco Carlo Morabito, Akira Hirose

In 2017, there were 43 publications by 25 experts: Luca Oneto, Shirui Pan, Vernica Boln-Canedo, Paulo J. G. Lisboa, Donald C. Wunsch, Erol Gelenbe, Ali A. Minai, Angelo Cangelosi, Leonid I. Perlovsky, Alessandro Sperduti, Plamen Parvanov Angelov, Lipo Wang, Manuel Roveri, Stefano Squartini, Jan Faigl, Robi Polikar, Minho Lee, Saibal Mukhopadhyay, Johan A. K. Suykens, Stefan Wermter, Haibo He, Francesco Carlo Morabito, Bart Kosko, Vitoantonio Bevilacqua, Pter rdi

In 2018, there were 45 publications by 18 experts: Bernardete Ribeiro, Manuel Roveri, Stefano Squartini, Massimo Panella, Robi Polikar, Jennie Si, Minho Lee, Donald C. Wunsch, Teresa Bernarda Ludermir, Alessio Micheli, Stefan Wermter, Haibo He, Angelo Cangelosi, Alessandro Sperduti, Shirui Pan, Ali A. Minai, Vitoantonio Bevilacqua, Akira Hirose

In 2019, there were 42 publications by 28 experts: Luca Oneto, Vitoantonio Bevilacqua, Wei-Chang Yeh, Carlo Sansone, Alessandro Sperduti, Donald C. Wunsch, Jos David Martn-Guerrero, Stefano Squartini, Plamen Parvanov Angelov, Angelo Cangelosi, Manuel Roveri, Jinde Cao, Shirui Pan, Erol Gelenbe, Amir Hussain, Alessandro E. P. Villa, Paulo J. G. Lisboa, Ali A. Minai, Robi Polikar, Minho Lee, Teresa Bernarda Ludermir, Saibal Mukhopadhyay, Stefan Wermter, Haibo He, Kaizhu Huang, Francesco Carlo Morabito, Elena Marchiori, Akira Hirose

43 out of the 57 experts published at this conference in 1 or more years
30 out of the 57 experts published at this conference in 2 or more years
25 out of the 57 experts published at this conference in 3 or more years
13 out of the 57 experts published at this conference in 4 or more years
7 out of the 57 experts published at this conference in 5 or more years

Top People Report

Not providing Top People Report

Other Information

Comparator Comparison

Comparator

Advances in Neural Information Processing Systems (was NIPS)

Explanation as to why conference is superior to comparator:
H5 index of NIPS is higher than H5 index of IJCNN. However, we believe H5 index is not important quality measure for conferences. NIPS has high H5 because it has open access proceedings which has nothing to do with quality of conference. The quality of conference should be measured based on measures such as quality of review process, quality of program committee, quality of keynote/plenary speakers, quality of organising committee, quality of professional bodies organising the conference, quality of participants, quality of publication (e.g. proceedings), quality of submissions, quality of venues, etc. The comparison of IJCNN with NIPS based on above criteria shows that the overall quality of IJCNN is higher than NIPS. Detailed comparison is shown below:
1.Quality of review process for IJCNN seems better than NIPS. According to available information for NIPS, NIPS authors are invited to become program committee members and reviewers. IJCNN doesn't invite authors to PC instead PC is formed before the conference and consists of well-known neural network researchers.
2.Quality of submissions for iJCNN seems better than NIPS. NIPS receives huge number of multiple submissions (e.g. information available suggests that many authors submit more than 10 papers and in 2019, there were 75 papers from one single institute). No such thing is in IJCNN.
3.Selecting just few papers for oral presentations at NIPS out of 6000 papers suggests low quality submissions and multiple submissions. In 2019, many even junior researchers have multiple papers accepted (e.g. 12 papers by one junior researcher) and 5 institutes have 375 papers (each 75 papers, all 5 are companies). IJCNN never had so many papers from one institute or from one author. IJCNN invites pioneers as keynote speakers and high quality of normal papers are selected based on 3-5 reviewers. The high-quality oral presentations from large number of institutes/authors and keynote speeches by pioneers in the field make IJCNN a better-quality conference.
4.Quality of NIPS program and organising committees seems lower than the quality of IJCNN program and organising committees because NIPS committees consist of mainly people from companies and mainly junior researchers from USA and Canada. IJCNN committees consist of top neural network researchers from academia and from around the world.

5.IJCNN is run by top international professional organisations - INNS and IEEE where NIPS is run by very small private board headed by same person for last 15-20 years.

6.IJCNN is held around the world and attracts diverse researchers from many universities/countries. NIPS seems more like a local conference mainly for US companies. NIPS authors/papers mainly come from 4-5 local companies and few universities. It is being held in Canada/USA.

7.Many pioneers of neural networks are involved in IJCNN organising/program committees. Many IJCNN keynote/plenary speakers are pioneers of neural networks. No such thing is in NIPS.

8.IJCNN publishes acceptance rates (combined oral and poster papers) in IEEE proceedings (very transparent process), however acceptance rates for NIPS are not available on `https://nips.cc/Conferences/2020` or in proceedings(`https://proceedings.neurips.cc/paper/2020`). Data used for NIPS in this form is from random github website. IJCNNâĂŹs combined acceptance rate is higher than NIPS but lower acceptance rate doesn't always mean better conference. IJCNN's acceptance rate for oral presentation papers in 2020 was: 30%.

Link to comparator report:
`http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1416_528.pdf`

Comparator

International Conference on Machine Learning

Explanation as to why conference is superior to comparator:
H5 index of ICML is higher than H5 index of IJCNN, however as we said in NIPS section above that this is not important quality measure for conferences. H5 index is high because of open access conference proceedings.

Please look important criteria other than H5 index as we mentioned in NIPS section. We just provide one example below which shows that IJCNN's quality is much higher than ICML's quality and overall IJCNN is a better quality conference.

ICML 2020 Keynote Speakers (see `https://icml.cc/virtual/2020/events/Invited%20Talk`): only 3 speakers and all are with extremally poor research track record/output and not well known/pioneers in machine learning.

1) Lester Mackey, 2012 PhD with poor research track record/output. No discoveries, no significant pubs, even google scholar h-index is just 25.

2) Brenna Argall, Associate professor with poor research track record/output. No discoveries, no significant pubs in any major machine learning journals or even conferences, h-index is also 25.

3) Iordanis Kerenidis, senior researcher with poor research track record/output, similar to previous two keynote researchers, even h-index is just 24.

IJCNN 2020 Keynote Speakers (see `https://wcci2020.org/speakers/`): 6 high quality pioneers in the field of machine learning/neural networks

1. Stephen Grossberg - one of the pioneers in neural networks, discoveries such as adaptive resonance theory, etc.

2. Kunihiko Fukushima - one of the pioneers of neural networks, discoveries such as Neocognitron, Deep CNN, etc.

3. Alexander N Gorban - one of the pioneers of neuroinformatics.

There are 3 more high quality speakers. Please see `https://wcci2020.org/speakers/` for all 6 ijcnn2020 keynote speakers.

Both ICML and NIPS are organised by a group of random individuals without any endorsement or review by any professional organisation in the field of Machine Learning where IJCNN is organised by well-known and prestigious professional organisations such as International Neural Network Society (INNS) and IEEE.

Link to comparator report:
`http://portal.core.edu.au/core/media/conference_submission_2020/Data_Comparator_for_1416_560.pdf`

Other Relvant Info

Other relevant information: We would like to request committee to consider following info:

1. IJCNN is one of the oldest and most prestigious international conferences in neural networks. First IJCNN was held in 1987 (`https://ewh.ieee.org/conf/ijcnn/1987/ijcnn-1987.pdf`).

2. It is attended by pioneers of neural networks and also early career researchers from around the world.

3. It always has some of the top neural network people in its organising and program committees. Many keynote speeches are given by pioneers of neural networks.

4. The overall quality of submitted papers is very high and very few multiple submissions. This is one reason why acceptance rate cannot be 20% like in some other conferences. The acceptance rate for IJCNNâĂŹs oral presentation papers was 30% in 2020.

5. IJCNN papers are reviewed by 3-5 expert reviewers/paper and PC members.

6. IJCNN is attended by 100s of university and industry researchers from around the world NOT just few researchers with multiple papers from few organisations/countries.

7. It is a flagship conference of well-known International Neural Network Society (INNS) and IEEE Computational Intelligence Society. If committee requires any further info, please contact Brijesh/Marley.

Attachments

N/A

Proposers

First name: Brijesh
Last name: Verma
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Email: b.verma.qld@gmail.com

First name: Marley
Last name: Vellasco
Affiliation: IEEE Computational Intelligence Society
Email:

Submitted By

Name: Verma Brijesh
Email: b.verma.qld@gmail.com