

# Evaluation/Ranking of Journals, Researchers, and Institutions

Milan Jirásek and Jan Zeman

Department of Mechanics  
Faculty of Civil Engineering  
Czech Technical University in Prague

7 April 2021



# Introductory Quiz

## Impact Factor

Task 4: Determine the most recent impact factor of the fictitious Journal of Good Research, using the tabulated citation data.

*Based on its impact factor, would you expect this journal to be good or poor?*

year	published papers	citations to these papers in			
		2017	2018	2019	2020
2017	20	5	30	44	35
2018	25	-	4	26	28
2019	15	-	-	10	22
2020	20	-	-	-	12

Task 5: Estimate the impact factor of the most cited international journal. *Can you guess the name of this journal or the research area that it covers?*

## Introductory Quiz

Please think about the questions and submit your answers using the form at <https://forms.office.com/r/r5b9yJDbz7>.

# Introductory Quiz

## Correct Answers

- Task 1: The h-index of John Smith is equal to 3.
- Task 2: *To be discussed later.*
- Task 3: *To be discussed later.*
- Task 4: The most recent impact factor that can be extracted from these data is the so-called 2018 impact factor. Its value is 1.25. The standing of a journal with this impact factor depends on its field, but it is probably neither a top journal, nor a really poor one.
- Task 5: The impact factor of the most cited journal is higher than 200. It is an oncology journal. *Further details will be discussed later.*

# Outline

- 1 Ranking of Journals
  - Web of Science, impact factor
  - Scopus, Scopus journal metrics
  - Predatory journals and misleading metrics
- 2 Evaluation of Researchers
  - Publications
  - Citations, h-index
- 3 Evaluation of Czech Research Organizations
- 4 College and University Rankings

# Plan

- 1 Ranking of Journals
  - Web of Science, impact factor
  - Scopus, Scopus journal metrics
  - Predatory journals and misleading metrics
- 2 Evaluation of Researchers
  - Publications
  - Citations, h-index
- 3 Evaluation of Czech Research Organizations
- 4 College and University Rankings







## Impact Factor

Measure of the impact of a certain journal, based on citations to papers published in that journal:

$$IF(J, Y) = \frac{c(J, Y)}{p(J, Y)}$$

$IF(J, Y)$ ... impact factor of journal  $J$  in year  $Y$

$p(J, Y)$ ... number of papers published in  $J$  in years  $Y - 1$  and  $Y - 2$

$c(J, Y)$ ... cites in year  $Y$  to papers published in  $J$  in  $Y - 1$  and  $Y - 2$

Impact Factors can be found in Journal Citation Reports (JCR).

## Other Measures

5-year impact factor, immediacy index, cited half-life, citing half-life, eigenfactor score, **article influence score**, ...











# Scopus, Scopus Journal Metrics

## Scopus

Bibliographic database owned by Elsevier, covering journals, proceedings and patents.

## Scopus Journal Metrics

- CiteScore:  
similar to IF but taken over previous 3 years (instead of 2)
- SCImago Journal Rank (SJR):  
accounts for number of citations and prestige of the citing sources
- Source Normalized Impact per Paper (SNIP):  
uses weighting based on the total number of citations in a given field



## Comparison of Journal Metrics

journal	IF	AIS	CS	SJR	SNIP
Chemical Reviews	52.76	16.48	100.5	20.85	12.83
Int. J. Solids Structures	3.21	0.87	5.8	1.30	1.58
J. of Algebraic Geometry	1.59	2.77	2.1	2.49	2.08
Acta Polytechnica			1.3	0.21	0.59

*(2019 Journal Citation Reports, 2019 Scopus Journal Metrics)*

*IF = Impact Factor, AIS = Article Influence Score, CS = CiteScore, SJR = SCImago Journal Rank, SNIP = Source Normalized Impact per Paper*

The number of cites of a given paper is usually higher in Scopus than in Web of Science (WoS).

At CTU, Scopus used to be perceived as less prestigious than WoS, but this is no longer the case.

The national research evaluation system as well as the CTU promotion rules consider Scopus and WoS as equally relevant.









IOSR Journals try its best effort for selecting good quality paper to achieve high impact factor.

IOSR Journals published paper cited highly due to open access publication era and its worldwide indexing.

IOSR Journals paper citation is increasing day by day. So it is very difficult to calculate exact citation report. But approx citation report is as follows (it may be vary because it depends on citation of papers):

- 1. IOSR Journal of Computer Engineering : 76.5 %**
- 2. IOSR Journal of Electrical and Electronics Engineering: 61.3 %**
- 3. IOSR Journal of Mechanical and Civil Engineering: 71.2 %**
- 4. IOSR Journal of Electronics and Communication Engineering: 65.3 %**
- 5. IOSR Journal of VLSI and Signal Processing: 61.7 %**
- 6. IOSR Journal of Environmental Science, toxicology and Food Technology : 51.1 %**
- 7. IOSR Journal of Humanities and Social Science: 79.6 %**
- 8. IOSR Journal of Pharmacy and Biological Science: 73.5 %**
- 9. IOSR Journal of Business and Management: 75.8 %**
- 10. IOSR Journal of Dental and Medical Science: 83.4%**

ISSN:2454-4116



# International Journal of New Technology and Research Impact Factor 2.254

(An ISO 9001:2008 Certified Online Journal)

India | Germany | France | Japan

- [HOME](#)
- [ABOUT IJNTR](#)
- [CALL FOR PAPER](#)
- [FOR AUTHORS](#)
- [EDITORIAL BOARD](#)
- [SUBMIT ARTICLE](#)
- [CONTACT US](#)



- About IJNTR**
- Call for Paper
- For Authors
- Payment Option

- [Call for Paper](#)
- [Payment Option](#)
- [Submit Article](#)

**News & Updates**

Impact Factor 4.09 (SIF) Impact Factor 1.387 (PIF)

Impact Factor 4.09 (SIF)

Impact Factor 1.387 (PIF)



ICV 54.72



Sparc Factor 3.953

~~ICV 2016-~~ 78.20 NEW

**Key Dates****Volume 5 Issue  
9****Last Date of Paper  
Submission  
October 09, 2019****Review Report (Faster  
Online Peer Review)  
Within 3-4 Days  
after Submission****Publication (online)  
Within 1-2 Days  
After Registration****Indexing and  
Certificate  
Delivery  
After 7 Days of  
Last Date of  
Publication**

Review within 3–4 days after submission??  
Can experts really do that on a regular basis?



## Bad Practices of Predatory Journals

- Falsely claiming to provide peer review and meaningful editorial oversight of submissions
- Lying about affiliations with prestigious scholarly/scientific organizations
- Claiming affiliation with a non-existent organization
- Naming reputable scholars to editorial boards without their permission (and refusing to remove them)
- Falsely claiming to have a high Journal Impact Factor
- Hiding information about article processing charges until after the author has completed submission
- Falsely claiming to be included in prestigious indexes

# Beall's List

## Scholarly Open Access

- Web server devoted to critical analysis of scholarly open access publishing.
- Started in 2008 by Jeffrey Beall, a librarian at the University of Colorado Denver.
- Used to provide a (very long) list of suspicious publishers and another list of suspicious standalone journals.
- In December 2016 closed due to pressure of certain publishers (e.g., OMICS Publishing Group threatened to sue Beall with a \$1 billion lawsuit for defaming the company)

# Beall's List, December 2016

## Scholarly Open Access

Critical analysis of scholarly open-access publishing

[Home](#)[About the Author](#)[Disclaimer](#)[LIST OF PUBLISHERS](#)[LIST OF STANDALONE JOURNALS](#)[Other pages](#)

### LIST OF PUBLISHERS

#### Beall's List:

#### Potential, possible, or probable predatory scholarly open-access publishers

This is a list of questionable, scholarly open-access publishers. We recommend that scholars read the available reviews, assessments and descriptions provided here, and then decide for themselves whether they want to submit articles, serve as editors or on editorial boards. In a few cases, non-open access publishers whose practices match those of predatory publishers have been added to the list as well. The criteria for determining predatory publishers are [here](#).

We hope that tenure and promotion committees can also decide for themselves how importantly or not to rate articles published in these journals in the context of their own institutional standards and/or geocultural locus. We emphasize that journal publishers and journals change in their business and editorial practices over time. This list is kept up-to-date to the best extent possible but may not reflect sudden, unreported, or unknown enhancements.

- o [1088 Email Press](#)
- o [2425 Publishers](#)
- o [The 5th Publisher](#)

#### RECENT POSTS

- o [OMICS International Continues Violating Canada](#)
- o [Three Open-Access Publishers from Turkey](#)
- o [Hyderabad, India — City of Corruption](#)
- o [Predatory Publishers Thriving on LinkedIn](#)
- o [Spammers Invite Researchers to Pay to Advertise Their Research](#)

#### ARCHIVES

#### CATEGORIES

- o [article processing charges](#)
- o [Australia](#)
- o [Mandates](#)
- o [Misleading metrics](#)
- o [Open-access policy](#)
- o [Open-access sanctions](#)
- o [Plagiarism](#)

# Beall's List, December 2016

- o [InternationalJournals.co.in](#)
- o [Internet Scientific Publications](#)
- o [Interscience Journals](#)
- o [Interscience Open Access Journals](#)
- o [Inter-USE](#) (International Union of Science and Education)
- o [Intuition Journals](#)
- o [Invention Journals](#)
- o [IORE International](#)
- o [IOS Publishing](#) (Institute of Science Publishing)
- o [IOSR Journals](#) *SEE* [International Organization of Scientific Research](#)
- o [iProbe Group](#)
- o [Ira Publications](#)
- o [IRED International Journals](#)
- o [IRO Journals](#)
- o [IROSSS](#) (International Research Organization of Sciences and Social Sciences)
- o [Isaac Scientific Publishing](#)
- o [iSER Publications](#)
- o [Ishitv Technologies](#)
- o [ISISnet](#)
- o [Islamic World Network for Environmental Science and Technology](#)  
(IWNЕСТ Publisher)
- o [ISPACS](#) (International Scientific Publications and Consulting Services)



# Beall's List, December 2016

## Scholarly Open Access

Critical analysis of scholarly open-access publishing

Home

About the Author

Disclaimer

LIST OF PUBLISHERS

LIST OF STANDALONE JOURNALS

Other pages

### Bogus Organization Publishes Over 300 Open-Access Journals

July 12, 2016



Another bogus organization that wants your money.

The [International Organization of Scientific Research and Development \(IOSRD\)](#) launched recently with  $3.94 \times 10^2$  journals. It's a bogus organization that only wants to make easy money from scholarly authors. [Read the rest of this entry »](#)

You have searched the [Scholarly Open Access](#) blog archives for 'IOSR'. If you are unable to find anything in these search results, you can try one of these links.

IOSR

Search

#### RECENT POSTS

- o [OMICS International Continues Violating Canada](#)
- o [Three Open-Access Publishers from Turkey](#)
- o [Hyderabad, India — City of Corruption](#)
- o [Predatory Publishers Thriving on LinkedIn](#)
- o [Spammers Invite Researchers to Pay to Advertise Their Research](#)

# Beall's List Today

## BEALL'S LIST OF POTENTIAL PREDATORY JOURNALS AND PUBLISHERS

PUBLISHERS

STANDALONE JOURNALS

VANITY PRESS

CONTACT

OTHER

### Potential predatory scholarly open-access publishers

**Instructions:** first, find the journal's publisher – it is usually written at the bottom of the journal's webpage or in the "About" section. Then simply enter the publisher's name or its URL in the search box above. If the journal does not have a publisher use the [Standalone Journals](#) list.

All journals published by a predatory publisher are potentially predatory unless stated otherwise.

### Original list

[GO TO UPDATE](#)

This is an archived version of the Beall's list – a list of potential predatory publishers created by a librarian [Jeffrey Beall](#). We will only update links and add notes to this list.

- [1088 Email Press](#)
- [2425 Publishers](#)
- [The 5th Publisher](#)

### Important message

**We have successfully moved from Weebly to an independent server. Contact form is now working as always.**

### Useful pages

List of journals falsely claiming to be indexed by DOAJ

DOAJ: Journals added and removed

Nonrecommended medical periodicals

# Beall's List Today

## Copy of Original Beall's List With Updates

- Maintained by an anonymous scholar  
<https://beallslist.net>

### Disclaimer

I am not Jeffrey Beall. I prefer my identity to be anonymous, largely for the reasons that Beall mentioned in his recent article ([see here](#)). However, I can tell you that I am a postdoctoral researcher in one of the European universities and have hands-on experience with predatory journals.

- Some insights available at  
<http://blogs.sciencemag.org/pipeline/archives/2018/04/02/predation>

# White (Positive) Lists

## Lists of Recommended Journals

- Master Journal List by Clarivate Analytics  
(all journals indexed by Web of Science)  
<http://mjl.clarivate.com>
- **Science Citation Index** by Clarivate Analytics  
(highly selective subset of the master list)  
<http://mjl.clarivate.com/cgi-bin/jrnlst/jloptions.cgi?PC=K>
- Scopus Sources  
<https://www.scopus.com/sources>
- ??? publons.com  
<https://publons.com/journal>
- ??? Directory of Open Access Journals (DOAJ)  
<https://doaj.org>



## International Journal of Engineering and Applied Sciences

- <https://www.ijeas.org/>, ISSN 2394-3661  
Publisher: I.J.E.A.S.  
Editor-in-Chief: Neelam Sharma  
on Beall's list (predatory)
- <http://eaas-journal.org/>, ISSN 2305-8269  
Publisher: ARF Printing, Islamabad, Pakistan  
Editor-in-Chief: Unknown (55 members of editorial board)  
on Beall's list (predatory)
- <http://ijeas.akdeniz.edu.tr>, ISSN 1309-0267  
Publisher: Akdeniz University, Turkey  
Editor-in-Chief: Ömer Civalek  
on DOAJ list (meeting some minimum criteria)

# Final Recommendations

## When you select a journal:

- get the opinion of your advisor or senior colleague
- think of journals in which you have found valuable papers related to your topic
- when you aim high, go for the best:
  - journals in SCI (not expanded)
  - Q1 or even Top 10% journals in Scopus
- otherwise at least check that
  - the journal is indexed in WoS or Scopus (at least in Q3)
  - **AND** the journal is not on Beall's list



# Publications

## Be specific

In many fields, publications are the most important type of research output (of course, in applied research and development, patents, prototypes etc. are extremely important, too). **But which type of publications?** The total number does say much.

It is essential to distinguish between books, book chapters, journal papers and contributions to conference proceedings, international and national ones. In your CV and in various forms, always specify exactly what you mean.

# Publications

## Vague

She published ...

- more than 100 papers;
- 43 scientific papers in journals and proceedings;
- 27 papers in prestigious journals.

## Clear

She published ...

- 27 papers in peer reviewed (refereed) international journals;
- 63 contributions in proceedings of international conferences;
- 12 papers in journals with impact factor;
- 21 papers in journals indexed in Scopus;
- 43 publications indexed in Web of Science.

# RIV/RVVI publication types

## RVVI (rada pro výzkum, vývoj a inovace)

is the R&D Council of the Czech government.

## RIV (rejstřík informací o výsledcích)

is the Czech national information register of R&D results, covering publications, but also patents, software, prototypes, certified procedures, technologies and many other types of results. Citations are not registered in RIV.

# RIV/RVVI publication types (continued)

## Publication codes in RIV:

publication type	RIV code
book	B
book chapter	C
proceedings paper	D
journal paper	J
... in Web of Science	J <sub>imp</sub>
... in Scopus	J <sub>SC</sub>
... other	J <sub>ost</sub>

## RIV/RVVI publication types (continued)

### Precise definitions used by RIV

- $J_{imp}$ : paper in Web of Science with attributes Article, Review or Letter (NOT a Proceedings Paper)
- $J_{SC}$ : paper in Scopus with attributes Article, Review or Letter (NOT a Conference Paper)
- D: paper in WoS with attribute Proceedings Paper, or in Scopus with attributes Conference Paper or Conference Review; in any case, the paper must have at least 2 pages

The same classification is used by the Czech Science Foundation (GAČR) for evaluation of project results.

If you prepare a grant proposal, be careful. Not everything indexed in Scopus is  $J_{SC}$ .



# Habilitation and Promotion to Full Professor

The habilitation procedure at CTU includes a quantitative evaluation of the applicant's activities in five categories (publications, recognition by scientific community, teaching, grants, community service)

## Scoring of publications and citations

publication/citation type	points
books (international/national)	18/8
book chapters (international/national)	6/3
journal papers (WoS, Scopus, MathSci)	10
papers in int. conf. proceedings (A*/other)	4/2
papers in Czech journals	0 <sup>†</sup>
papers in Czech conference proceedings	0
citations in WoS, Scopus, MathSci, ERIH	3 <sup>†</sup>
Czech citations	0 <sup>†</sup>

<sup>†</sup> special rules apply to architects

# Citations, h-index

## Be specific

In many fields, citations are the most important measure of impact of a given paper, researcher, or group of researchers. **But which type of citations?**

It is important to distinguish between self-citations and citations by others (heterocitations, external citations), and to specify in which database the cited and citing works were searched for. The same applies to the h-index.

## Vague

His publications have been cited ...

- many times;
- all around the world;
- about 900 times;
- 921 times.

## Clear

His publications have 921 citations (including self-citations) in Web of Science and 1431 citations (including self-citations) in Google Scholar.

## Definition of self-citation (wide sense)

"Self-citations refer to cited references that contain an author name which matches the name of one of the authors of the citing article."

This definition is also used by the V3S web tool used at CTU (<https://v3s.cvut.cz>).

## Example

- Cited paper: P. Grassl and M. Jirásek: Meso-scale approach ...
- Citing paper: V. Lefort, G. Pijaudier-Cabot, D. Grégoire and P. Grassl: Correlation in the mesoscale ...

This is a self-citation, even for M. Jirásek who did not co-author the citing paper.

## Hirsch index (h-index)

$h$  = largest integer for which the following is true:

At least  $h$  papers of the given researcher have been cited at least  $h$  times (each).

Originally it was perceived as the  $h$ -index evaluated from all citations in Web of Science.

However, an  $h$ -index can be evaluated from any other collection of citations, provided that the precise conditions are specified.

For instance, V3S calculates the following values:

- Citations in WoS, without self-citations, no restrictions on cited work (can be a proceedings paper, book, report, ...)
- Same as above, including self-citations
- Citations in WoS, cited paper must be in SCIE/SSCI journals



## Example: Petr Krysl, University of California at San Diego

Use the checkboxes to remove individual items from this Citation Report

or restrict to items published between  and

	2016	2017	2018	2019	2020	Total	Average Citations per Year
<input type="checkbox"/>	274	307	265	215	0	4502	195.74
<input type="checkbox"/> 1. <b>Meshless methods: An overview and recent developments</b> By: Belytschko, T; Krongauz, Y; Organ, D; et al. COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING Volume: 139 Issue: 1-4 Pages: 3-47 Published: DEC 15 1996	115	113	96	87	0	2104	87.67
<input type="checkbox"/> 2. <b>Analysis of thin shells by the element-free Galerkin method</b> By: Krysl, P; Belytschko, T INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES Volume: 33 Issue: 20-22 Pages: 3057-3078 Published: AUG 1996	3	11	15	10	0	212	8.83
<input type="checkbox"/> 3. <b>Analysis of thin plates by the element-free Galerkin method</b> By: Krysl, P; Belytschko, T COMPUTATIONAL MECHANICS Volume: 17 Issue: 1-2 Pages: 26-35 Published: DEC 1995	9	10	10	7	0	194	7.76
<input type="checkbox"/> 23. <b>Fin Whale Sound Reception Mechanisms: Skull Vibration Enables Low-Frequency Hearing</b> By: Cranford, Ted W; Krysl, Petr PLOS ONE Volume: 10 Issue: 1 Article Number: UNSP e0116222 Published: JAN 29 2015	6	6	6	4	0	25	5.00
<input type="checkbox"/> 24. <b>Assumed-deformation gradient finite elements with nodal integration for nearly incompressible large deformation analysis</b> By: Broccardo, M; Micheloni, M; Krysl, P INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING Volume: 78 Issue: 9 Pages: 1113-1134 Published: MAY 28 2009	0	3	2	2	0	23	2.09

$h = 23$  (Web of Science, with self-citations)



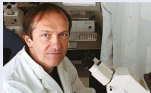






## Examples of highly cited Czech researchers (Scopus, 6 April 2021)

- Jiří Bártek, medicine/biochemistry, Karolinska Inst., Sweden  
 $h = 120$ ; 59,399 citations (Scopus, including self-citations)
- Pavel Hobza, chemistry, IOCB - Czech Academy of Sciences  
 $h = 106$ ; 44,152 citations
- Petr Widimský, medicine, Charles University  
 $h = 64$ ; 46,659 citations
- Petr Pyšek, biology, Stellenbosch University, South Africa  
 $h = 93$ ; 36,142 citations
- Zdeněk P. Bažant, engineering, Northwestern University, USA  
 $h = 97$ ; 39,430 citations
- Ivo Babuška, math & engineering, U. of Texas at Austin, USA  
 $h = 77$ ; 27,246 citations





## Most cited papers of a top researcher at CTU (V3S records)

Rank	Result ID	Result kind Result year	Result reference	Matching citation
1	202645	CLA 2012	Aad, G.; Abajyan, T.; Abbott, B.; Abdallah, J.; Khalek, S. Abdel; Augsten, K.; Holý, T.; Hubáček, Z. et al. <b>Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC</b> Physics Letters B. 2012, 716(1), 1-29. ISSN 0370-2693.	4,926 -
2	149770	CLA 2008	Aad, G.; Abat, E.; Abdallah, J.; Abdelalim, A.A.; Abdesselam, A.; Chren, D.; Horažďovský, T.; Kohout, Z. et al. <b>The ATLAS Experiment at the CERN Large Hadron Collider</b> Journal of Instrumentation. 2008, 3(508003), ISSN 1748-0221.	1,341 -
3	177380	CLA 2010	Aad, G.; Abbott, B.; Abdallah, J.; Abdelalim, A. A.; Abdesselam, A.; Holý, T.; Jakůbek, J.; Král, V. et al. <b>The ATLAS Simulation Infrastructure</b> European Physical Journal C. 2010, 70(3), 823-874. ISSN 1434-6044.	734 -
4	202149	CLA 2012	Aad, G.; Abbott, B.; Abdallah, J.; Abdelalim, A.A.; Abdesselam, A.; Hubáček, Z.; Vlasák, M.; Augsten, K. et al. <b>Combined search for the Standard Model Higgs boson using up to 4.9 fb<sup>-1</sup> of pp collision data at root s=7 TeV with the ATLAS detector at the LHC</b> Physics Letters B. 2012, 710(1), 49-66. ISSN 0370-2693.	488 -
5	201965	CLA 2012	Aad, G.; Abbott, B.; Abdallah, J.; Khalek, S.A.; Abdelalim, A.A.; Hubáček, Z.; Vlasák, M.; Augsten, K. et al. <b>Search for the Standard Model Higgs Boson in the Diphoton Decay Channel with 4.9 fb<sup>-1</sup> of pp Collision Data at root s=7 TeV with ATLAS</b> Physical Review Letters. 2012, 108(11), 1-19. ISSN 0031-9007.	483 -



## Prof. Jiří Matas, Faculty of Electrical Engineering

23	Petráček Vojtěch doc. RNDr. CSc.	251869	14102	60	11922	69	16268	51	8953	348
24	Günther Jaroslav Ing. Ph.D.	329049	14102	59	12889	78	20169	54	11125	288
25	Matas Jiří prof. Ing. Ph.D.	32913	13162	58	21509	59	22805	20	4357	42
26	Sodomka Jaromír doc. Ing. CSc.	60695	16121	58	20866	78	31908	55	17960	311
27	Sopczak André doc. Dr.	408477	35201	58	14835	76	23271	53	13060	635

1	57875	CLA 1998	Kittler, J.; Hatef, M.; Duin, R.P.W.; Matas, J. <b>On Combining Classifiers</b> IEEE Transactions on Pattern Analysis and Machine Intelligence. 1998, 20(3), 226-239. ISSN 0162-8828.	<b>2835</b> ▶
2	103426	CLA 2004	Matas, J.; Chum, O.; Urban, M.; Pajdla, T. <b>Robust wide-baseline stereo from maximally stable extremal regions</b> Image and Vision Computing. 2004, 22(10), 761-767. ISSN 0262-8856.	<b>2493</b> ▶
3	200439	CLA 2012	Kálal, Z.; Mikolajczyk, K.; Matas, J. <b>Tracking-Learning-Detection</b> IEEE Transactions on Pattern Analysis and Machine Intelligence. 2012, 34(7), 1409-1422. ISSN 0162-8828.	<b>2077</b> ▶
4	117032	CLA 2005	Mikolajczyk, K.; Tuytelaars, T.; Schmid, C.; Zisserman, A.; Matas, J.; Schaffalitzky, F.; Kadir, T.; Van Gool, L. <b>A Comparison of Affine Region Detectors</b> International Journal of Computer Vision. 2005, 65(7), 43-72. ISSN 0920-5691.	<b>1928</b> ▶
5	76764	STV 2002	Matas, J.; Chum, O.; Urban, M.; Pajdla, T. <b>Robust Wide baseline Stereo from Maximally Stable Extremal Regions</b> In: Proceedings of the British Machine Vision Conference. London: British Machine Vision Association, 2002. p. 384-393. ISBN 1-901725-19-7.	<b>1082</b> ▶
6	175503	STA 2010	Kálal, Z.; Matas, J.; Mikolajczyk, K. <b>P-N Learning: Bootstrapping Binary Classifiers by Structural Constraints</b> In: CVPR 2010: Proceedings of the 2010 IEEE Computer Society Conference on Computer Vision and Pattern Recognition. Madison: Omnipress, 2010. pp. 49-56. ISSN 1063-6919. ISBN 978-1-4244-6984-0.	<b>824</b> ▶

Scopus:  $h = 64$ ; 25,824 citations (6 April 2021)

# Plan

- 1 Ranking of Journals
  - Web of Science, impact factor
  - Scopus, Scopus journal metrics
  - Predatory journals and misleading metrics
- 2 Evaluation of Researchers
  - Publications
  - Citations, h-index
- 3 Evaluation of Czech Research Organizations
- 4 College and University Rankings

# Evaluation of Czech Research Organizations

## Before 2016

- Quantitative evaluation based on points attributed to various types of research output - papers, books, patents, software, ...
- Known as the “coffee grinder”, strongly criticized

## Methodology 2017+ (M17+)

- Approved by the Czech government on 8 February 2017
- Gradual implementation of 5 modules
- National and international expert panels
- Documents: [English], [Czech]
- Results (in Czech): <https://hodnoceni.rvvi.cz>



# Methodology 2017+

## Modules

- ① Quality of selected results
  - ① Basic research
  - ② Applied research [link]
- ② Research performance
  - ① National bibliographic results [link], WoS (AIS)
  - ② Institutions [link]
- ③ Relevance to society
- ④ Viability
- ⑤ Development strategy (including self-evaluation)

## Methodology 2017+

### Original roadmap

- 2017–2019: warm-up evaluations of modules
- 2020+: 1 full-module evaluation per 5 years

### Current state

- Modules 1 and 2 evaluated for 2017, 2018, 2019
- Modules 3-5: reports by international panels being processed
- Indicative ranking of institutions [link]
- Public universities, **Rank A** (tentative) [link]  
Czech Technical University in Prague, University of South Bohemia, Masaryk University, Charles University, Palacký University, University of Chemistry and Technology

## Module 1 — Quality of selected results

- Peer review by panels composed of Czech experts
- Criteria: contribution to knowledge or social relevance
- Grading: world-leading (1), excellent (2), very good (3), average (4), and below average (5)
- (Detailed) comments available

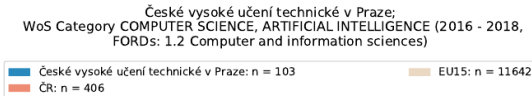
### Evaluation 2019 - Engineering and Technology

	$\Sigma$	<b>Grade</b>				
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Number of results	437	11	58	136	160	72
	100%	3%	13%	31%	37%	16%

- Grade 1: CTU 6/11
- Grade 2: CTU 22/58

## Module 2 — Research performance

- Based on Web of Science and Article Influence Score
- Supplemented with comments by expert panels
- Example:





## College and University Rankings

### Prestigious University Rankings

- Times Higher Education (THE) [[link](#)]
- QS World University Rankings [[link](#)]
- Academic Ranking of World Universities (ARWU) [[link](#)]

### Examples of most recent rankings

	<b>THE (2021)</b>	<b>QS (2021)</b>	<b>ARWU (2019)</b>
Charles Univ.	401–500	260	201–300
CTU	1,001+	432	701–800

- Controversies?