

# **Publishing of R&D Results and IS Apollo**

**TB<sup>2</sup>PC Series**

**prof. Ing. Jaroslav Koton, Ph.D.**

Vice-dean for R&D and PhDs studies

# Motivation to Publish R&D Results

- Essential selection criteria\*
  - Track record of high-quality published academic work
  - Ability to manage independent academic research and associated activities
- Supervisors
  - [Thomas Morstyn](#) (90 WoS publications, h-index 28, CNCI=2.69, %Documents in Q1/Q2: 98.18%)
  - [David Howey](#) (117 WoS publications, h-index 39, CNCI=2.45, %Documents in Q1/Q2: 95.95%)

\*[Postdoctoral Research Associate in Second-Life Battery Grid Storage](#), Postdoc position offer at University of Oxford [2024-12-05]

# Motivation to Publish R&D Results

- Required Qualifications & Skills\*
  - Strong background in electromagnetism, antennae design, RF circuit design, RFID design, RF engineering and wireless communication
  - Experience in wireless sensing, energy harvesting, magnetic resonance imaging, magnetics
- Supervisor
  - [Deblina Sarkar](#) (34 WoS publications, h-index 22, CNCI=6.60, %Documents in Q1/Q2: 95.65%)

\*[Postdoctoral Associate, Wireless Biomedical Sensing and Antennae](#), Nano-Cybernetic Biotrek, Postdoc position offer at MIT [2024-12-05]

# Motivation to Publish R&D Results

- Create your own record of R&D results to...
  - Advertise your knowledge, experience, quality, skills,...
  - Address potential supervisors/employer
  - Address potential R&D partners (academia or industry) – joint R&D projects
  - Address potential students
  - ...
  - Revenues
  - ...

# Way to Address Your „anybody“ (...not like this)

**Dear Sir,**

I am highly interested to apply for the job opportunity at your organization and I hope to anticipate a positive response from you soon.

Would you kindly keep me at the forefront of your mind, as I am very much genuine in my desire to join and share your organization.

I am looking forward for your prompt consideration and approval in this matter, as I will be glad to offer and provide my abilities and qualifications to your organization.

**Yours Sincerely,**

Asking for anonymous position? = I will do anything?

For that „unopen“ position is a queue?

Give me your answer fast!!

# Way to Address Your „anybody“ (...much better)

Dear <Mr. /Mrs. full name>,

my name is <my full name> and at Brno University of Technology I am dealing with <my R&D area> under supervision of <supervisor name>. My latest R&D achievements are....

I follow your R&D group and mainly the recent papers <paper titles>, where you prove the hypothesis on and highlight possible approaches for further improvements.

I am interested in cooperation with your team and further deepen my knowledge and develop my skills in...

...<internship options>...

I am looking forward for our join cooperation.

Best regards,

Make sure to know if are writing to him or to her!!

Possibly, he/she knows the name of your supervisor

Prove, that you carefully read these papers

Highlight, which area is the one you want to contribute to

Possibly mention, if you are interested in short-term intership that later will turn to a long-term contract

# Publishing Options

- So many!!
- Issue of „predatory journals“



Grudniewicz, A. *et al.* Predatory journals: no definition, no defence, (2019) <https://www.nature.com/articles/d41586-019-03759-y>,  
Illustration by David Parkins

# Publishing Options

- So many!!
- [IEEE Journals and Magazines](#)
- [John Wiley & Sons \(Wiley\)](#)
- [Elsevier](#)
- [Taylor & Francis](#)
- [Springer Journals](#)
- [De Gruyter](#)
- [MDPI](#) – To publish or not to publish? There are so many questions!



Pixabay: <https://pixabay.com/photos/hamlet-jorick-shakespeare-play-3013170/>



# Predatory Journals

- No clear peer-review process / if any review process
- No clear editorial board
- Journal titles very similar to those being trusted
- Advertise themselves with unclear/fictitious quality indicators
  - If any, not provided by trusted organizations (for us WoS/SCOPUS)
- Take advantage of the fact that scientists need to publish
  - Open Access issue

**No specific borderline between  
predatory and trustworthy journal**

# Identifying Predator is Also Science

Table 1. Criteria to rank predatory journals

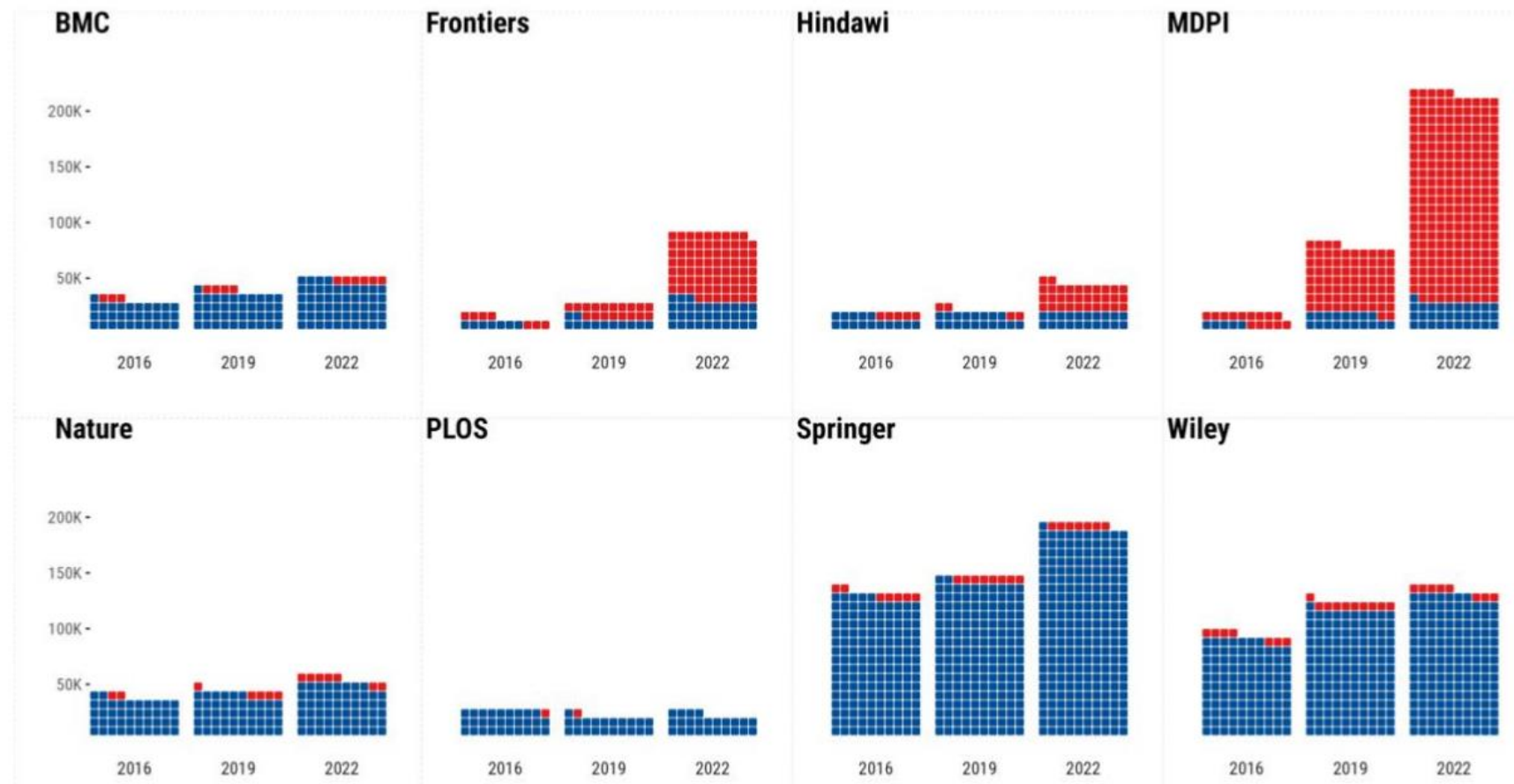
Criteria Group	Criteria	metric	weight
Editorial section	Email of editor	Official email	0
		General email service	1
		Not available	2
	Affiliation of editors	Full affiliation	0
		Only country name	1
		Not available	2
		Editors are from certain country	2
	Number of editors	Lower than 5	2
		Between 5-7	1
More than 7		0	
Review process and publishing	Review time	Lower than a week	2
		Lower than a month	1
		More than a month	0
	Unclear review process	Yes	1
		No	0
	No. of paper in each issue	Lower than 20 papers	0
More than 20 paper		1	
Questionable special issue	Yes	1	
	No	0	
announcement	Availability of journal full address	Yes	0
		No	1
	Using bogus metric and index	Yes	1
		No	0
Send journal spam email to receive papers	Yes	1	
	No	0	
OA policies and publication charges	Fast track fee	Yes	1
		No	0
	Submission fee	Yes	1
		No	0
	Publication Fee	Yes	1
		No	0
Charging both authors and readers	Yes	1	
	No	0	

Dadkhah M, Bianciardi G. Ranking Predatory Journals: Solve the Problem Instead of Removing It! Adv Pharm Bull. 2016 Mar;6(1):1-4. doi: [10.15171/apb.2016.001](https://doi.org/10.15171/apb.2016.001)

# Issue of (Too Many) Special Issues

Number of papers published in **regular** vs **special** issues, 2016-22

One square = 800 articles

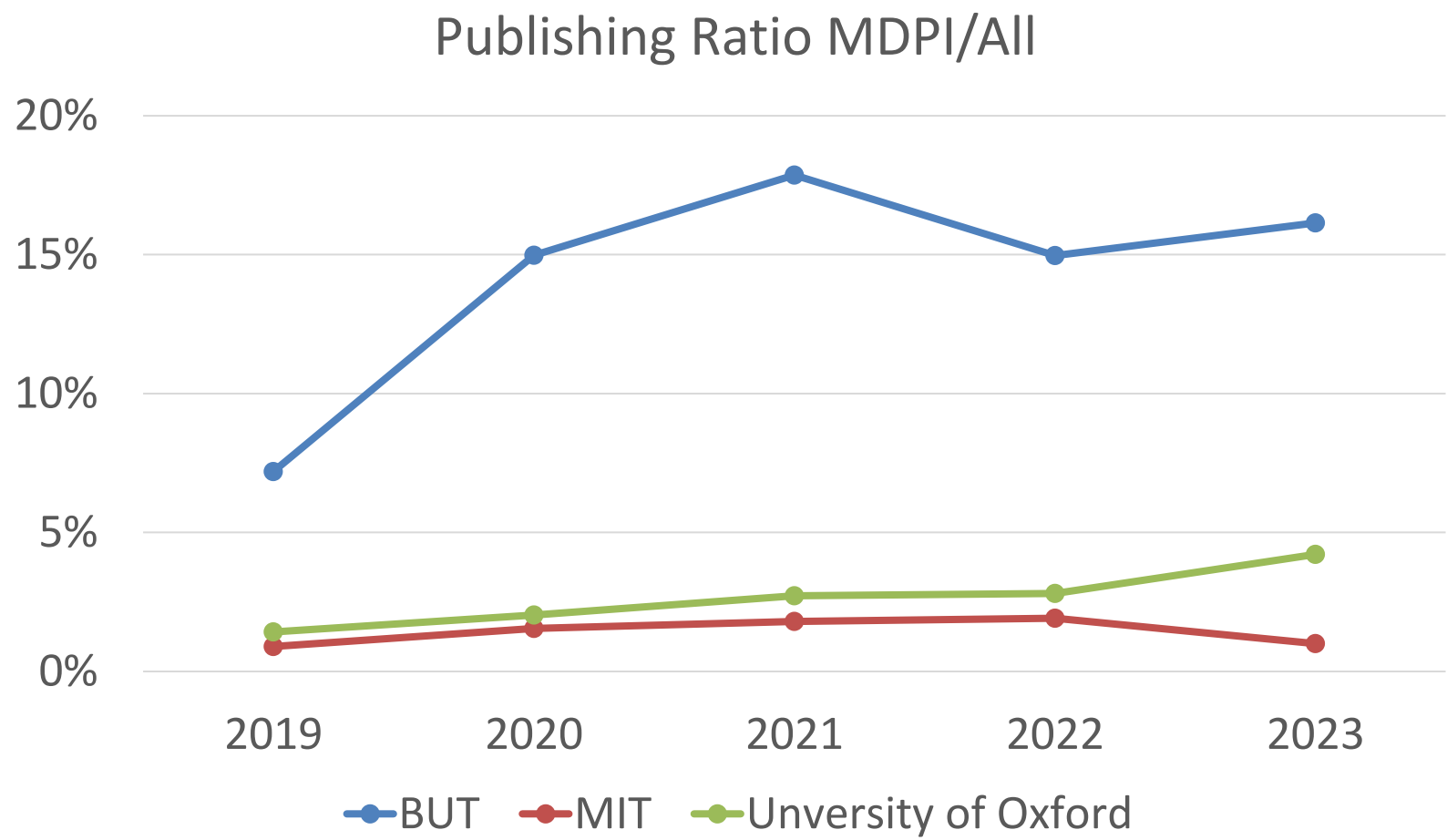


Hanson, M. A., Barreiro, P. G., Crosetto, P., & Brockington, D. (2024). The strain on scientific publishing. *Quantitative Science Studies*. Advance Publication. [https://doi.org/10.1162/qss\\_a\\_00327](https://doi.org/10.1162/qss_a_00327)

# Some More Reading

- [Where to publish: Avoiding predatory or deceptive publishers](#)
  - Video „Think. Check. Submit.“
- [Open Science at BUT \(CZ\)](#)
- Just in Czech
  - [Když se řekne MDPI \(2023\)](#)
  - [Chystané změny v podmínkách Fondu Open Access, VUT \(2023\)](#)
  - [Publikační činnost autorů Univerzity Karlovy v časopisech MDPI; UK \(2022\)](#)
  - [Publikování u vydavatele MDPI – aktuální trend; VŠB-TO \(2021\)](#)

# Publishing with MDPI at BUT



# Recommendations

- Do not publish with predatory journals. Otherwise you risk damaging your career
- MDPI is not forbidden to publish in, but diversify your journals (and publishers), where you publish your R&D results
- Publish in Journals indexed in SCIE (vs. ESCI index)

# Authors' Identifiers

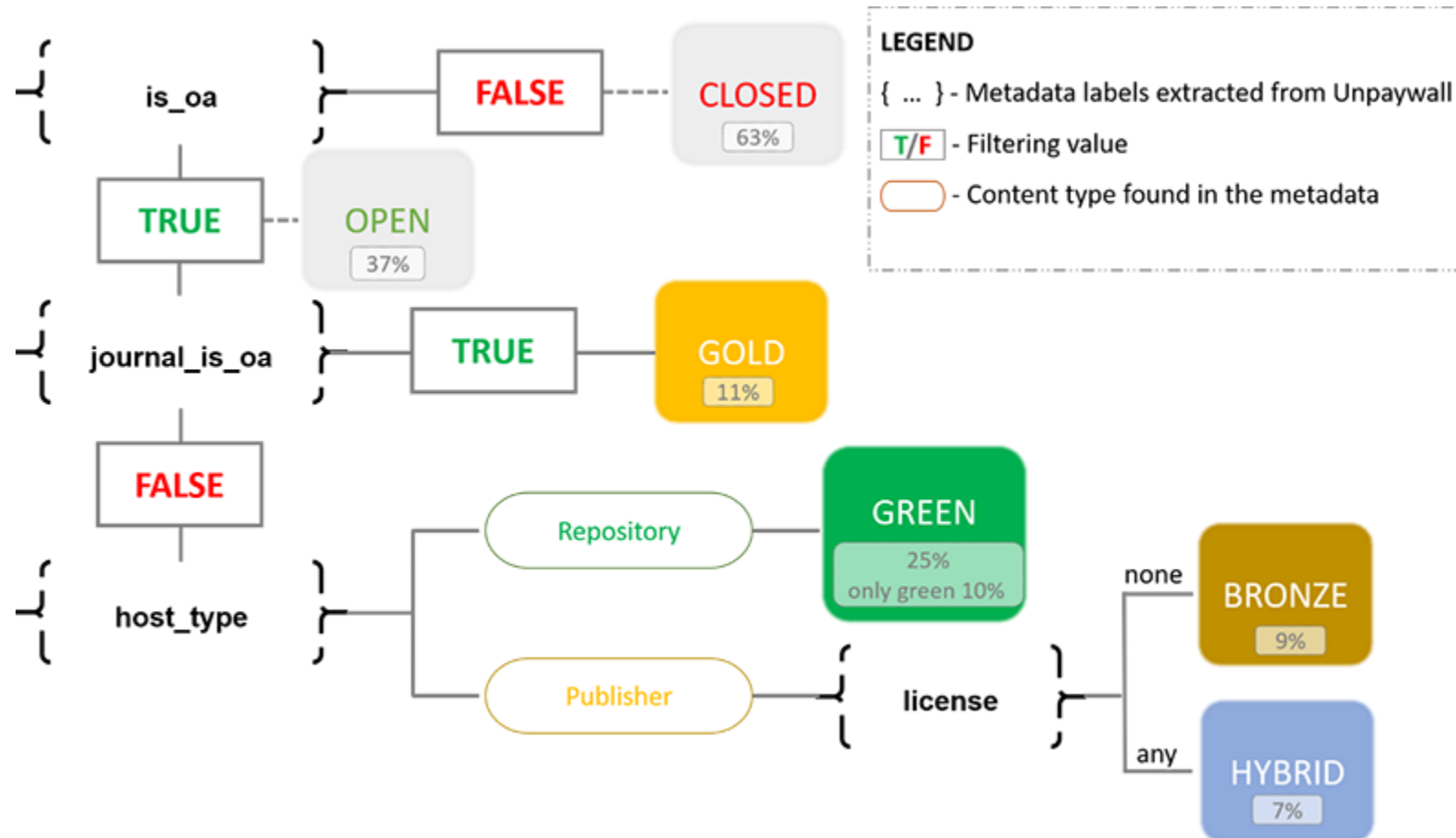
- Have them before writing your manuscript!
  - ORCID (Open Researcher and Contributor ID, „universal“)
  - ResearcherID (within WoS)
  - Scopus Author ID (within SCOPUS)
- Unique identifier summarizing our publication activity
- **Keep your profiles updated**
- Recall: [Directive No. 5/2018](#) – duty to create ORCID!
- Guidelines:
  - <https://www.vutbr.cz/en/uk/scientific-publishing/author-identifiers>

# „Colors“ of Open Access Publishing

- Green Open Access
  - self-archiving: publish in the journal of your choice, deposit a version of the publication in a repository and make it available in Open Access (sometimes after an embargo period set by the Publisher)
- Gold Open Access
  - Open Access journals provide immediate Open Access to the articles published
- Hybrid Open Access
  - immediate Open Access to articles on condition that an ‘Article Processing Charge - APC’ is paid



# „Colors“ of Open Access Publishing



van Leeuwen T., Costas, R., Robinson-Garcia, N. Indicators of open access publishing in the CWTS Leiden Ranking 2019, available online: <https://www.cwts.nl/blog?article=n-r2w2a4> [2024-12-14]

# Get Funding for My Open Access Publications

- My own project budget
  - [Call for project proposal at BUT is just open](#) (dealine January 31, 2025)
- Supervisor's project budget -> Ask!
- Dept. head -> Ask!
- BUT [Open Access Fund \(CZ\)](#) – pay attention to eligibility rules

# Recording Publications in IS Apollo

# Recording Publications in IS Apollo

- IS Apollo connected to [RIV](#) (Register of Information About Results)
- It is your must!
  - [Act No. 130/2002 Coll. on the Support of Research and Development from Public Funds \(CZ\)](#)

# IS Apollo

- Module Research and Development ->RD results

Apollo - Informační centrum VUT (ver.: 2024.4.0), R&D results (ver.: 2024.4.0), VUT login: koton

File Personal Research and Development Studies Teaching Entrance examination Faculty Rector's office BUT WWW Help

Start

Publications, technologies, patents, events

Guide List of RD results List of periodical

**View by**

- all available
- my (author)
- my (admin)
- author
- department
  - Fakulta elektro
- project
- funding provider
- user selection

**Type of results**

- all
- publications
- products
- patents
- events

**Legend**

- ok
- contains warnings
- contains errors
- deleted

RD result	c...	stat...	RD ID	type	name	identification	place	autoři	datu
			43913	Pi journal article	A remark on the existence of finite graphs		Praha	HAVEL, V.	
		✓	40241	Pi journal article	The Finite Element Method for Nonlinear Probl			MELKES, F.	
		✓	56850	Pi report	Okamžitá střední hodnota		Brno	SVAČINA, J.	
		✓	40236	Pi journal article	Reduced Piecewise Bivariate Hermite Interpolat			MELKES, F.	
		⚠	57204	Pi report	Výzkumná zpráva k dílčímu úkolu státního plár		Brno	VRBA, K.	
		✓	64792	Pi report	Assembler ADT 4000.			HANZÁLKOVÁ, M	
		✓	3942	Pi conference pa	Calculation oof magnetic field produced by a		Reno, USA	MELKES, F.	
		✓	56140	Pi report	Metody vyšetřování stability dynamických sou			HANZÁLKOVÁ, M	
		⚠	40225	Pi journal article	Ventricular function in patients with atrial fibril	ISSN 0010-8650		HONZÍKOVÁ, N., J	
		✓	46580	Pi journal article	Operační usměrňovač			Vrba K.	
		✓	55379	Pi book chapter	Studie operačního usměrňovače			Vrba K., Řičný V.	
		✓	46581	Pi journal article	Oddělovací stupeň s velkou vstupní impedancí			Vrba K.	
		✓	40644	Pi journal article	Několik poznámek k návrhu jednoduchých rel	ISSN 0036-9942		SVAČINA, J.	
		✓	64794	Pi report	Knihovna programů a podprogramů pro uživat			HANZÁLKOVÁ, M	
		✓	55020	Pi book chapter	Metoda vířivých proudů	ISBN 04-230-74	Praha	REZ, J.	
		⚠	64795	Pi report	Studie k výuce předmětu programování na FE			HANZÁLKOVÁ, M	
		✓	40518	Pi journal article	Exact Calculations of Three-Dimensional Magr	ISSN 0001-7043		MELKES, F.	
		✓	40645	Pi journal article	Jednoduchý zkoušecí přístroj	ISSN 0036-9942		SVAČINA, J.	
		✓	46543	Pi journal article	Poznámka k určení argumentu komplexního č			Vrba K.	
		✓	46582	Pi journal article	Dvoucestné operační usměrňovače			Vrba K.	
		✓	57205	Pi report	Vliv reálné soustavy na obnovení periodicky vz		Brno	VRBA, K.	
		✓	40646	Pi journal article	Řízení velikosti záporného diferenciálního odp	ISSN 0036-9942		SVAČINA, J.	
		✓	40623	Pi journal article	Vysokofrekvenční tranzistorový zesilovač výkor	ISSN 0037-668X		SVAČINA, J.	
		✓	40624	Pi journal article	Mikrovlnný kmitočtový demodulátor	ISSN 0037-668X		SVAČINA, J.	
		✓	58566	Pi course reader	Uzavřené symbolické adresy počítače ADT 4000			HONZÍK, J. HANZ	

# Publications' Identifiers – have these ready

- **DOI** – Digital Object Identifier
  - Prefix/suffix: xx.xxxx/????; e.g. 10.1515/fca-2021-0030
  - „Hidden“ in paper header/footer, in paper detail, part of URL
- **Accession Number** (UT WOS code)
  - 15 digit number; e.g. 000301236900016
  - In „See more data fields“ of a paper in WoS database
- **SCOPUS ID** (Scopus EID code)
  - 2-s2.0-{11 digits}; e.g. 2-s2.0-85108871490
  - Part of URL in SCOPUS database

# Using Help or On My Own

- Using help - [Ing. Patricie Příbylová](#) - Faculty Sci Dept
- On my own
  - Using Guide (semiautomatic)
  - Step-by-step – good, to do this through at least once,
    - read helpful hints


# Using Help

- Just write an e-mail to Ing. Příbylová *a la*
  - My paper was published here: <URL link to Publisher/WoS database>, please... or
  - My paper was published and the DOI is....., please...
  - ...please help me with recording it to IS Apollo. Thank you.
- **Your duty**
  - Define (co)authors' share on publication
  - Define share of BUT units linked to the publication
  - Start approval process



# Using Guide

- Only for results indexed by WoS
- Only for results with DOI
- **Your duty**
  - Define related project(s)
  - Define (co)authors' share on publication
  - Define share of BUT units linked to the publication
  - Start approval process



Publications, technologies, patents, events

Guide List of RD results List of periodical

+ Entering new results to the catalog of science and research

**New publication [based on DOI](#)**  
New publications include the following: an article in a magazine or proceedings, a book, a chapter in a book, lecture notes, abstracts, news, conference proceedings, presentations, a

**New action**  
New events includes: a conference, seminar, workshop, exhibition, cultural event, trade fair, sporting event or political event.

**New patent**  
You can register your patent, industrial or utility model, or a suggestion for improvement here.

**New product**  
New products include e.g. a prototype, functional sample, software, certified methodology, specialized map with an expert content, partial operation, technology demonstration and

# Step-by-step – The basic details (1)

- type of publication

**The basic details**

Only this section contains mandatory data which are necessary to be entered to save the record. We recommend to save regularly so that no data would be lost.

Select the type of publication from the list.

type of publication

confidentiality of details

the responsible department of BUT

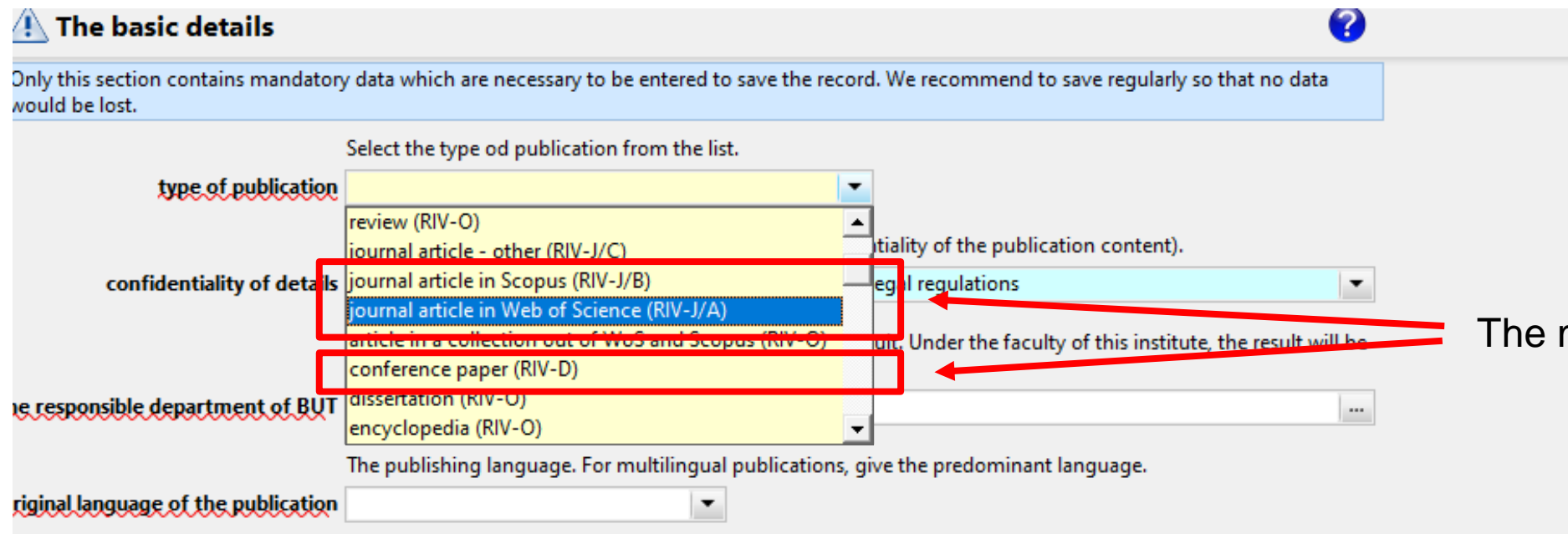
original language of the publication

review (RIV-O)  
journal article - other (RIV-J/C)  
journal article in Scopus (RIV-J/B)  
journal article in Web of Science (RIV-J/A)  
article in a collection out of WoS and Scopus (RIV-O)  
conference paper (RIV-D)  
dissertation (RIV-O)  
encyclopedia (RIV-O)

legislative regulations

Under the faculty of this institute, the result will be

The publishing language. For multilingual publications, give the predominant language.



The most common

**Incorrect selection of the publication type causes exclusion of the results from RIV and no income for university->faculty->dept->author**

# Step-by-step – The basic details (2)

- responsible department of BUT
  - Select **Department** not Faculty!
- original language

The publishing language. For multilingual publications, give the predominant language.

original language of the publication

Enter the name of the result in the selected original language.

the title of the publication in the original language

+ Add a title in another language...

Specify the result description in the original language.

description of the publication in original language

+ Add a description in another language...

Provide Key words in the original language. Separate the words or phrases with a semicolon.

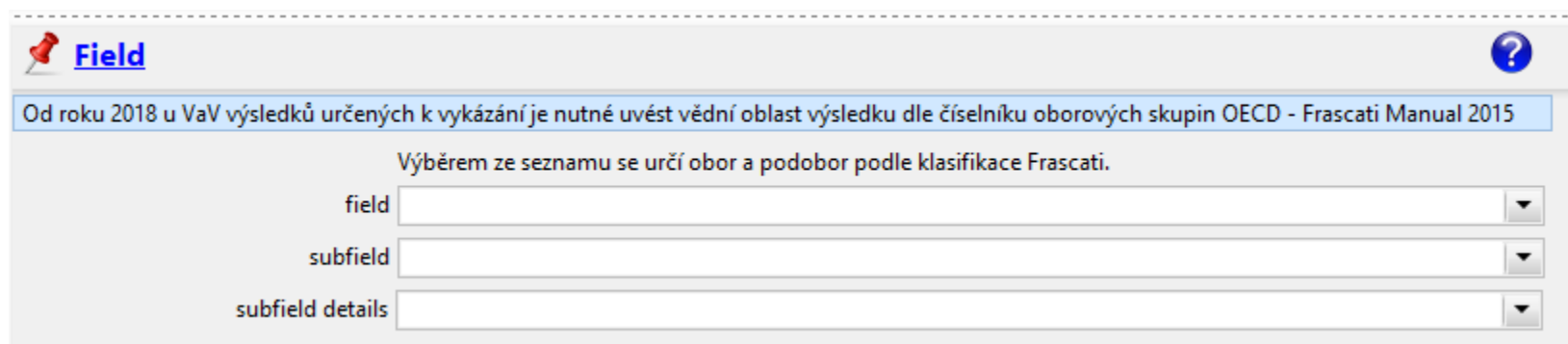
keywords in the original language

+ Add keywords in another language...

- if EN, no need to „add in another language“
  - if CZ then „another language is EN“
  - if not EN nor CZ, then „another language is EN and CZ“
- „decription“ is the **whole Abstract** of the paper

# Step-by-step – Field

- Select the research area (field), FORD (subfield) and Detailed FORD (subfield details) according to [OECD Frascati Manual 2015](#)



The screenshot shows a web interface for selecting research fields. At the top left, there is a red pushpin icon and the word "Field" in blue. At the top right, there is a blue question mark icon. Below this is a blue-bordered box containing the text: "Od roku 2018 u VaV výsledků určených k vykázání je nutné uvést vědní oblast výsledku dle číselníku oborových skupin OECD - Frascati Manual 2015". Below this box is a grey instruction: "Výběrem ze seznamu se určí obor a podobor podle klasifikace Frascati." There are three dropdown menus: "field", "subfield", and "subfield details", each with a downward arrow on the right side.

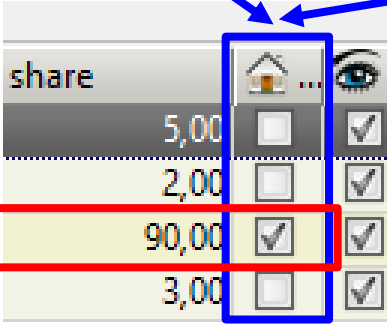
# Step-by-step – Additional information

- Number of pages – No. of pages of the paper, not the whole Journal/Conf. proceedings
- Strany – od... do... - if pages are unnumbered, then „od = 1“, „do = No. of pages“,
- UT WOS code – **obligatory** for RIV-J/A (Jimp)
- Scopus EID code – **obligatory** for RIV-J/A (Jimp) and RIV-J/B (J<sub>SC</sub>)
- DOI – **obligatory**, if exists (nowadays basically exists always)
- URL – **obligatory**, full link preferably to PDF of the paper or at least its metadata

# Step-by-step – Authors

- All co-author must be added (needs of BUT Central Library)
- For each define/select
  - Co-author share on publication - follow the [BUT Code of Ethics \(CZ\)](#) and assign the share according the contribution of each co-author!!
  - Is the co-author from (=„Home“) or out of (=„non-Home“) BUT?

Such a high share  
may be suspicious



share	<input type="checkbox"/>	<input type="checkbox"/>
5,00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2,00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
90,00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3,00	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Defined co-author share has no impact budgeting Department from the Faculty level!**


# Step-by-step - Units

- Linked units
  - Select **Departments** (not Faculties) **of BUT**, where the author are employed/active and that contributed to the publication
  - Units' share definition upon the main author
    - Most commonly based on the „Home“ co-authors' share
    - Based on the project (and topic) the publication is supported from
    - Based on agreement between Dept. heads -> ask for such agreement

**Defined units' share has impact to budgeting Department from the Faculty level!**

# Step-by-step – RIV reporting

- In default unchecked for selected RIV-O results
- If you uncheck the box you let your high-quality R&D result disappear

 **RIV reporting** ?

All the Results that have been generated during a project funded from the public resources must be in accordance with [Law No. 130/2002 Coll.](#) reported to the RIV.

In case that you have a serious reason not to report this result you can uncheck the following field.

the result is subject to reporting to the RIV



# Step-by-step – Projects

- Generally all projects that are listed in Acknowledgement of the publication
- Only projects that are indexed by national CEP (Central Evidence of Projects) and in module Projects of IS Apollo
- If the publication is a results of own R&D activity, without any dirrect support of a project, ask Dept. head for advice.

# Step-by-step – Serial publication

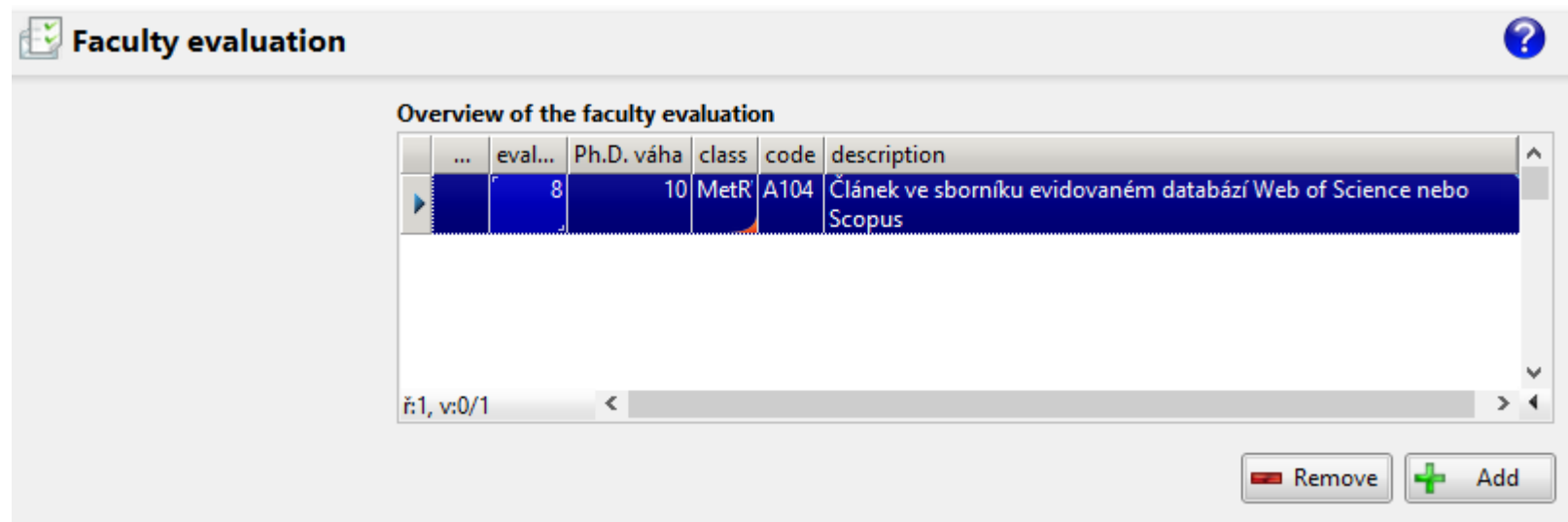
- Must select from the list of ISSN table known to IS Apollo
- If ISSN not found, contact Ing. Příbylová

# Step-by-step – Documents

- Possibility to upload the reprint – **highly recommended**
- Later made available online in BUT repository
  - Green Open Access
  - Done by BUT Central Library

# Step-by-step – Faculty evaluation

- Item just at FEEC
- A must for PhD students\*
- Determines points for R&D result added to your scientific-research activities within your PhD studies



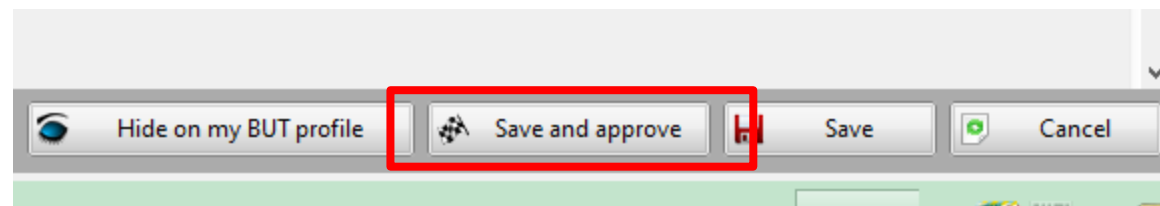
The screenshot shows a web application window titled "Faculty evaluation". Below the title bar is a section titled "Overview of the faculty evaluation" containing a table. The table has the following columns: "...", "eval...", "Ph.D. váha", "class", "code", and "description". A single row is visible with the following values: a blue play button icon, "8", "10", "MetR", "A104", and "Článek ve sborníku evidovaném databází Web of Science nebo Scopus". At the bottom of the table area, it says "ř:1, v:0/1". Below the table are two buttons: "Remove" (with a red minus sign) and "Add" (with a green plus sign).

...	eval...	Ph.D. váha	class	code	description
	8	10	MetR	A104	Článek ve sborníku evidovaném databází Web of Science nebo Scopus

\*until end of 2025, later Teacher tool is expected to count the points automatically

# Step-by-step – Approval

- Final step – Save and approve
  - The system requests all „Home“ co-authors to approve the declared co-authorship share
  - The systems requests all Dept. heads from listed Units to approve the declared unit share



# Specific Features for Other R&D Result Types

- Conference paper (RIV-D)
  - *Proceeding* – ISBN, Proceeding title
  - *Event* – selecting event from a list
- Applied R&D Results (Prototype, Functioning sample, Software,...)
  - *Parameters* – technological, economical
  - *License use conditions*
- Patents (+ Utility model, Industrial design)
  - *Editor* – patent office
  - *License use conditions*

# More from TB<sup>2</sup>PC Series

- Orientation for PhD students
- Evaluation of R&D results
- Knowledge transfer and legal aspects (so far just in Czech)
  
- ...more coming up
  - Career Development & Projects (2025)

**Good luck in your R&D efforts!**