



Alianța Timișoara Universitară



MINISTERUL CERCETĂRII,  
INOVĂRII ȘI DIGITALIZĂRII



MINISTERUL EDUCAȚIEI



Administrația  
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ACADEMIA ROMÂNĂ

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# Smart Diaspora 2023

10 - 13 Aprilie 2023,  
Timișoara

Eveniment aflat sub înaltul patronaj  
al Președintelui României

[www.diaspora-stiintifica.ro](http://www.diaspora-stiintifica.ro)



UNIVERSITATEA  
DE MEDICINĂ ȘI FARMACIE  
VICTOR BABEȘ | TIMIȘOARA



Parteneri instituționali:



Parteneri



Parteneri media





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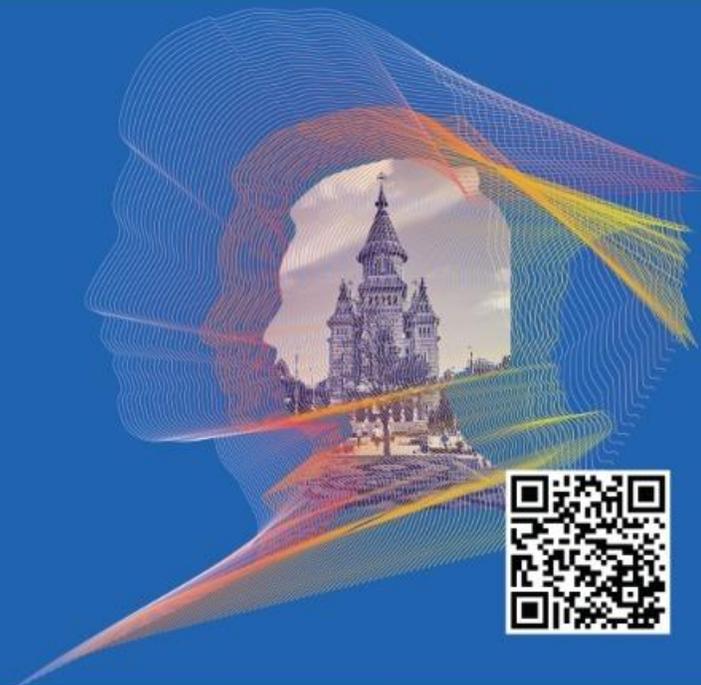
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Știința deschisă și implicațiile pentru evaluarea  
performanțelor în cercetare

Florin Alin SAVA, Universitatea de Vest din Timișoara

# Assessment Context

- San Francisco Declaration on Research Assessment (DORA, 2012)
- Coalition for Advancement in Research Assessment (CoARA, 2022) (500+ organizations)

*Relying solely on quantitative elements number of papers (quantity), and the JIF (a proxy for quality) is detrimental to the evolution of science/assessment of people*

## THREE MAIN REASONS

- **BAD FOR SCIENCE** (negative correlations with some research quality indicators – replication success, reporting errors, presence of HARKing) (Brembs et al., 2013; Dougherty & Horne, 2022; Kepes et al., 2022)
- **BAD FOR PEOPLE** (publish or perish culture affects the quality of life; disregard other activities and outputs)
- **BAD FOR BUSINESS** (flourishment of predatory journals/publishers)

# Threats of moving away from a scientometric view

- Distorted or irrelevant rankings (see U-Multirank)
- Threats to the university's prestige
- Absence of a real peer-review culture (in some countries)

Principle 2:  
Quantitative  
indicators needs  
to used  
responsibly

Principle 4:  
Value quality  
over impact and  
quantity

Principle 3: Use  
(a)  
methodological  
rigor, (b) impact,  
and (c) quantity

Principle 1:  
Academic  
contributions  
are multifaceted

# Being inclusive and rigorous

## Types of academic contributions:

1. Research

2. Teaching

3. Leadership  
(e.g., mentoring, management and organizational skills, strategic thinking)

4. Service to the academic institution/ field

5. Societal impact  
(e.g., science communication/ citizenship)

Contributor roles

## Research outputs (ROs):

Publications

Data sets

Research software

## Evaluation dimension:

Rigor  
(for each RO)

Impact  
(for each RO)

Quantity  
(aggregated)

- Registered report
- Analysis script provided
- Open material
- Independently verified reproducibility
- Formal modeling
- Manipulation checks
- Follows reporting guidelines
- ...

- Citation count
- Altmetrics
- Societal impact
- ...

- Number of papers
- ...

- FAIRness
- Representativeness
- Size
- Uniqueness/effort of data collection
- ...

- Citation count
- # of reuses from other authors
- ...

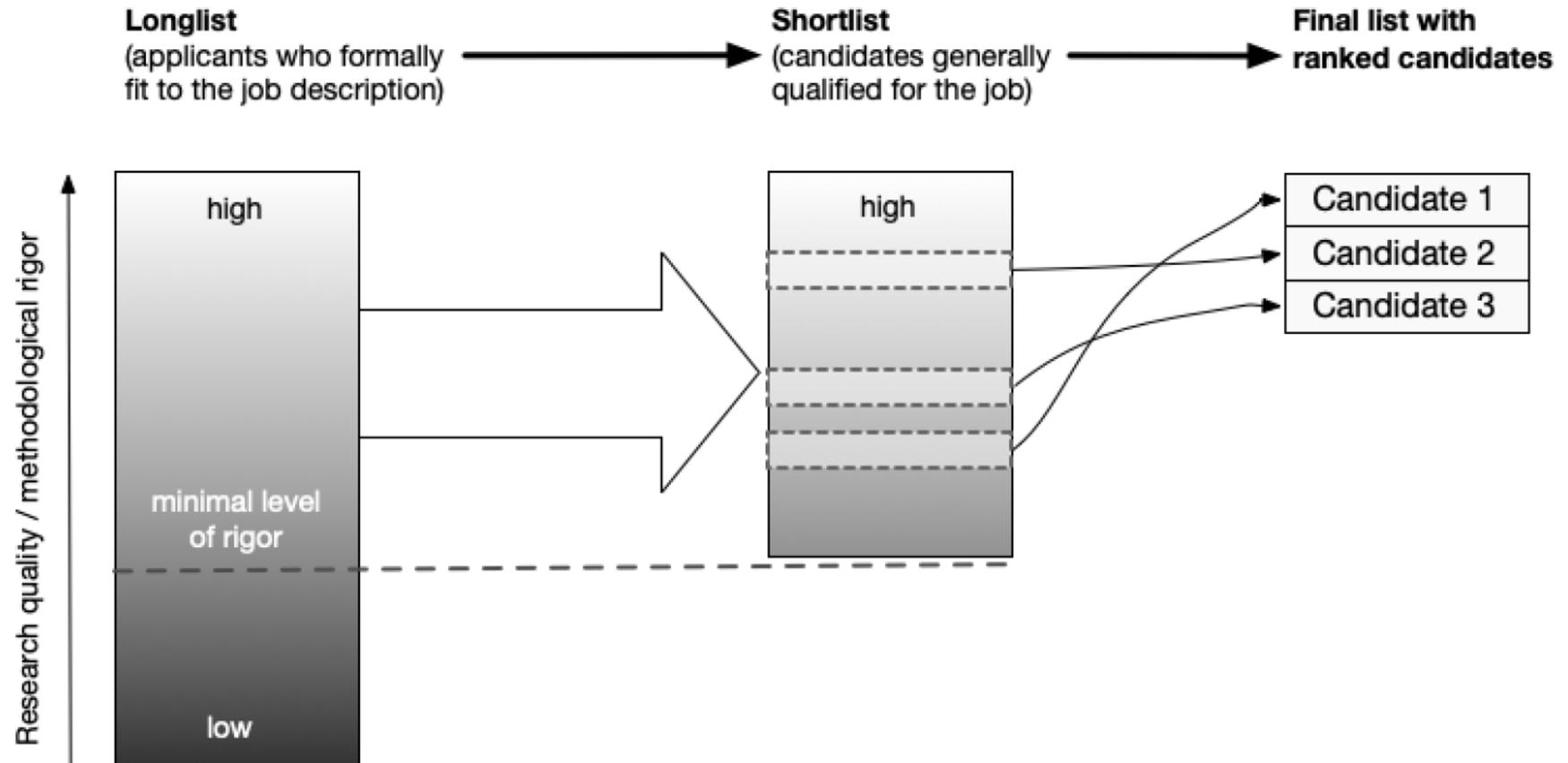
- Number of published data sets
- ...

- Independent review
- Unit testing
- Documentation
- Technology Readiness level
- ...

- Citation count
- Dependencies
- Github stars
- ...

- Number of published software
- Duration of active maintenance
- % of applicants contribution to a product
- ...

# A two-stage proposal



**Primary means of assessment:**

**Phase 1 (negative selection):** Use indicators to filter out applicants with insufficient methodological rigor, too low productivity, and necessary criteria from the other types of academic contributions (e.g. teaching)

**Phase 2 (positive selection):** In-depth discussion about how innovative and meaningful the research is, considering all other academic dimensions such as *Teaching* and *Societal Impact*. Metrics should play no role in this step. Read merit statements; read papers of the final candidates.

Open Science-related tools are essential for meeting the rigor criteria  
(a necessary condition for quality)

- Independently verified reproducibility (open materials, script provided, available datasets, FAIRness)
- Preregistration