The Case for a Percentage-based Author-contribution System in Scientific Publishing

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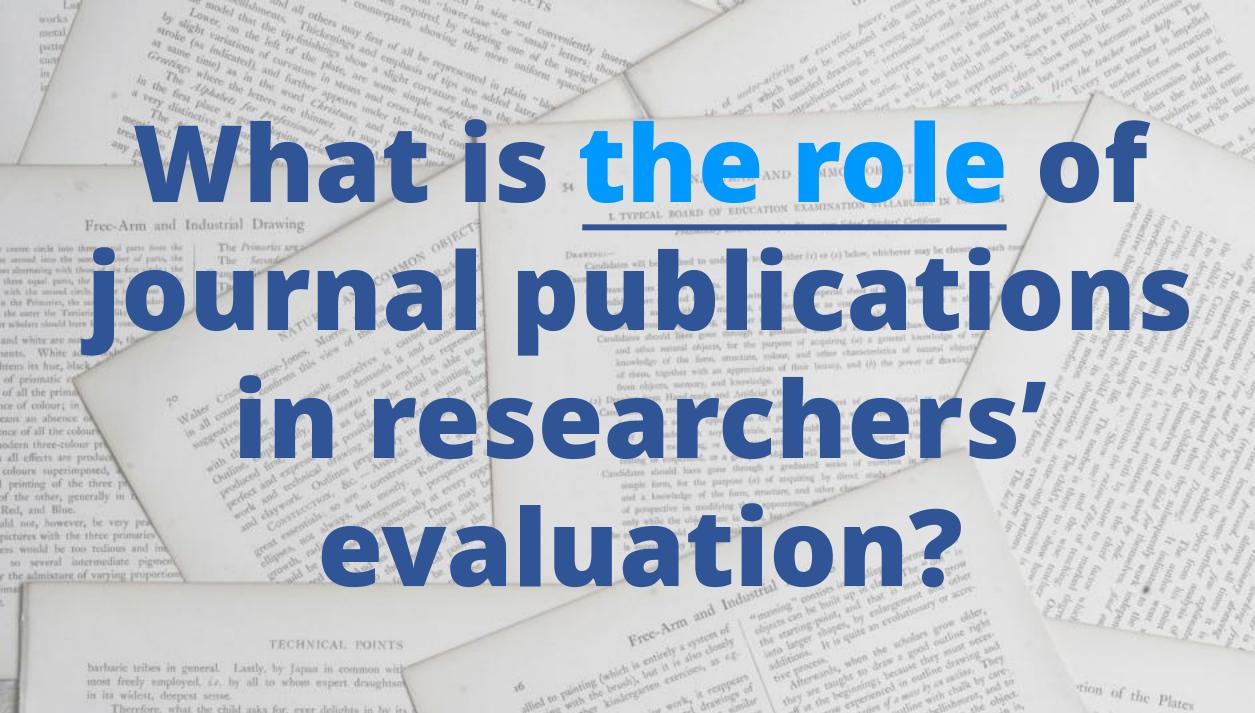
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7th WORLD CONFERENCE ON RESEARCH INTEGRITY ATHENS, GREECE WEDNESDAY, JUNE 5, 2024 • OP 33, MC2 HALL 15:00-16:00





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TECHNICAL POINTS

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- Poor roviowed journal publications play a key role
- Peer-reviewed journal publications play a key-role in most stages of career development in academia
- Three "axioms" for journal publications
 - the **more** in number, the **better**

The current status

- $\circ\,$ the higher the journal impact, the better
- $\circ\,$ the higher the citation count, the better



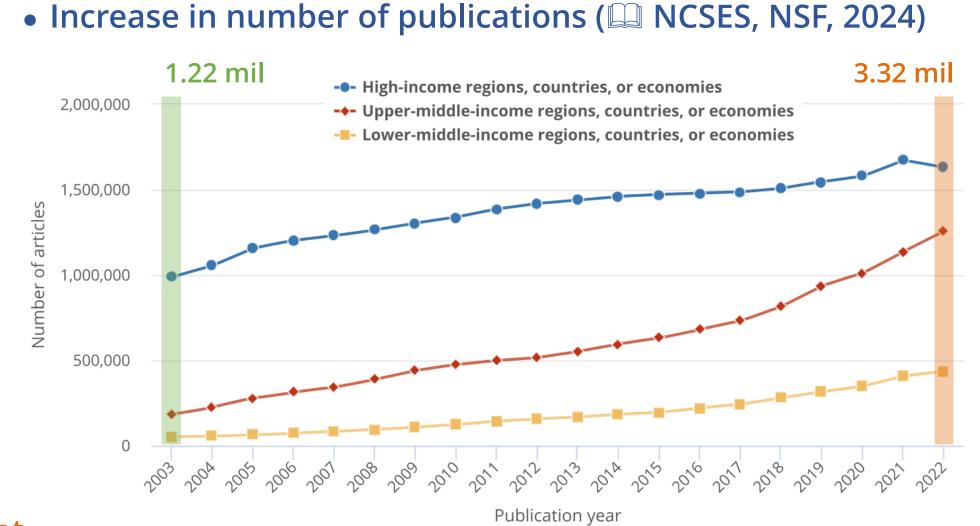


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What do the data show?

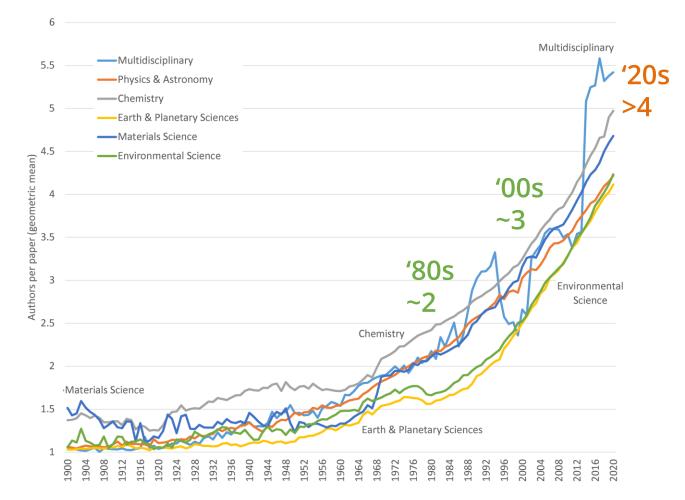






What do the data show?

Increase in number of authors per publication (III) Thelwall and Maflahi, 2022) effects

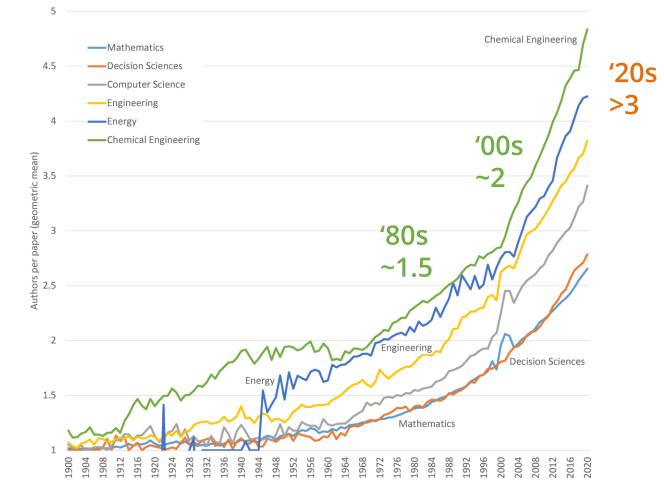


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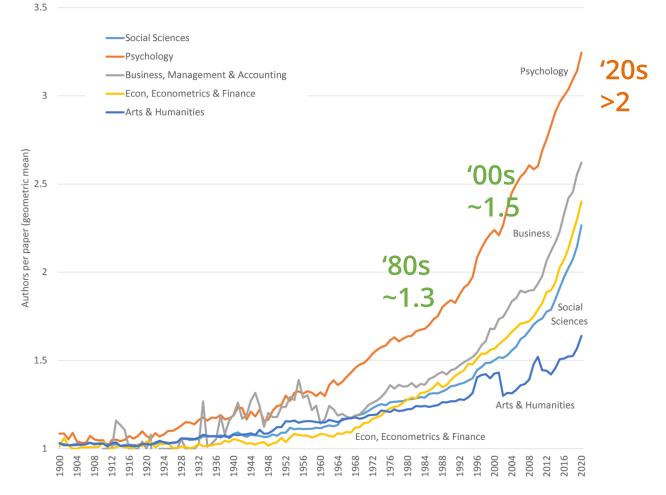


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What do the data show?

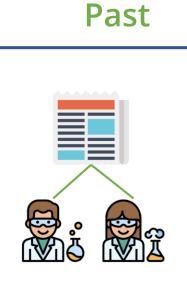


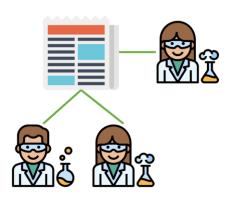


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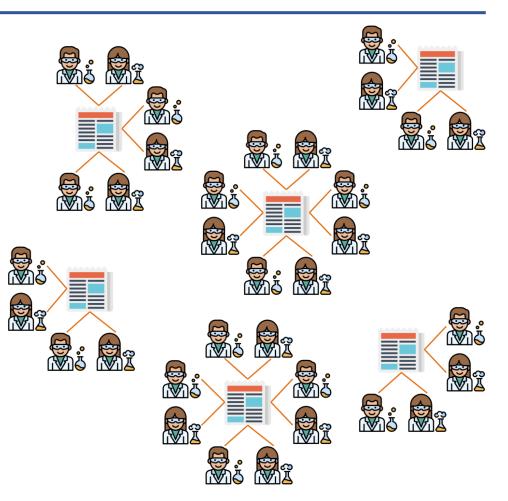


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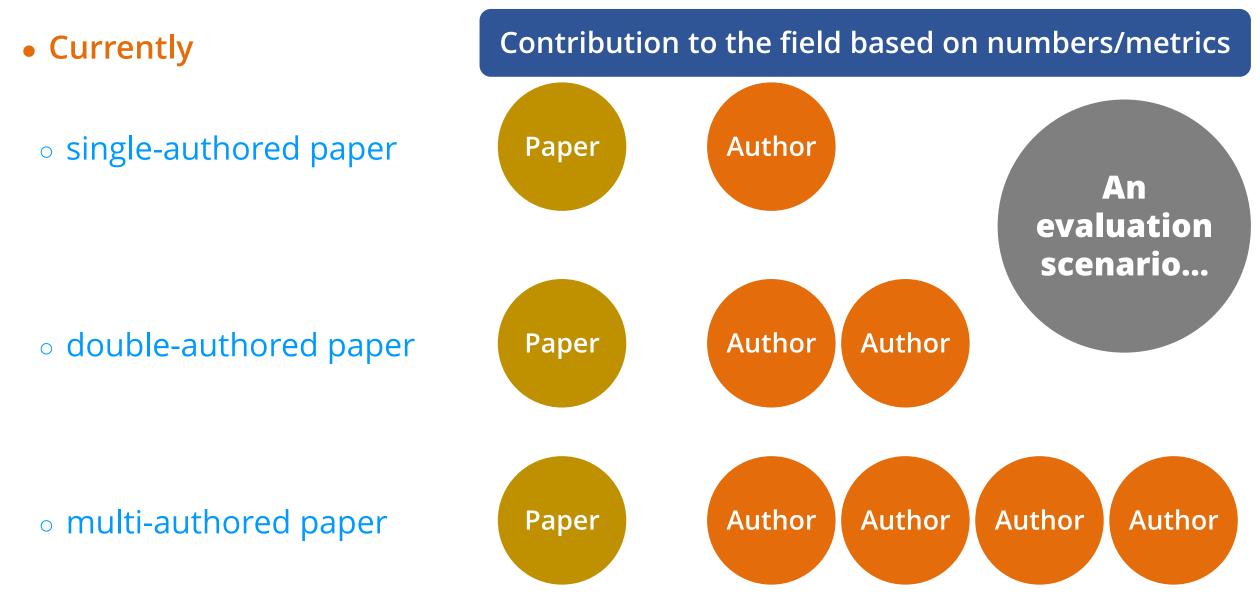




vs Present







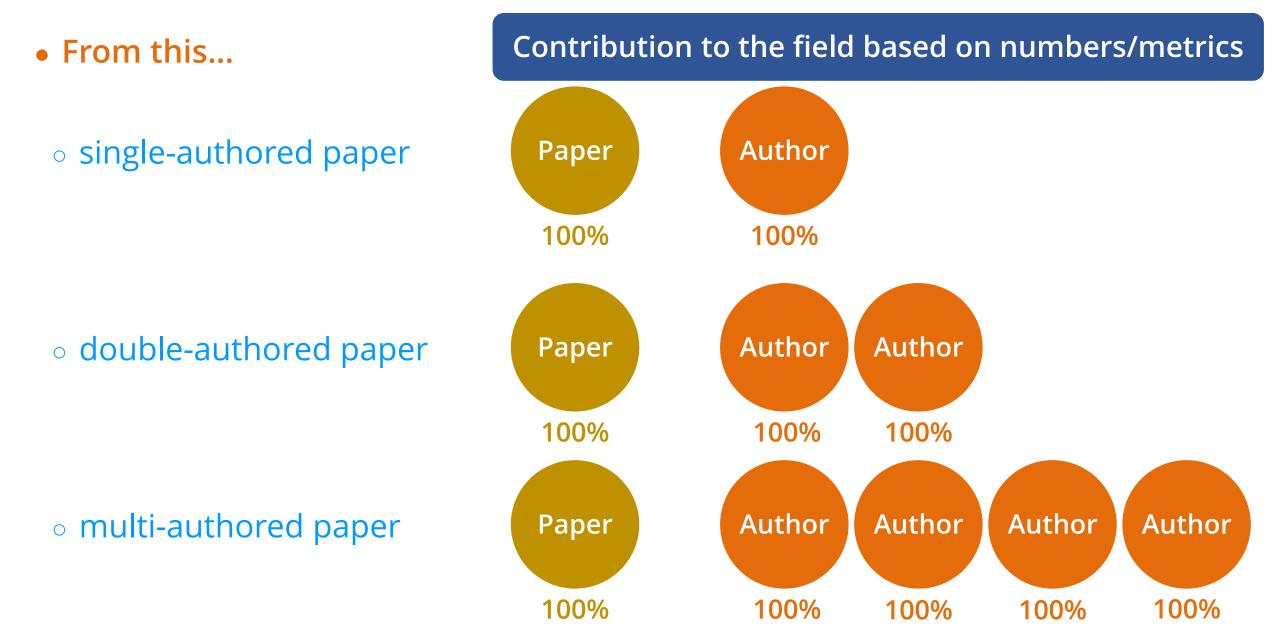


• The proposal

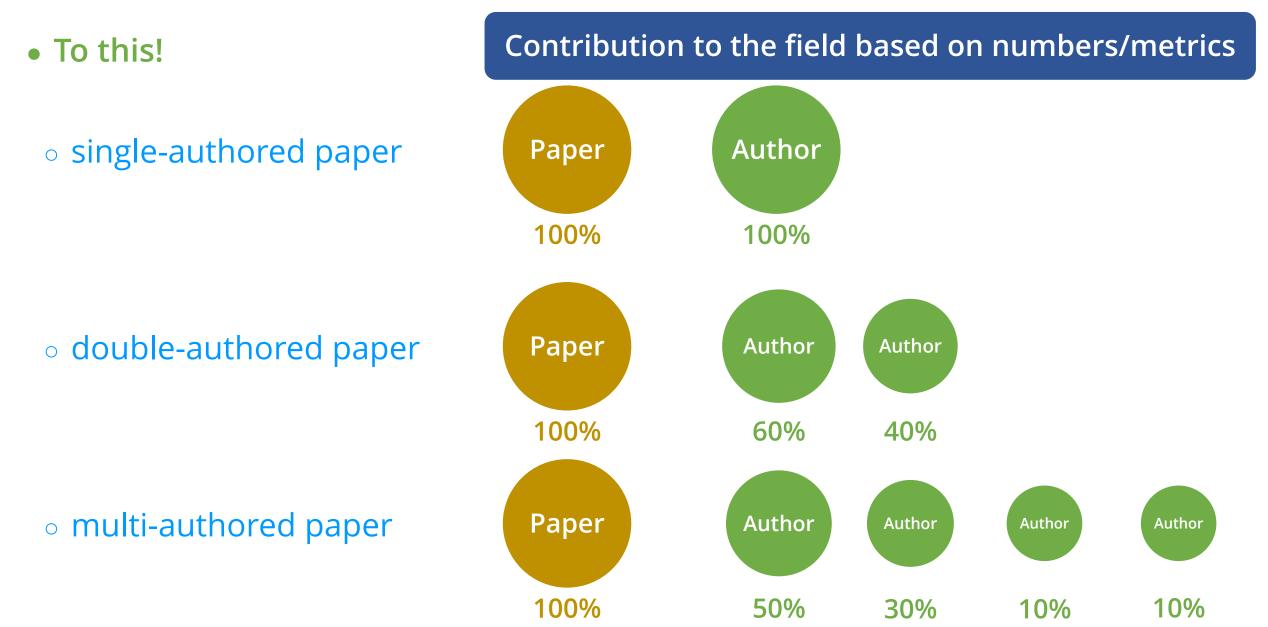
Co-authors of a paper will have to declare a percentage-based author-contribution list totaling to 100%

This percentage will represent each author's contribution to their field through the specific paper and can be associated with whichever number/metric (journal impact, citation count, or other)









• Example 1

Contribution impact based on Citation Count & H-index

Paper No.	Author Contrib. %	Citation Count (papers)	Citation Count (author)	
	[1]	[2]	[3] = [1]* [2]	
1	100%	5	5	
2	50%	4	2	
3	50%	4	2	
4	25%	4	1	
5	10%	10	1	
Sums		27	11	
H-index		4	2	



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WCRI





Contribution impact based on Journal Impact

Paper No.	Author Contrib. % [1]	Citation Count (papers) [2]	Citation Count (author) [3] = [1]* [2]	Journal Impact Metric [4]	Contrib. to the field (papers) [5] = [4]	Contrib. to the field (author) [6] = [1]*[4]
1	100%	5	5	3	3	3.0
2	50%	4	2	2	2	1.0
3	50%	4	2	2	2	1.0
4	25%	4	1	2	2	0.5
5	10%	10	1	4	4	0.4
	Sums	27	11		13	5.9
F	l-index	4	2			

How would this change things?

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• Example 3

*Contribution impact based on Journal Impact * Citation Count*

Paper No.	Author Contrib. % [1]	Citation Count (papers) [2]	Citation Count (author) [3] = [1]* [2]	Journal Impact Metric [4]	Contrib. to the field (papers) [5] = [2]*[4]	Contrib. to the field (author) [6] = [3]*[4]
1	100%	5	5	3	15	15
2	50%	4	2	2	8	4
3	50%	4	2	2	8	4
4	25%	4	1	2	8	2
5	10%	10	1	4	40	4
	Sums	27	11		79	29
н	l-index	4	2			

How would this change things?

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Rational & Fair

Promotes RI & Hurts bad practices

Easy to implement

- easily expanded to all metrics
- seamlessly integrated to all scientific databases

Intact paper's contribution to the field

authors' profiles with both papers' & authors' contributions

...But we should always strive to improve the current one

A perfect system

might never exist...

Thank you for your attention!

Achilleas G. Samaras Civil Engineer, PhD Associate Professor Dpt. of Civil Engineering, D.U.Th. Coordinating Author Third World Ocean Assessment, U.N.



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