

Research Compendium Review Matrix

Authors:

Title/DOI:

1) Read the title, abstract & introduction. 2) Read the sub-headings. 3) Read the conclusion. 4) Skim the references and URLs (articles, data, software) for familiar ones.

1st PASS (5 minutes)	Category		Is this research compendium useful?
	Context		
	Correctness		
	Contributions		
	Clarity		
	Construction	building blocks, programming language, algorithms, accessibility, usefulness	
	Complexity	scale, OS, cores, memory, execution time, data size, software dependencies	

2nd PASS (1 hour)	What does it do?	Rationale	
		Aims	
		Hypothesis	
	How does it do it?	Participants	
		Method	
		Tool quality	
	What did it find?	Findings	
		Implications	
		Falsifiable	
		Limitations	
		Reproducible	

3rd PASS (2+ hours)	Weaknesses	Pinpoint implicit assumptions	
		Experimental/ analytical errors	
		Missing citations	
	Strengths	Presentation technique	
		Support for conclusion	
		Internal efficacy	
	Application	Working through examples	
		Use with other problem/data/ code	

Ref: How to Read a Research Compendium, Nüst et al., <https://...>  
Based on Literature Review Matrix designed by Iain H. McLean.