



# **ENRESSH Work Group 1**

# Overview of Peer Review Practices in the SSH

# **ENRESSH Report**

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## **Executive summary**

Peer review is an important method of research evaluation, and it seems that the only adequate way to evaluate SSH research involves some form of peer review. Even if bibliometrics and other quantitative ways of evaluation may provide information on some aspects of SSH research like productivity and publication strategies of research units, metrics-based indicators should be used with caution in SSH due to low coverage of SSH fields in the standard publication databases and a mismatch between dimensions of quality as defined by peers and standard bibliometric indicators. Still, peer review faces many issues and challenges. This report identifies the challenges particularly relevant for the SSH, such as different and thus often conflicting research paradigms or epistemological styles of reviewers and applicants or authors; difficulty in many SSH disciplines to define and evaluate research methodology compared to STEM disciplines; the lack of the idea of linear progress and a much longer time span necessary to evaluate academic impact of publications; the diversity of publication outputs and specific importance of books or monographs; the importance of local languages; challenges related to recent developments in research and its evaluation related to growing interdisciplinarity and the Open Science agenda. To this, the general challenges of peer review are added, such as the risk of gender bias, conservative bias, workload for all parties involved.

The report concludes that peer review fulfils different functions and that peer review practices not only need to acknowledge different disciplinary particularities but also their evaluative context. Rather than playing metrics and peer review off against each other, the focus should be on their optimal use and combination within different evaluation situations. This is especially important when it concerns the SSH because the disciplines falling under this umbrella term share the concurrency of different paradigms and a context-dependent, sometimes interpretative mode of knowledge generation and the use of a wide range of dissemination channels. This leads to a particular challenge regarding the burden of reviewers because SSH disciplines often act in a local context in national languages and include small disciplinary communities.

The SSH disciplines should develop their own ways to adequately evaluate their research, and peer review takes an important part in that. The past has shown that automatically copying evaluation procedures from STEM disciplines did not always work out well. However, the SSH community is well resourced to analyse and remediate the current tensions in research policies between funders' expectations of societal impact and the value of academic autonomy, between the ambition of mainstreaming of SSH research and the care for specific SSH methods and practices, and not least the threatened legitimacy of science in the post-factual society. The task of the SSH community should not only be to defend the integrity of scholarly disciplines, but to contribute to the development of new practices of research assessments that may build bridges between different communities of researchers and between the world of research and society at large.

Keywords

Peer Review, Evaluation, Criteria, Societal Impact, Books, Funding, Open Access





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# Practices of peer review in the SSH I: A systematic review of peer review criteria

By Sven E. Hug, Marek Hołowiecki, Lai Ma, Mirjam Aeschbach & Michael Ochsner

#### Introduction

Criteria are an essential component of any procedure for judging merit. This is widely acknowledged in the literature on peer review. Yet pertinent literature reviews and compendia do not mention or only briefly discuss peer review criteria. To address this research gap, a systematic review of studies on peer review criteria has been conducted. The review focused on the most fundamental question in any evaluation: what criteria are employed in the evaluation? The systematic review was restricted to the two most common forms of peer review: the assessment of manuscripts submitted to journals and the assessment of grant applications. The objectives of the review were (a) to identify studies that develop or derive criteria inductively, (b) to determine how many of these studies focus on the social sciences and humanities, and (c) to provide a taxonomy of criteria. In the following, preliminary findings on objectives (a) and (b) will be reported. Methodological details and final results will be published in scholarly journals (Hug & Aeschbach, 2019; Hug et al., in prepration).

#### **Preliminary findings**

Twelve studies on grant review criteria and twice as many on manuscript review criteria were identified (see Table 1). While the first inductive study on manuscript criteria (i.e. Bonjean & Hullum, 1978) dates back to the time when modern peer review emerged (see Baldwin, 2017, 2018; Moxham & Fyfe, 2018), the first study on funding criteria was only carried out in the 1990s (i.e. Hartmann, 1990). Most studies have examined criteria in the medical and health sciences and the social sciences. Studies on other fields are scarce and there are no studies on manuscript criteria in the natural sciences and in engineering and technology. A possible explanation for the latter could be the fact that all studies on manuscript criteria were done by "insiders" (i.e. researchers examined the criteria employed in a journal of their own field). Since qualitative-inductive approaches are not in the (standard) repertoire of researchers in the natural sciences and in engineering and technology, it is unlikely that criteria are inductively studied in these fields. The systematic review showed that manuscript criteria are mainly examined with data from actual reviews and comments. In contrast, data collection methods such as interviews, surveys and the Delphi method are as important as actual reviews in studies on grant criteria.

<sup>&</sup>lt;sup>8</sup> While an inductive approach generates criteria from empirical data, a deductive approach employs theoretically determined or otherwise predefined criteria. The very first studies on peer review criteria employed a deductive approach (e.g. Chase, 1970; Frantz, 1968). The systematic review, however, did not focus on theoretically derived or otherwise predefined criteria but on inductively and empirically established criteria, which were, for example, based on quality conceptions of scholars or on actual comments of reviewers.





Table 1. Characteristics of studies that develop or derive peer review criteria inductively (preliminary data).

	Studies on manuscript	Studies on grant re-
	review criteria	view criteria
Total number of studies included in the review	24	12
Publication year of studies		
First study	1978	1990
Latest study	2018	2018
Median	2004	2007
Number of studies analysing criteria in the		
Natural sciences	_	2
Engineering and technology	_	2
Medical and health sciences	8	8
Agricultural sciences	1	_
Social sciences	14	4
Humanities	2	3
Data collection		
Interview, survey, Delphi method, etc.	5	7
Actual reviews and comments	19	5
Number of criteria per study		_
Minimum	8	7
Maximum	223	66
Mean	44	26
Median	19.5	21

Studies on manuscript criteria on average report more criteria than studies on grant criteria (44 and 26, respectively). In particular, while the study that reports the most grant criteria (Pollitt et al., 1996) lists 66 criteria, there are six studies on manuscripts that list more criteria. For example, Campion (1993) lists no less than 223 criteria for reviewing research articles in applied psychology. A possible reason for this difference could be the strong improvement focus of the manuscript review process, which could promote more detailed comments of reviewers or prompt authors of studies on manuscript criteria to perform more fine-grained analyses. If, however, one ignores the studies that report a large number of criteria (i.e. those larger than the median), a similar pattern emerges: 50% of the manuscript and grant studies report 8 to 19 and 7 to 21 criteria, respectively.

### **Preliminary conclusions**

Although there are tens of thousands of publications on peer review (see Batagelj et al., 2017) and although criteria are an essential component of any evaluation process, there are only very few studies that focus on criteria peers actually use or prefer. In particular, 24 inductive studies on manuscript review criteria and 12 inductive studies on grant review criteria were identified in the systematic review. With respect to research fields, the systematic review showed that most studies analysed criteria in the medical and health sciences and in the social sciences. These findings suggest that there is a need for more studies on peer review criteria in general and more studies on the natural sciences and humanities in particular. In addition, future studies should develop a comparative perspective to improve the understanding of the commonalities and peculiarities of the evaluation cultures of different fields and disciplines. From a practical standpoint, studies on peer review





criteria are relevant as they contribute to increasing the transparency of peer review processes and they support early career researchers in learning the basics of peer assessment.

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