

**Abstract title: Unfolding the limitations of internal and external algorithmic transparency in newsrooms**

Abstract: The increasing implementation of automated and algorithmic systems in journalism has triggered calls for the creation of responsible and ethical (generative) AI. However, focusing on improving algorithmic systems neglects the human factor of interacting with, understanding and interpreting the output of these systems. Instead of simply improving to blindly trust such system more accountability in the form of algorithmic transparency is required in newsrooms. However, scholarly work has shown that algorithmic transparency is far from sufficient when one wants to grasp the technicalities of an algorithm. This study evaluates the different limitations of internal and external algorithmic transparency in newsrooms in the US, the UK, and the EU. Expert interviews were conducted with news workers from *The Wall Street Journal*, *The Washington Post*, *BBC*, *Der Spiegel* and *Bayerische Rundfunk* to map these shortcomings and to come up with potential solutions for algorithmic transparency. Our findings indicate that journalists as primary storytellers or knowledge creators do not sufficiently understand algorithmic systems and instead put faith in both their engineering colleagues and external software developers. Respondents plead for more explainability in addition to transparency and openness to bridge the knowledge gap of the limitations.