

Qresp, a tool for curating, discovering and exploring reproducible scientific papers

Marco Govoni,

University of Chicago and Argonne National Laboratory, USA

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Abstract: The availability of data presented in scientific papers is often hindered by the lack of direct links between published results and the datasets used to generate them. In the case of papers published by the physics, chemistry and materials science communities, such links may be a complex combination of connections to large and heterogeneous datasets. We developed a platform for the dissemination and reproducibility of data on a per-publication basis. We envision each scientific paper to be complemented by electronic notebooks that describe dataset manipulations, and with metadata available to describe provenance of all used codes and experiments. We will discuss the main pillars of the infrastructure developed to make data searchable and shareable, and metadata available.