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Using OAI-ORE to Simplify Data Publishing Workflows

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Summary

One of the most fundamental aspects of scientific scholarly communication is the ability to access and examine cited data. Without this ability, the very essence of the scientific method, with its requirement of validating results, becomes compromised. The National Virtual Observatory (NVO, <http://us-vo.org>) project is playing a leadership role in building services for the astronomy community to access and analyze astronomical data. However, thus far the scope of the NVO has deliberately not included long-term data curation, focusing instead on data location and data access standards and protocols. Our project –a collaboration of astronomers, a scholarly society, its publishing production partner, and research libraries –has among its goals the capture of related data during the article submission process.

One of the most interesting challenges of the project thus far has been the management of the article submission workflow. The challenges are several:

- Gather more metadata and datasets from authors without significantly increasing their workload.

To accomplish these goals, we have chosen Open Archives Initiative Object Reuse and Exchange (OAI-ORE)[5] and Simple Web-service Offering Repository Deposit (SWORD)[6] as enabling technologies.

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