

Automated Provenance Management for Enabling Scientific Data Reproducibility

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Provenance traces history within workflows and enables researchers to validate and compare their results. Modelling workflows in ProvONE standard provenance model is an arduous task and lacks an automated approach.

To overcome this limitation, in this talk we present a novel graph drawing algorithm for generating ProvONE prospective provenance graphs.

These graphs are further updated with the relevant retrospective provenance during the execution of the workflow.

Finally, we also show the provenance management architecture for scientific data repository and present the various queries for retrieving the provenance information.

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