TeRAbytes

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VAMPIRA provenance generation

We have developed VAMPIRA, software capable of automatically generating provenance for data-intensive scientific workflows. Provenance generated by VAMPIRA describes the record of the data processing, metadata, infrastructure and user data involved within a workflow as well as the interactions between them. Armed with this extra information, scientists will be able to make more informed decisions on the trustworthiness of data products, pipelines, or pipeline components. Therefore, VAMPIRA can help to solve the so-called "black box problem"which is prevalent in modern artificial intelligence (AI) research due to the increasing intricacy and complexity of AI workflows.

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