

The SHIWA simulation platform for workflow interoperability and sharing

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Workflow applications are very widely used to enact scientific applications on the grid infrastructure. Scientific workflow language provides high-level construct which is well suited to describe complex data-intensive applications. Communities may use many different workflow languages and to be able to share the scientific work, they need an interoperability solution. The workflow environment shields the end users from the low-level details related to the use of the grid infrastructure. The SHIWA project provides a multi-systems workflow execution platform and an interoperability solution, called the SHIWA Simulation Platform, that enables the collaboration of user communities that work on similar research field but use different workflow systems. The SHIWA Simulation Platform also includes a repository for publishing and sharing workflow applications. During the presentation both coarse- and fine-grained solutions will be introduced, together with the achievements the SHIWA project. The tools presented during this presentation can be of interest for any community who want to publish and share workflows, and also want to work together with others to ease and extend their research.

Description of the work

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Link for further information

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Wider impact of this work

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Printable Summary

Workflow applications are very widely used to enact scientific applications on the grid infrastructure. Scientific workflow language provides high-level construct which is well suited to describe complex data-intensive applications. Communities may use many different workflow languages and to be able to share the scientific work, they need an interoperability solution. The workflow environment shields the end users from the low-level details related to the use of the grid infrastructure. The SHIWA project provides a multi-systems workflow execution platform and an interoperability solution, called the SHIWA Simulation Platform, that enables the collaboration of user communities that work on similar research field but use different workflow systems. The SHIWA Simulation Platform also includes a repository for publishing and sharing workflow applications. During the presentation both coarse- and fine-grained solutions will be introduced, together with the achievements the SHIWA project. The tools presented during this presentation can be of interest for any community who want to publish and share workflows, and also want to work together with others to ease and extend their research.

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