



Contribution ID: 34

Type: **Workshop or Hackathon**

MAUS - Machine-Automated Support for Software Management Plans

Tuesday 25 February 2025 17:15 (1 hour)

Data are now recognised as an essential research output. Data Management Plans (DMPs) have therefore become an integral part of research project planning, and are usually required by funding organisations. Research software (ranging from data-specific scripts to standalone software products) plays a crucial role in the reproducibility of scientific results, and, similar to research data, is gaining growing recognition as a research output in itself.

The creation of research software can be a major project that requires good planning and management. For example, the necessary infrastructure (software dependencies and hardware requirements such as computing power) must be addressed, as well as the human resources needed to develop and maintain the software and write its documentation. Software Management Plans (SMPs) document all these requirements, and thus improve software quality and reusability. This is not only useful for the research group producing the software, but also for those who use or contribute to the software during and after the project runtime. The Research Data Management Organiser (RDMO) is a well-established tool among the research community for creating such DMPs and SMPs. It provides specific question catalogues from the main funding organisations, addressing the important aspects which need to be considered when planning a software project.

In order to avoid redundancy, the structured information in an SMP should be reusable, for example by being shareable with other tools, information sources and repositories, such as GitHub/GitLab. In our project “Machine-Automated Support for Software Management Plans” (MAUS), we plan to create plugins for RDMO that will enable SMPs to be machine-readable and -actionable.

Our aim is to improve RDMO as a planning tool for research software engineers like you. Therefore, we will start the workshop with a short introduction to SMPs and the MAUS project, giving first proposals for improvements. Then we are eager to hear your comments on this approach, your demands, wishes and ideas, and to discuss with you which features and interfaces we should implement.

I want to participate in the youngRSE prize

no

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