An approach for building an automated scientific service

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With larger quantities of data being collected now than ever before, there is a growing requirement for automated processing of scientific data. This poster focuses on automating routine processes that require minimal to no user input.

We outline the requirements of a software service to handle automated processing of data and provide a possible approach to building such a system. These requirements include processing triggers, data pipelining, error handling and the capturing, storing and display of results. In addition we suggest software tools, frameworks and methodologies that can be used to implement an automated system and supporting monitoring and test framework.