7th Workshop on Collaborative Scientific Software Development

29 April - 10 May 2019
Trieste, Italy

Writing software has become central to research in many fields of science. This school aims to give early-career scientists an introduction to a variety of topics that help them to write efficient, clean, maintainable and long-lived code that is useful beyond solving an immediate problem. In a mixture of talks and many hands-on sessions, the focus lies on showing best practices and building fundamental skills in creating, extending and collaborating on modular and reusable software.

Topics:

- Python / shell scripts as glue code
- Mixing programming languages
- Introduction to computer architectures and software optimization
- Modular, reusable software design
- Effective collaborative development with multiple co-authors
- Version control and release cycles
- Automated testing frameworks
- Structured documentation
- Systematic debugging
- Management of open source scientific packages
- Continuous integration & deployment
- Conversational development

Directors:

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Lecturers:

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How to apply:

Online application:
http://indico.ictp.it/event/8654/

Participants are expected to have some experience in a programming language, this course is not suitable for beginners in programming.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

31 January 2019