10th Workshop on Collaborative Scientific Software Development and Management of Open Source Scientific Packages

6 - 17 November 2023
An ICTP Meeting
Trieste, Italy

ICTP

Further information:
http://indico.ictp.it/event/10228
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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
• 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
• Management of open source scientific packages
• Continuous integration & deployment
• Visualisation as a development tool
• Conversational development

Prerequisites:

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

Directors:

A. CORBETTA, Eindhoven University of Technology, The Netherlands
I. GIROTTO, ICTP, Trieste, Italy
D. GRELLSCHEID, University of Bergen, Norway

Local Organiser:

I. GIROTTO, ICTP, Trieste, Italy

Lecturers:

A. CORBETTA, Eindhoven University of Technology, The Netherlands
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A. FARNUDI, École Normale Supérieure de Lyon, France
L. GARRISON, University of Bergen, Norway
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How to apply:

Online application:
http://indico.ictp.it/event/10228/

Female scientists are encouraged to apply.

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:

10 August 2023

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