The ninth edition of the INFN International School on "Architectures, tools
and methodologies for developing efficient large scale scientific computing applications -
ESC17"
will be held in Bertinoro (Italy) from the 23rd to the 28th October 2017.

The school is mostly targeted to PhD students, post-docs and young researchers
who are actively involved with the development of scientific applications and systems.
Familiarity and experience with basic concepts of modern OO languages,
in particular with C++ language, are desirable prerequisites to attend the school.

The program of this year is structured along two main tracks:

The basics of efficient programming:
New processor architectures
Efficient floating point computation
Tools and methodologies for improving performance
Efficient exploitation of the C++ language
Managing memory usage
Parallel programming for scientific applications:
Introduction, OpenMP programming
GPU architectures and heterogeneous programming
Effective vectorization
Introduction to OpenCL and CUDA
Cluster computing

Lectures will be interspersed with tutorial and practical sessions,
providing opportunities for direct applications of optimization tools
and technologies as well as for interactions among students, lecturers and tutors.

Detailed agenda and further information to apply to ESC17
are available on the school web site

https://web.infn.it/esc17/

The deadline for application is: 15 September 2017.

Mauro Morandin
On behalf of the International Scientific Committee