

# 27<sup>th</sup> Summer School on Parallel Computing

Bologna, 14-25 May 2018

	Monday	Tuesday	Wednesday	Thursday	Friday
9.30 10.50	Introduction to HPC -1 (AE)	MPI Parallel-1 Programming (NS+MC)	MPI Parallel Programming (MC+NS)	Code Optimization-1 (AE,PB,EP)	Code development with git (SB,EP)
	Break		Visits to Cineca Machine Room		Break
11.10 13.00	Introduction to HPC - 2 (AE)	CINECA HPC Programming Environment (AM)	MPI (MC+NS)	Hands-on	Hands-on
	Lunch				
14.30 16.20	Software Engineering for HPC (CINI)	MPI Programming-2 (MC+MG)	MPI Parallel Programming	Code Optimization-2	Debugging strategy and tools (CC,AE)
	Break				
16.40 17.30	Software Engineering for HPC (CINI)	Hands-on	Hands-on	Hands-on	Hands-on

	Monday	Tuesday	Wednesday	Thursday	Friday
9.30 10.50	OpenMP-1 Programming (FA,PB)	Hybrid Programming: MPI+OpenMP (AM,CP)	Profiling and performance tuning (EP,AE)	GPU programming (LF,EP)	Introduction to scientific libraries (MG,SB)
	Break				
11.10 13.00	Hands-on Session	Hands-on	Hands-on	Hands-on	Hands-on
	Lunch				
14.30 16.20	OpenMP-2 Programming (FA,pB)	Hands-on	MPI with Python (NS,MC)	GPU programming- 2	Visualisation (RCM+paraview,LC)
	Break				
16.40 17.30	Hands-on Session:	Hands-on	Hands-on	Hands-on	FREE

MG=Massimiliano Guarrasi, FA=Fabio Affinito, AE=Andrew Emerson, AM=Alessandro Marani, PB=Pietro Bonfà, MC=Mirko Cestari, EP=Eric Pascolo, NS=Nicola Spallanzani, CP=Cristiano Padrin, LC=Luigi Calori, SB=Simone Bna', CC=Cristiano Calonaci, LF=Luca Ferraro, CINI= Consorzio CINI (Consorzio interuniversitario Nazionale per l'Informatica)