PyCOMPSs

(Workshop)

Rosa Ma. Badia, Director of the Workflows and Distributed Computing research group, Barcelona Supercomputing Center, BSC

***Abstract**: PyCOMSs is a task-based programming model developed by the BSC that enables the parallel execution of sequential Python applications in distributed computing platforms. PyCOMPSs can be used to parallelize applications written entirely in Python, and also for the development of workflows that involve calls to external binaries (including MPI ones). The dislib is a machine learning library parallelized with PyCOMPSs that follows the scikit-learn syntax. The tutorial will focus in the use of PyCOMPSs in the RES supercomputers through examples, including a hands-on in MareNostrum 4. One of the exercises will be based in the dislib.*

Bio: She holds a PhD from the UPC (1994). She is a Scientific Researcher at the Spanish National Research Council (CSIC). She graduated on Computer Science at the Facultat d' Informàtica de Barcelona (UPC, 1989). She was lecturing and doing research at the Computer Architecture Department (DAC) at the UPC from 1989 to 2008, where she held an Associate Professor position from 1997 to 2008; she is currently part-time lecturing again at the same department.