[Deep-Learning and HPC](#)

Deep Learning methods and scalability by using Supercomputing platforms.

Summary

This research line aims to explore the future of computing through critical challenges in areas such as Deep Learning, Big Data, Cloud Computing, High Performance Computing and Sustainable Computing, in supercomputing platforms.

Objectives

- The group is conducting research on intelligent resource management policies and mixes our extended experience in High Performance Computing with Advanced Analytics fields.
- In these research fields the team produces top research publications as well as software components and resource management policies that can be applied at middleware level in order to improve their adaptability, efficiency and productivity.
- The group targets execution platforms composed of high-productivity heterogeneous multi-core systems with accelerators and advanced storage architectures deployed in large-scale distributed environments.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación