Supercomputing for Artificial Intelligence

We are doing basic research in a wide range of Artificial Intelligence areas such as Deep Learning, Probabilistic Graphical Models and Reinforcement Learning, using Supercomputing platforms.

Summary

The research group aims to carry out research that enables the interaction across many different disciplines from algorithms to infrastructure. The hope is, that cross pollination will accelerate progress towards Artificial Intelligence using advanced Supercomputing technologies.

Objectives

We are doing basic research in a wide range of Artificial Intelligence areas such as Deep Learning, Probabilistic Graphical Models and Reinforcement Learning, using Supercomputing platforms.

Research on the best practices for production systems based in Deep Learning are proposed. At this moment we are providing solutions to industry for document classification, image segmentation, text classification and distributed training.
In addition, we are collaborating in the organization of research events in the area and disseminating these concepts through the teaching of university courses and outreach activities.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación