Deep Learning and Artificial Intelligence with Supercomputing

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 Deep Learning, and Artificial Intelligence in general, 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 dissemination activities.