

”Reti neurali” Introductory courses (offered also by Computer Sciences)

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Calendario: 29,30 settembre 2008 e 3,7,9 ottobre 2008, dalle 10.00 alle 12.00. Aula 2BC/30 (Torre Archimede, via Trieste 63)

Programma del corso:

- Introduction to the physics of neurons and build-up of a physical model of neural network. Hebb rule and Hopfield model. Associative memory.
- Dynamics of the Hopfield model: parallel (synchronous) and sequential (asynchronous) dynamics.
- One step recognition in parallel dynamics. Introduction to the statistical mechanics of the Hopfield model: the replica method and the thermodynamics of recognition.