

COMP 549. BRAIN-INSPIRED ARTIFICIAL INTELLIGENCE.

Credits: 3

Offered by: Computer Science (Faculty of Science)

This course is not offered this catalogue year.

Description

Overview of the influence of neuroscience and psychology on Artificial Intelligence (AI). Historical topics: perceptrons, the PDP framework, Hopfield nets, Boltzmann and Helmholtz machines, and the behaviourist origins of reinforcement learning. Modern topics: deep learning, attention, memory and consciousness. Emphasis on understanding the interdisciplinary foundations of modern AI.

- Prerequisites: MATH 222, MATH 223, and MATH 323; or equivalents.
- Restrictions: Not open to students who have taken COMP 596 when the topic was "Brain-Inspired Artificial Intelligence".

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