Computer Science

CS 548  Models of Cognitive Processes  credit: 4 hours.
Formal models and concepts in automated cognition; integrating machine learning and prior knowledge; current approaches and
detailed analyses of the role of reasoning in the learning process; computational complexity and fundamental tradeoffs between
expressiveness and tractability; implications for state-of-the-art artificial intelligence areas such as automated planning, the semantic
web, relational learning, structured prediction, latent models, structure learning, theory formation, etc.; philosophical and psychological
aspects of integrating analytic and empirical evidence. Same as ECE 548. Prerequisite: CS 440 or CS 446.

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Restricted to Graduate - Urbana-Champaign.