Department: Electrical and Computer Engineering

EEE 4872 — Introduction to Artificial Intelligence


Course (Catalog) Description: Basic artificial intelligence (AI) techniques of search, machine learning, natural language processing, robotics, and image processing. Potential/current limitations are analyzed; human interaction in a decision-making environment.

Prerequisite: EEL4021 and COP4530


Course Objectives:
1. Identify problems where AI techniques are applicable.
2. Apply selected basic AI techniques to these problems (i.e. a project).
3. Judge the applicability of more advanced techniques to these problems.
4. Design and build systems that both act intelligently and learn experientially.

Topics covered:
1. Introduction to AI.
2. Search and planning.
3. Representing knowledge and reasoning.
4. Machine Learning, both supervised and unsupervised.
5. Probability, Markov models and distributional filtering.
6. Decision making.
8. Clustering.

Class Schedule: Three 50 minute or two 75 minute lectures per week (3 credit hours).

Subject Area: Engineering

Significant Design: No

Relationship to Assessed ABET Student Outcomes: None

Last Updated by: R.J. Perry Date: 4/30/2021