Assignment #10 *** O P T I O N A L ***

No late assignments accepted!

ECE449, Intelligent Systems Engineering

Fall 2019

Department of Electrical and Computer Engineering, University of Alberta

Dr. Petr Musilek

Points: 10
Due: Thursday, December 5, 2019, 3:30 PM,
submitted through eClass in PDF format !!!!!!!!!
(this can be a scan of handwritten assignment,
e.g. using CamScanner app on your phone)

Note: Best 9 out of 10 assignment marks will be
used to determine your overall assignment class;
i.e. submission of this assignment is optional

Student Name:

ID Number:

1. [5 points] Based on the pseudocode from slide 31 of slide set 19 "Swarm Intelligence", develop a flow chart of the ant colony optimization (ACO) algorithm for the travelling salesman problem.

2. [5 points] Using Internet search, find five different engineering applications of swarm intelligence (ACO, PSO or other algorithms); provide references (link or article citation) and briefly describe each case.