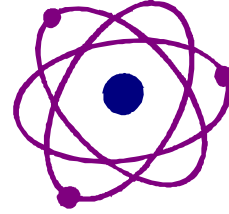


ECEN 5773 Intelligent System
Section: 2; CID: 35391
Fall 1998



Time: Monday/Wednesday 5:00-6:15 PM

Place: Engineering South 211A

References: *Neural Network Design*, Hagan, Demuth and Beale
PWS, 1996
Introduction to Artificial Neural Systems, Zurada
PWS, 1992
Fuzzy Set Theory, Klir and Folger
Prentice-Hall, 1988
Fuzzy Engineering, Kosko
Prentice-Hall, 1997
Genetic Algorithms in Search, Optimization & Learning, Goldberg
Addison-Wesley, 1989
Reinforcement Learning, Sutton and Barto
MIT, 1998

Instructor: Professor Gary G. Yen,
<http://www.okstate.edu/elec-engr/faculty/yen>
744-7743, gyen@master.ceat.okstate.edu
Engineering South 202D
Office Hours: Tuesday/Thursday 2:00-5:00 PM
or by appointment only

Objectives: An overview of emerging computational intelligence tools and hand-on working knowledge with specific application domains

- neural network- RBF network; Hopfield network; associative memory; combinatorial optimization;
- fuzzy logic- fuzzy set; rule base; inference engine;
- evolutionary computation- genetic algorithm; genetic programming; evolutionary programming; artificial life;
- reinforcement learning- nonassociative; associative and sequential;

<u>Grading:</u>	Homework Assignments	20%
	Literature Search and Survey	30%
	Design Project with Oral Presentation	50%