CSCI 8100: Special Topics – Computational Intelligence
Fall 2009

Project 2: Hybrid Soft Computing Classifier
Due Thursday-October 22\textsuperscript{nd}

For this project you will design and implement a software application that combines an evolutionary computing technique, such as genetic algorithms (GA), or particle swarm optimization (PSO) with artificial neural network (ANN) to create a \textbf{hybrid soft computing classifier} and apply it to real world application of your choice. You will need to identify the application domain and data sources for your project. You can develop original code from scratch and/or adapt open source code as you deem necessary. Please refer to the course web site, located at: \url{http://cs.armstrong.edu/saad/csci8100/index.html} for pointers to related online resources.

Your project deliverables should adhere to the following timeline:

- Thursday 10/1: Choice of Application and Data Source(s)
- Tuesday 10/6: Progress Report: Basic ANN Code
- Thursday 10/8: Progress Report: Training Results of ANN
- Tuesday 10/13: Progress Report: Combining EA with ANN (1/2)
- Thursday 10/15: Progress Report: Combining EA with ANN (2/2)
- Tuesday 10/20:
  - Completing the implementation
  - Results: Tables/Graphs
  - Report sections/table of content and references list.

\textbf{Total Grade: 100 points}

\textbf{Breakdown}

- Final Report 20\%
- Software 60\%
- Weekly Progress Reports 20\%