CSCI 8100: Special Topics – Computational Intelligence
Fall 2009

Term Project:
Hybrid Soft Computing Classifier
Software and Term Paper
Due Thursday-December 3rd, 2009

For your term project you are required to complete the software you developed for your three class projects that resulted in a hybrid soft computing classifier that integrates: evolutionary computing (such as genetic algorithms), neural networks, and fuzzy logic, as follows:

• your software should provide a clear API that can be the basis for reuse by other software developers,
• you should provide a class diagram, and
• your software and corresponding API should be well documented.

You should also consider submitting your software to an open source repository that would benefit from hybrid soft computing algorithms.

Your project report should be structured as technical paper similar to the numerous papers we covered in class. It should include figures, block diagrams and tables that would clearly convey the algorithms and hybrid soft computing application you developed and your results. It should also include a section that gives a critical discussion of your results, a section that describes future extensions to your application, and a reference section that lists papers and other resources (online or other) that are directly relevant to your work. You should also identify three candidate publication avenues for your technical report (online or other), along with any deadlines to do so if applicable.

Please refer to the course web site, located at:
http://cs.armstrong.edu/saad/csci8100/index.html
for pointers to related online resources.

Your project deliverables should adhere to the following timeline:

• Thursday 11/19: Progress Report
• Tuesday 11/24: Discussion of Term project
• Thursday 11/17: Thanksgiving Break
• Tuesday 12/1: Progress Report
• Thursday 12/3: Progress Report

Total Grade: 100 points
Software/API/Documentation 60%
Final Report 30%
Weekly Progress Reports 10%