Research Paper Assignment (15%)

Artificial Intelligence just like any other field of science progresses via publication of novel research results in professional journals. Such publications usually come in one of two flavors. Either results of novel experiments are reported or comprehensive surveys of existing literature summarizing the state of the art in the field and providing non-trivial recommendations for tool selection, algorithm choice, behavioral guidelines, etc. are published. As part of your CECS545 course you are required to write a publishable quality paper of the research type. *The topic of your paper is the work you have completed for Project 6*. Dr. Yampolskiy will work closely with you as a mentor/editor/co-author to get your paper to be scientifically sound and professionally written. A successful student will see his/her work published in a peer-reviewed journal or conference, which is a great asset to the CVs of those seeking employment or wishing to continue with graduate school.

Your paper must:

- Match publication format requirements (length, font, margins, etc.) of a typical IEEE journal
- Cite at least 20 peer-reviewed conference or journal or workshop papers (websites are ok, but keep the number of such sources low)
- Include tables, figures, graphs illustrating the results of your experiments
- Be entirely your work. Be careful with potential plagiarism; never copy any text from any source verbatim. Always re-write everything in your own words and cite the original source of information.

Hints:

- Use EndNote as your bibliography management software
- Submit your paper as Blackboard upload in MS Word format
- See template of the research paper for additional guidance

Deadlines: There are two deadlines for the research paper. First one is for the draft of the paper which may not have all the experimental results but should have all the other sections completed (33% of the total paper grade).

The second deadline is for the final draft of your completed paper which is worth 67% of your total paper grade. Final draft is due on the last day of lectures. (In addition to Blackboard upload please submit a hardcopy of your paper in class)

This is the Title of the Paper

Name of Author One
Computer Engineering and Computer Science
Speed School of Engineering
University of Louisville, USA
NameOne@louisville.edu

ABSTRACT
Describe what you did, why you did it, and how well it worked in about 150 words…

1. **Introduction** (Assume the reader knows nothing about what the problem is)

2. **Prior work (**Literature Review)
   List papers about WoC, Swarm intelligence, NP-Completeness, etc

3. **Proposed Approach** (Algorithm you are using for this work)

4. **Experimental Results** (How well did the algorithm perform overall and relatively to other approaches from the literature.

   4.1 Data (Describe the data you used).
   4.2 Results (Include lots of figures and tables.)

5. **Conclusions** (Was your approach a success? How can it be improved? What are your future research plans?)

6. **Acknowledgements** (Did anyone help you?)

7. **References** (Cite all the relevant classical literature in the field, everything you looked at in your literature review, etc. Make sure you have a lot of citations and many of them refer to papers published in the last couple of years.)