Administrativa

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Administrative (1)

Course Name:
Soft Computing
Course Number:
graduate CSCI 6962 section 01
Credit-hours:
3
Schedule:
Tuesday 6pm-9pm
Lecture Room:
Ricketts 212

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Course web site:
http://www.cs.rpi.edu/courses/fall01/soft-computing
Instructor Names:
Kai Goebel
Bill Cheetham
Instructor Email:
goebel@cs.rpi.edu
cheetham@cs.rpi.edu
(* Preferred and fastest communication medium ***)**
Instructor Websites:
www.cs.rpi.edu/~goebel www.cs.rpi.edu/~cheetham

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Instructor Phone:
Office Voice:
Kai: (518) 387-4194
Bill: (518) 387-5222
Office Fax: (518) 387-6104
Office hours:
by appointment, before class on Tue 5pm
(official office: Amos Eaton 218)
T.A. Name:
tba?

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Grading:
65% based on homework (mostly programming) assignments.
30% based on research project.
5% based on paper presentation
Prerequisites:
Official course prerequisite: None
Implicit prerequisites:
Proficiency in some High Level Language
Access to matlab
Past experience: need to be at least upper division undergrad to get the most out of this course

Integrity Policy

See our web site (standard RPI policy)
In particular,
You may
- discuss approaches to the homework assignments.

You must not
- give someone else the exact answer to a homework question.
- show or copy the code or write-up.

We will
- find out – it's awkward for everybody
- give you a failing grade
- report cases of dishonesty.

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Textbooks:

Required

"Neuro-Fuzzy and Soft Computing"
J.-S.R. Jang, C.-T. Sun, E. Mizutani;
Prentice Hall, 1997, ISBN 0-13-261066-3

"Applying Case-Based Reasoning",
I. Watson;
Morgan Kaufman Publishers, 1997, ISBN 1-55860-462-6

Optional

"Essential MATLAB for Scientists and Engineers"
B. D. Hahn;
John Wiley & Sons, 1997, ISBN 0-470-25013 5

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Final Project:

Imagine that you are writing a paper for a conference proceedings: you have a maximum of 8 pages

*** References and appendices not included in the page count.**

*** point size 12 pt**

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Grade Assignment:

Composite score using 7 weighted parameters.

Parameters:

- **Problem Originality/Description (domain, scope)**
- **Solution Originality (needs to contain some SC)**
- **Solution Difficulty (Non-trivial)**
- **Solution Structure (Architecture)**
- **Solution Correctness (Compare against specs. If it does not work, explain why)**
- **Overall Document Organization (legibility)**
- **Presentation**

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Example Structure Final Project

- **Abstract (Executive Summary)**
- **Problem description (what, why, specs, val. criteria)**
- **Related work (who, how)**
- **Solution Description (how does it work, assumptions, architecture)**
- **Solution Analysis (of computer runs)**
- **Post-mortem Remarks (how should it work?)**
- **Conclusions and Poss. Future Work (what's next?)**
- **References**
- **Appendix: Source code and sample runs**

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Project Proposal

Submit 1 page with:

- **Problem Description**
- **Data Source**
- **Assumptions**
- **Proposed Solution**
- **Proposed Validation**

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last slide

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