Administrativa

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RPI/GE CRD
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Administrativa (1)

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

Administrativa (2)

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

Administrativa (3)

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;
  - "Applying Case-Based Reasoning"
    - I. Watson;
- **Optional**
  - "Essential MATLAB for Scientists and Engineers"
    - B. D. Hahn;

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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

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

Project Proposal

Submit 1 page with:
- Problem Description
- Data Source
- Assumptions
- Proposed Solution
- Proposed Validation

last slide