Administrativa

Kai Goebel
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RPI/GE Global Research

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Administrativa (1)

1 Course Name:
   Soft Computing
1 Course Number:
   CSCI-6967, 4962 Soft Computing
1 Credit-hours:
   3 (4)
1 Schedule:
   Tuesday 6pm-8:50pm
1 Lecture Room:
   LOW 3112
Administrativa (2)

1. Course web site:
   http://www.cs.rpi.edu/courses/fall03/soft

1. Instructor Names:
   Kai Goebel
   Bill Cheetham

1. Instructor Email:
   goebel@cs.rpi.edu
   cheetham@cs.rpi.edu

(*** Preferred and fastest communication medium ***)

1. Instructor Websites:
   www.cs.rpi.edu/~goebel
   www.cs.rpi.edu/~cheetham

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1. Instructor Phone:
   Office Voice:
   1. Kai: (518) 387-4194
   1. Bill: (518) 387-5222
   Office Fax: (518) 387-6104

1. Office hours:
   by appointment, before class on Tue 5:30pm

1. T.A.:
   ?
Administrativa (4)

1 Grading:
   – 65% based on homework (mostly programming) assignments.
   – 30% based on research project.
   – 5% based on paper presentation

1 Prerequisites:
   – Official course prerequisite: None

1 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

1 See our web site (standard RPI policy)

1 In particular, you may
   – discuss approaches to the homework assignments.

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

1 We will
   – find out – it’s awkward for everybody
   – give you a failing grade
   – report cases of dishonesty.
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1 Textbooks:

1 Required

“Neuro-Fuzzy and Soft Computing”
J.-S.R. Jang, C.-T. Sun, E. Mizutani;

“Applying Case-Based Reasoning”
I. Watson;

1 Optional

“Essential MATLAB for Scientists and Engineers”

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1 Final Project:

1 Imagine that you are writing a paper for a conference proceedings
   – 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:

1. Problem Description
2. Data Source
3. Assumptions
4. Proposed Solution
5. Proposed Validation