

CS504/ECE504/ME578 Neural Networks Design
Spring 2008, Instructor: Dr. Milos Manic, <http://husky.if.uidaho.edu/ee578s08/>
Class policy

- Course outline:** **Course title: ECE 578 Neural Network Design (3 cr)**
Topics: Same as CS578 & ME 578 & Neuroscience. Introduction to neural networks and problems that can be solved by their application; introduction of basic neural network architectures; learning rules are developed for training these architectures to perform useful functions; various training techniques employing the learning rules discussed and applied; neural networks used to solve pattern recognition and control system problems. Prereq: perm.
This course was offered in S07, S06, S05, and F03 (see <http://husky.if.uidaho.edu>)
To be offered: Spring 2008 in Idaho Falls (live), Moscow (compressed video), on Blackboard/WebCT, and on tapes/dvds. <http://husky.if.uidaho.edu/ee578s08/>
Credits: 3 credit course
- Schedule (tentative):** Tue/Thu, 1:30pm–2:45pm mdt (2:30–3:45pm pdt)
- Office hours** Tue/Thu, 1:30pm–2:45pm mdt (2:30–3:45pm pdt) (please make an appointment)
(tentative):
- Location:** Live in Idaho Falls (CHE 301), CV in Moscow (room JEB 026), and on tapes/dvds.
- Instructor:** Milos Manic, Ph.D.
University of Idaho
UIIF College of Engineering at IF, UIIF CS Dept
1776 Science Center Drive, TAB Ste. 303,
Idaho Falls, ID 83402;
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- ph. direct: 208.282.7845; fax: 208.282.7950;
email: misko@uidaho.edu
url: <http://www.cs.uidaho.edu/~milosm>
url: <http://husky.if.uidaho.edu>
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- Class web page:** <http://husky.if.uidaho.edu/ee578s08/>
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Tentative Semester Schedule	Jan. 09	Spring 2008 semester begins
	March 4	Exam #1 <i>Single Neuron and Learning</i>
	March 10-14	Spring break
	March 08	Last day to add a course
	April 08	Exam #2 <i>Advanced Learning Algorithm</i>
	April 29	Exam #3 <i>Special NN Architectures and Fuzzy Systems</i>
	Apr 28-May 02	No examination week
	May 05-09	Final examination week
	May 09	Close of spring semester
	May 13	Spring semester grades due

Paper:
 Paper first draft due: Feb 19
 Paper second draft due: March 25
 Paper final submission: April 22
 Paper presentation: week of April 28

Grading system: Two exams, final exam, paper, and homework assignments.

Grading policy & tentative grades::	Homework	35%
	Exams #1, #2, #3	50%
	Paper	15%

- A (90 - 100) %
- B (80 - 89) %
- C (70 - 79) %
- D (50 - 69) %
- F (0 - 49)

Homework assignments: The homework will emphasize the important features of the text and lecture materials, such as: design, simulation and evaluation of specially assigned neural networks. **Homework will be picked up and graded.**

Paper Required paper can have more of a research (theoretical) or more of a project (applicative) flavor. The purpose of the project paper is to demonstrate the ability to apply learned algorithms on real world problems. Research paper is not required but is encouraged.

Exams The exams will be similar to the homework problems. All exams must be taken

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Plagiarism:

Code reuse is encouraged - after all, there is no point in inventing the wheel :). However, if you reuse code, do not forget to properly include reference (& url, if applicable). *If you claim that code is yours and shows up it is not, submitted assignment will be considered as plagiarism, and will be graded with zero points.* Some examples are made or modified by course instructors and officially available on some University of Idaho pages. Such examples are copyrighted and not available for further use.

Computer misuse:

Computer misuse is a felony in the State of Idaho. We will cooperate fully with the FBI, campus IT staff, and local law enforcement if the need arises.
