

# **ECE 6720 FUZZY CONTROL SYSTEMS**

## **Fall 2011**

### **Presentation Assignment**

**Total: 40 pts. (10% of the course grade)**

**Due 3:30pm, Tuesday, October 25, 2011**

You are to review the paper assigned to you from the list given below and give an **approx. 40-minute** presentation using **Power Point** slides. It is recommended that you refer to other sources of information (our Text, or other papers) to provide for an appropriate background for the points of the assigned paper. Use your own words. You must give proper credit to the author(s) of the paper. The presentation must have an outline and a conclusion section, respectively.

The assignment will be made from the list of papers below:

1. Lotfi A. Zadeh: Fuzzy Sets, in Readings in Fuzzy Sets for Intelligent Systems, Dubois, Prade, and Yager (eds.), Morgan Kaufmann, 1993, pp. 27-64 (**up to Page 44**)
2. Lotfi A. Zadeh: The Concept of a Linguistic Variable and its Application to Approximate Reasoning - II, Information Sciences, **8**, 301-357, (1975)
3. M. M. Gupta and J. Qi: Theory of T-norms and Fuzzy Inference Methods, Fuzzy Sets and Systems, **40**, 431-450 (1991)
4. Ronald R. Yager: On Ordered Weighted Averaging Aggregation Operators in Multicriteria Decision Making, in Readings in Fuzzy Sets for Intelligent Systems, Dubois, Prade, and Yager (eds.), Morgan Kaufmann, 1993, pp. 80-87
5. Wyllis Bandler, Ladislav Kohout: Fuzzy Power Sets and Fuzzy Implication Operators, in Readings in Fuzzy Sets for Intelligent Systems, Dubois, Prade, and Yager (eds.), Morgan Kaufmann, 1993, pp. 88-96
6. Masaharu Mizumoto: Pictorial representations of Fuzzy Connectives, Part II: Cases of Compensatory Operators and Self-Dual Operators, Fuzzy Sets and Systems, **32**, 45-79 (1989)
7. Masaharu Mizumoto, Hans-Jurgen Zimmerman: Comparison of Fuzzy Reasoning Methods, Fuzzy Sets and Systems, **8**, 253-283 (1982)
8. Jerzy B. Kiszka: The Influence of Some Fuzzy Implication Operators on the Accuracy of a Fuzzy Model – Part I and Part II, Fuzzy Sets and Systems, **15**, 111-128 and 223-240 (1985)

### **Tasks:**

- a) Make a photocopy of the paper and return the original copy to your course

instructor by September 20, 2011.

- b) You are to turn in a hard copy of Power Point slides at the time of your presentation.

Hints: Use your Text as a primary reference material to review the assigned paper. Further references can be potentially found in Waldo Library (technical journals). You don't have to present every thought of the paper but should state what sections will be omitted. You can skip Proofs of Theorems without losing credit. It will boost your credit if you could add examples of your own to illustrate the points of the paper you will be presenting. Make sure that your slides will be legible.