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https://www.cs.tcd.ie/Khurshid.Ahmad/Teaching.html

FUZZY LOGIC & FUZZY SYSTEMS

The continuous assessment comprises 20% marks of the Course;

You have to find a fuzzy logic product or service; Find documentation related to the product or service product/service description – marketing literature; learned papers relating to the product service – papers in learned journals (*IEEE Transactions on Fuzzy* Systems -

http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=91, Journal of Fuzzy & Intelligent Systems - http://www.iospress.nl/loadtop/load.php?isbn=10641246-,and many other publications listed on http://www.abo.fi/~rfuller/fuzs.html

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- Find out the fuzzy sets, linguistic variables and terms, and membership functions used in the construction of the product or service;
- Build a simulation using MATLAB, for example, of your chosen product service;

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FUZZY LOGIC & FUZZY SYSTEMS

Write a 4 page report (c. 1000 words) describing your experience perhaps along the following structure:

- 1. Introduction:
- 2. Description of product/service;
- 3. Outline fuzzification, composition, inference, de-fuzzification used in the product/service.
- 4. Describe your simulation
- 5. Conclusion: Was the use of fuzzy logic justified;

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The Report is due by 9th January 2014

*For some submissions there may be a 15 minute Presentations of the Report to take place during week beginning 2nd April 2014.

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FUZZY LOGIC & FUZZY SYSTEMS

Hints for Coursework:

Risk Assessment for Chemical Plants

Narendra Mahant (2004). Risk Assessment is Fuzzy Business—Fuzzy Logic Provides the Way to Assess Off-site Risk from Industrial Installations

http://www.bechtel.com/assets/files/PDF/BIP/34936.pdf

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