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SOFTWARE ENGINEERING

CS 487

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Computer Science



Individual Research Paper Description

AI-based Content Generation

- Research the engineering of software systems (bots) which automate the creation of content
 - Compare and contrast content creation across:
 - Code, scholarly works, emails, music, thought, etc.
 - Describe the engineering of the bot (including HCI)
 - Does the bot know if it inserted a defect?
 - Could it be trained to insert defects? (e.g., bad training data)
 - Did it learn to love inserting defects? (e.g., to create mayhem, or possibly to increase revenue from maintenance fees)
 - Examine the risk and propose mitigation
 - How effective is it?, How effective can it become?
 - Liability / accountability (the SW engs?, the bots?, no one?)
 - Should the output be trusted?, how can reliability be assessed?
 - Confidence vs awareness
 - Use a case study (example of a content generator) to illustrate
 - Predict the future

Draft Paper

- Cover page
- Abstract
- Structure (sections and sub-sections)
- Overview of case study
- Draft content for all sections
- Summary of cited sources (at least 3)
- Due June 9th

Final Paper

- Cover page
- Introduction
- Sections and sub-sections to provide flow and readability
- Case study + other examples (properly cite)
- Conclusion (your vision of the future)
- Properly cited sources (at least 3)
- Due June 23rd