

Lecture 0 – Introduction

COMPX234 | Irfan Ahmad | AI | Data Science | Computer Science



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Ppts From Vimal Kumar
Edited by Irfan Ahmad

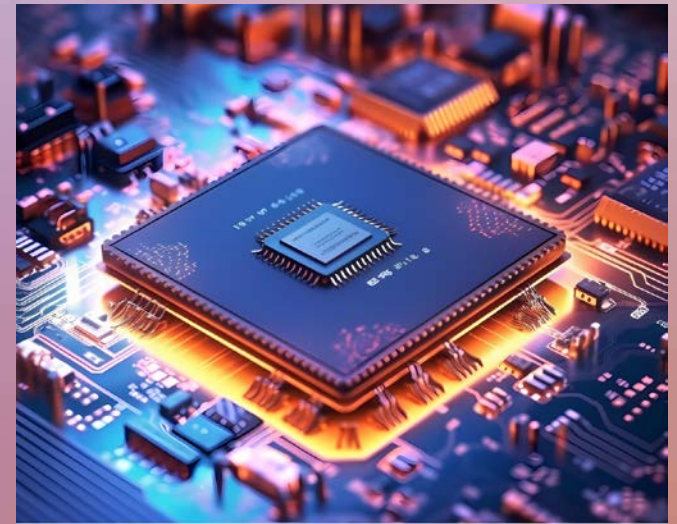
COMPX234

Systems and Networks



Who Am I?

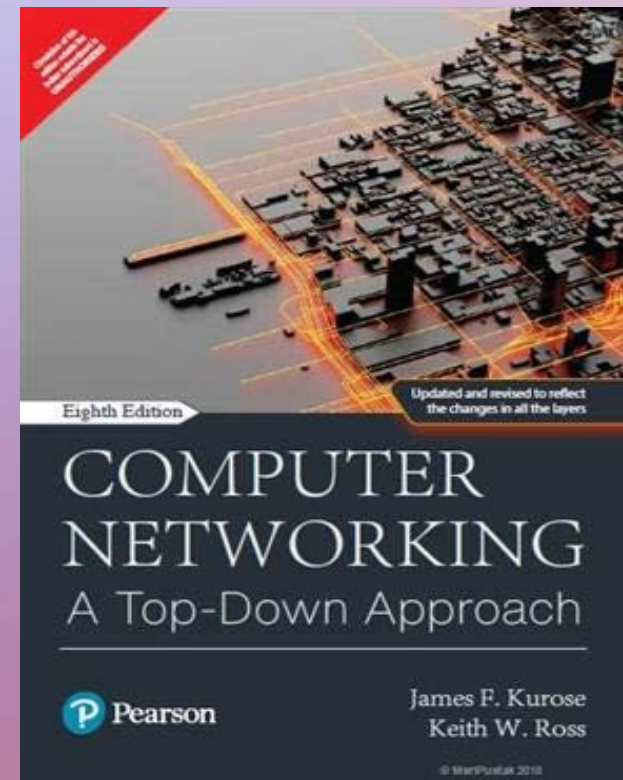
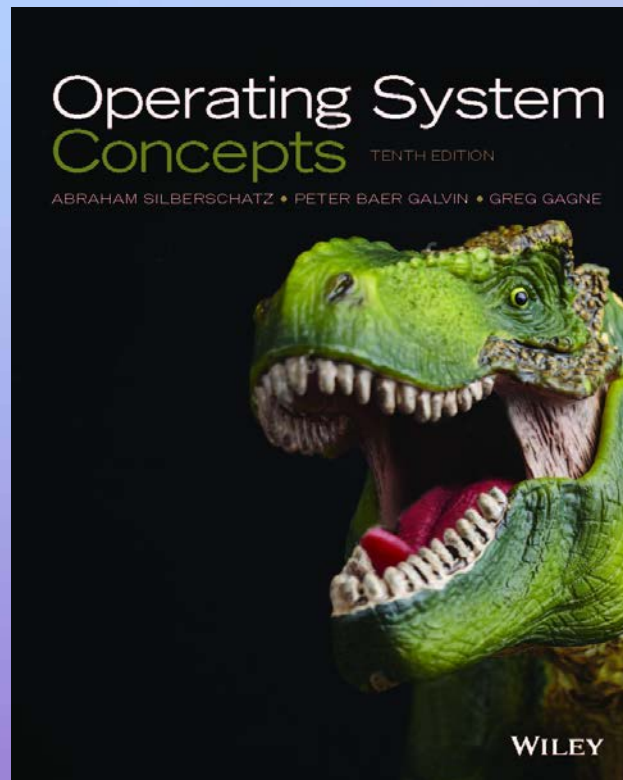
- Dr Irfan Ahmad, Assistant Professor/Lecturer, UoW New Zealand.
- **Research Interests:** Security and Privacy in IoT Devices, Artificial Intelligence (Pattern Mining and Predictive Analytics), Microelectronics and Chaos Theory.
- **Teaching Interests:** Data Science, Machine Learning and Deep Learning, Programming, Network Programming, Cyber Security, and Operating Systems.



- Fundamental concepts of operating systems and networks
 - ▶ Operating System overview
 - ▶ Process and Process Management
 - ▶ Memory Management
 - ▶ File System Management
 - ▶ Networked Systems
 - ▶ Application Protocols
 - ▶ Transport Layer
 - ▶ Network Layer
 - ▶ Link Layer

Recommended Books

- ***Operating System Concepts***, Tenth Edition, Avi Silberschatz, Peter Baer Galvin, Greg Gagne. John Wiley & Sons, Inc. 2018.
- ***Computer Networking: A Top-Down Approach***, 8th Edition. James Kurose, Keith Ross. Pearson, 2020.



Assessment



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□ In-lecture quizzes x10	-	10 marks
□ Test	-	15 marks
□ Assignments x3	-	35 marks
□ Final Exam	-	40 marks



Assignment Marking

- All three assignments are individual assessment items
- Assignment once released should be consistently worked on
- You must use **GitLab to manage your code**
 - ▶ GitLab server, (courses-git.cms.waikato.ac.nz)
 - ▶ You will be asked to provide the link to your repo(s).
 - ▶ Your **commit history** would be used to verify that you consistently worked on your code and used Git.
 - ▶ Assignments that show *all code uploaded at once would not be considered*
 - ▶ You **may be asked** by the instructors and demos *to explain your code*



Class Representative?

- A **Class Representative** is a student who *represents the views of their class* on academic matters to the lecturer, Department and/or School.
- The types of issues a **Class Representative** would usually raise are things that impact on the quality of education and the ability of class members to study effectively, such as
 - ▶ assessment,
 - ▶ access to paper resources,
 - ▶ the quality of tutorials,
 - ▶ papers,
 - ▶ materials and teaching facilities.



Plagiarism

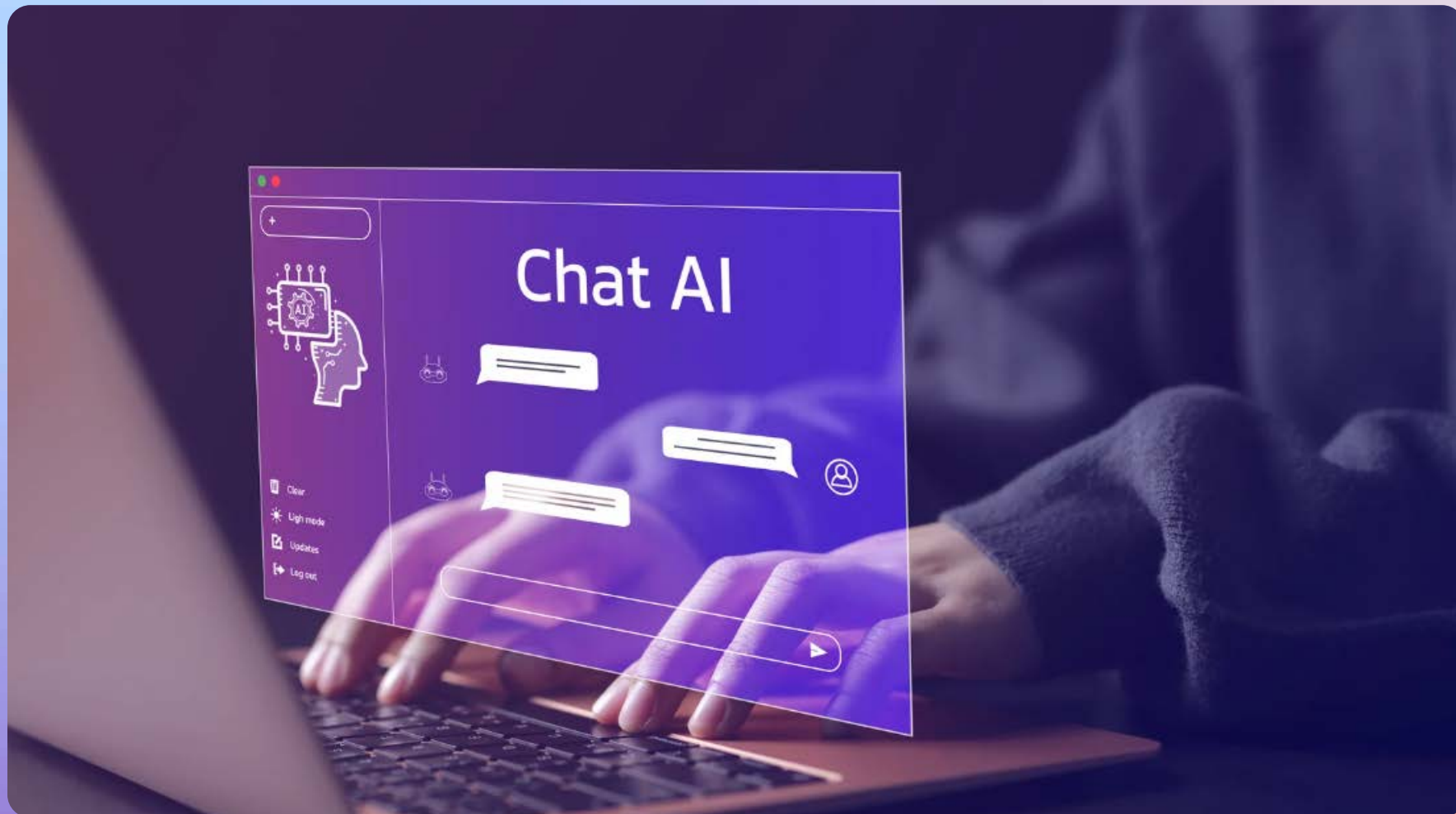


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- Plagiarism means presenting someone else's work as your own
 - copying or paraphrasing of another person's work without acknowledging it as the other person's work through full and accurate referencing;
 - applies to assessment (as defined in the Assessment Regulations) presented through a written, spoken, electronic, broadcasting, visual, performance or other medium.
- Plagiarized work will be reported to Academic Integrity Committee



- Use of AI to write any part of an assessment item is not allowed.



A man in a dark suit is seen from behind, with his hands pressed against his head in a gesture of stress or confusion. He is standing in front of a light-colored, textured wall. The wall is covered with numerous question marks of varying sizes and opacities, some appearing as dark, bold symbols and others as faint, light-colored marks. The overall atmosphere is one of uncertainty and inquiry.

Questions are Welcomed