

Summary

Internet Technologies and Applications

Topics Covered

- Internet Technologies
 - Basics of Computer Networking
 - Background/refresher
 - Example Network Technologies
 - LANs, WANs
 - Wireless Networks
 - Wireless LANs
 - Next Generation Internet
 - IPv6
 - Internet Design Issues
 - Protocols
 - TCP in Detail

Topics Covered

- Internet Applications
 - Searching the Internet
 - Search engines and optimisation
 - Peer-to-peer Applications
 - Napster, Gnutella, Fasttrack, DHTs
 - Internet Privacy
 - Security and anonymous routing
 - Instant Messaging
 - AOL, MSN, Yahoo!, Jabber

Some Themes

- Network Architectures
 - Network components and structure of networks
 - Hierarchical versus flat
 - Centralised versus distributed
 - Client/server versus P2P
- Protocol Design Issues
 - What is a protocol?
 - How do you design/specify a protocol?
- Current and Future Technologies
 - Technologies that are popular today or may be popular in the future