COMP9336/4336 Mobile Data Networking

www.cse.unsw.edu.au/~cs9336 or ~cs4336

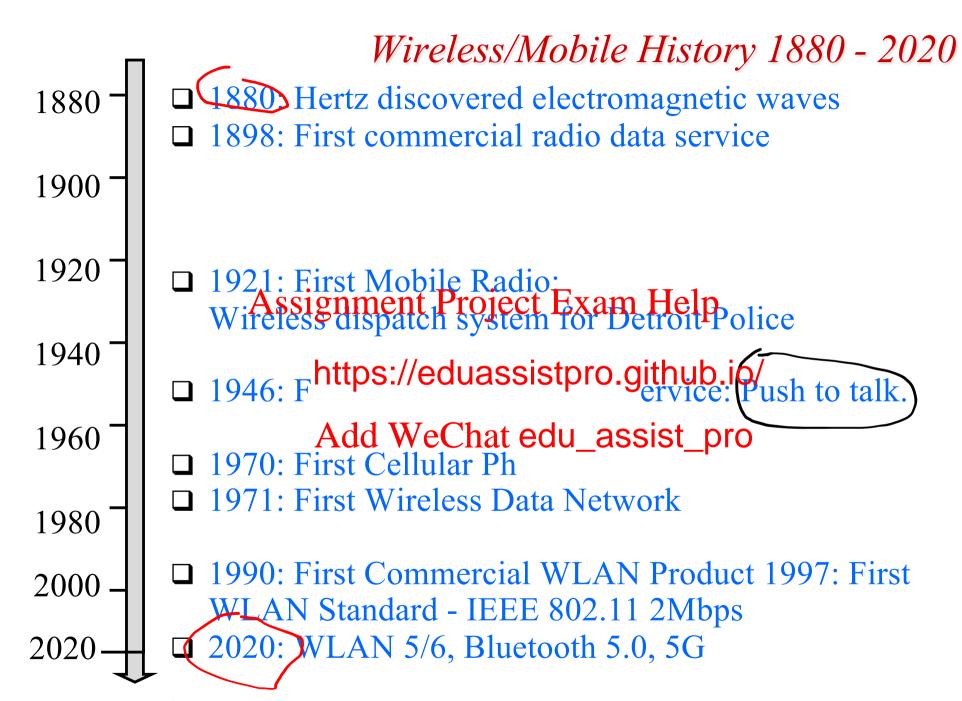
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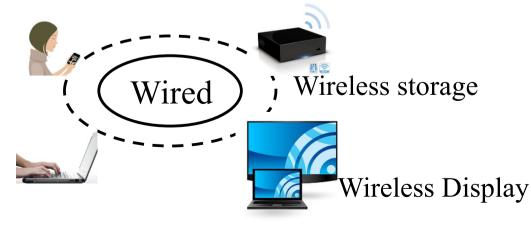
in Mobile Data Networking



Access is all wireless

- Wireless, in the form of WiFi, started in 1999.
 - First it was an option.
 - Now it is standard in all computing devices Assignment Project Exam Help
- Most of the acc ity) is wireless
- Mobile phones, https://eduassistpro.github.io/
 technologies: WiFi Blueteoth edu assist pro wired
 connectivity

 3 most used wite 1855 technologies





- □ US Wireless industry is valued at \$195.5 billion ≥ publishing, agriculture, hotels and lodging, air transportation, and motion picture and recording.
- □ Wireless industry directly/indirectly provides more than 2.6% of all US employmeAtssignment Project Exam Help
- □ Wireless revenue i

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Ref: http://www.ctia.org/your-wireless-life/how-wireless-works/wireless-quick-facts

http://atlantic-acm.com/index.php?option=com_content&view=article&id=557%3Avisual-dataline-us-telecom-wireless-and-wireline-service-revenues-2010-2015&catid=46%3A2010-datalines&Itemid=20

Mobile speed forecast CISCO annual report 2018-2023

- Wi-Fi speed will triple by 2023. Globally, the average Wi-Fi speeds will grow from 30.3 Mbps in 2018 to 92 Mbps by 2023.
- Cellular species signment harojegt by 2023. Heliverage mobile network connectio
 18 and will be 43.9
 Mbps by 2023. https://eduassistpro.github.io/
- The average 5G connection speed w Add WeChat edu_assist_pro

The incredible momentum of WiFi CISCO report

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- Wi-Fi hotspots will be we'Chatfedu_assist_pro 2023. Globally, there will be nearly 6 ublic Wi-Fi hotspots by 2023, up from 169 million hotspots in 2018.
- Wi-Fi6 hotspots will grow 13-fold from 2020 to 2023 and will be 11 percent of all public Wi-Fi hotspots by 2023.

WiFi evolution

CISCO Annual Report 2018-2023

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Mobile growth forecast CISCO annual report 2018-2023

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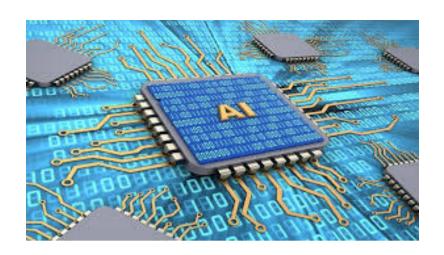
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Other trends New developments

Sensor-aided mobile https://eduassistproguithub.io/

Drone-aided mobile networking

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Programmable wireless environment

- Simultaneous wireless information and power transfer
- Cerahertz wireless networking
- Nanoscale wireless sensor networking



Summary: wireless and mobile trends

- WiEi has grown worldwide in just 15 years and continues to develop in capacity with innovations in PHY and data link layer
- 2. Bluetooth has reac https://eduassistpro.github.io/
- 3. 5th generation of ce ere in 2020 with massive capacity and new features WeChat edu_assist_pro
- 4. Wireless speed growth is following Moore's Law
- 5. Mobile subscriptions are approaching world population
- 6. Many innovative new technologies are being developed to meet the unabated demand in wireless and mobile communications