CPE 432: Computer Architecture and Organization (2)

Computer Technology Trends

Research Project

Objectives

- Understand the technological improvements and the **effects of these improvements** on emerging computers, communication means, and personal mobile devices.

- Understand the **impact of computer engineering solutions** in a global, economic, environmental, and societal context.

- Know computer engineering **contemporary issues**.

Purpose

- An **active contemporary** topic in computer design is selected and announced for each term.

- Survey the technology **trend** and the **state-of-the-art** features.

- Discuss the **effects** of the selected technology in a global, economic, environmental, and societal context.

- Discuss **conclusions** and expected **future** directions.

Procedure

1. **Research** the topic
2. **Take** the assessment (during Quiz 2)

Knowledge Sources

- Technology news: CNN
- Magazines: IEEE and IEEE Computer Society
- The internet, Google, YouTube
- Encyclopedias: Wikipedia
- Scholarly literature search engines: Google Scholar
- Online courses: Coursera
- U of J Library

The University of Jordan Library (library.ju.edu.jo)

- **Horizon Search**: Jordanian Public Universities Network
- **Thesis Search**
- **Electronic Library** (elibrary.ju.edu.jo)
  - Request buying an article
  - EBSCO eBooks
  - ACM Digital Library
  - IEEE Xplore Digital Library
  - Springer Link
  - Science Direct
  - Scopus   (Article and Journal Index)
  - Web of Science   (Article and Journal Index)