CDMA Wireless Standards and Applications

Project Information and Suggestions

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Project information and suggestion

The term project will be an existing or research oriented project related to any topic in the learning objective area
The project MUST be accompanied by a presentation.
Some suggested topics are listed below, but you are by no means limited to these topics. The project can be a literature survey, analysis, and/or simulation.

Ideally, the project should include some original research. However, re deriving a known result from scratch, repeating a simulation experiment, or a literature survey of existing papers is also one.

Details and Deadlines

A one paragraph project proposal is due by seminar 5 (email to nazila@globaltechnologies.biz or hard copy is fine too).

The project proposal should include few lines of description about what you plan to do.

Do not propose an overly ambitious project that cannot be completed by the end of the semester.

The project should be accompanied by a presentation and is due by week 8. You may either hand me the hard copy or email it to me in a readable format.

presentation should be approximately 20minutes.

Some Suggested Project Areas:

- Wireless access techniques.
- 3G CDMA.
- Voice over IP
- Combining voice and data in wireless systems.
- Wideband CDMA.
- Modulation techniques used in wireless communications.
- Coding/spreading trades in CDMA systems
- Smart antennas
- WiFi
- RFID
- Dynamic resource allocation in CDMA

Some Suggested Project Areas (cont.) :

- Handoff algorithms for CDMA cellular systems
- Interference in CDMA systems
- Future of CDMA Wireless communications
- Economic issues of CDMA wireless systems
- Be creative

Style

- APA Basics

Format for the entire paper
Margins are set at 1 inch all around, unless the instructor requests 1 = inches for the left margin to accommodate binding (PMAPA).

- Margins are set at 1-1/2 inches for the left margin and 1 inch at the top, bottom, and right sides The preferred font is 12 point Times New Roman or Courier (PMAPA, p. 285). Arial 12 font is also permitted. The left margin is justified, while the right margin is unjustified (with a ragged edge).

- Everything is double spaced, throughout, even the reference page.
  Insert no extra spaces between paragraphs.

- Each paragraph has an indent of 5 spaces or one <tab>

Style – cont.

- Each page has a number and a page heading (including the cover page, which is page 1) in the upper right corner, located 3 lines from the top of the page. The header function in MSWord can be used to achieve the pagination and the heading throughout.
  Appearance of special pages

  The title page
  The title page is numbered as page 1
  The paper title, student s name, course name, instructor s name, and date are centered on the page
  Several placement formats are acceptable
  The words Running head:, followed by the title of the paper in ALL CAPITALS is required for manuscript transmissions, but not necessarily for student papers (PMAPA, p. 296)
  The Running head is optional

Style – cont.

- **An abstract**
  The abstract should be provided for papers over 5 pages in length, or when required by the instructor.

  The word <Abstract> is centered on the paper
  The abstract should not exceed 120 words
  The first line is not indented
  Spacing on the abstract page is specific to the manual (PMAPA, p. 306;

- **First page of the text**
  The title is stated at the top of the page, centered, using upper case for the first letter of all major words (no bold, italics, underline or quote marks).

Style – cont.

- **Body of the paper**
  Double-spaced throughout
  There is a defined plan for headings, and it is based on the number of levels of heading used (PMAPA, p. 289;)
  There are special rules for block quotes, over 40 words in length see your manual for details
  Works are cited within the paper using a system of the author s last name, the year of the publication and the page number (Covey, 1997, p. 31). (Notice there is a period at the end of the citation, not the end of the example.
  Citation formats and rules begin on page 207 of the PMAPA manual;

  Reference page
  References are placed on a separate page, entitled <References>
  There is a specific format for the listing of each reference item. That format is covered in the PMAPA manual, beginning on page 215; .
  Only items cited in a paper belong on the reference page. Do not include other items read, but not cited.
  Arrange the reference list items in alphabetical order.
  References are double-spaced throughout and are listed with a hanging indent (the first line of each entry is flush left, while subsequent lines are indented 5 spaces).

Style – cont.

- **Electronic sources**
  The APA 4th edition was printed in 1994 and did not have adequate provisions for today's electronic library and web capabilities. There were intermediate patches put forth on the APA web site. These ideas are now captured and complete in the 5th edition. For the most recent information, please refer to the APA web site (http://www.apa.org/).

  Old style:
  Author. Date. Title of the article. Available: http://ourURL.com (2001, August 1)

  New style:
  Author. Date. Title of the article. Retrieved August 1, 2001 from http://ourURL.com