

# Research Paper

TCOM 500: Modern Telecommunications

Prof. B.-P. Paris

Semester Project

Due May 6, 2010

## Assignment

You are to conduct independent research on a Physical Layer technology or system of current interest. Examples of technologies that you may select include, but are not limited to:

- OFDM
- MIMO
- LDPC
- WiMax Physical layer
- 10Gbit/s Ethernet Physical Layer

For the technology or system you select, you are to write a research report that describes the pertinent technical details, applicability, and key benefits it provides. The report should be approximately five pages in length.

## Schedule

The project is to be completed on the following schedule:

**By April 1:** select the technology you plan to research and submit it to me for approval.

**[April 22:]** Progress report; describe in one page the status of your research and identify in detail the resources (i.e., the sources you will be citing) you will be using.

**May 6:** Final report; submit your five-page final report in electronic form by e-mail.

## Honor Code

George Mason University's honor code applies to this project. You are expected to submit original work and clearly identify sources of your information. You may refer to Office for Academic Integrity if you need clarification on avoiding plagiarism. You may also ask me for advice in this matter.

I may use the SafeAssign plagiarism detection and education tool.