TECH 646 Analysis of Research in Industry & Technology
Assignment 4
Research Questions and Hypotheses

Assigned date: Tuesday, September 14, 2010
Due date: Tuesday, Sept. 20, 2010, before 5 PM
Hand-in requirement (Each team submit):
- A MS Word file: research questions and hypotheses, and related references.
- A MS PowerPoint file: 10 minute presentation slide

The main purpose of this assignment include
- Reinforce your knowledge about the fundamental concepts of research and process,
- Get you start thinking about the multidiscipline research project you will undertake throughout the course, and
- To familiarize you with the database search and advanced searches in Appendix 5a and 5b.

This assignment requires that your team
1. Document the used reference, the searched resources, publications, and papers, or articles
2. Develop 4 research questions and hypotheses (two from each student in the team). Be sure to include all references that you used directly to complete the assignment.
3. Prepare a MS PowerPoint slide (about 10 minutes) to present your finding.

Research Questions and Hypotheses from the following suggested topics and areas
- Lean production, Just-in-Time and Inventory Management, Quality, Performance, Process Improvement, New Product Development, Technological Innovation, Cost, Profits
- IT - Microsoft Dynamic, Supply Chain Management, Enterprise Resource Management, Customer Relationship Management, Manufacturing Management System
- E-Commerce, E-Business
- Telecommunications, Broadband, Wireless, RFID
- SmartGrid, Renewable and Alternative Energy, Energy Efficiency, Electric Utilities, Hybrid vehicles, Government Funding
- Global Outsourcing, Collaboration, Open Business Model, Open Innovation

References I
- Appendix 5a - Bibliographic Database Searches, pp. 127-133
- Appendix 5b – Advanced Searches, pp. 134-136

References II

References III
Journals to Consider (through myIPFW Library search)
References IV – Institutions, Governments


Reference V - IEEE