

## SYS/ENM 5350 - Paper Review task – State of the Art

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This assignment requires you to review and evaluate recent academic papers published in the area of simulation modeling.

**Objective:** The purpose of having you to review recent publications is to expose you to applications of discrete-event simulation (DES) modeling in the literature and to ask you to critically evaluate the work of others.

**Requirement:** Perform a literature search and select 2 papers related to a single topic that involves the use of DES simulation as an analysis tool.

**NOTE:** A topic can be either a general area such as transportation, energy, manufacturing systems, etc., OR a more specific area such as highway systems, software processes, etc.

**Task 1:** Prepare a set of PowerPoint slides for each of the 2 papers. That is, one set of slides for Paper #1 another for Paper #2. You will do an in-class presentation (15–20 mins) on only one of the papers.

Your review must answer, but is not limited to, the following questions:

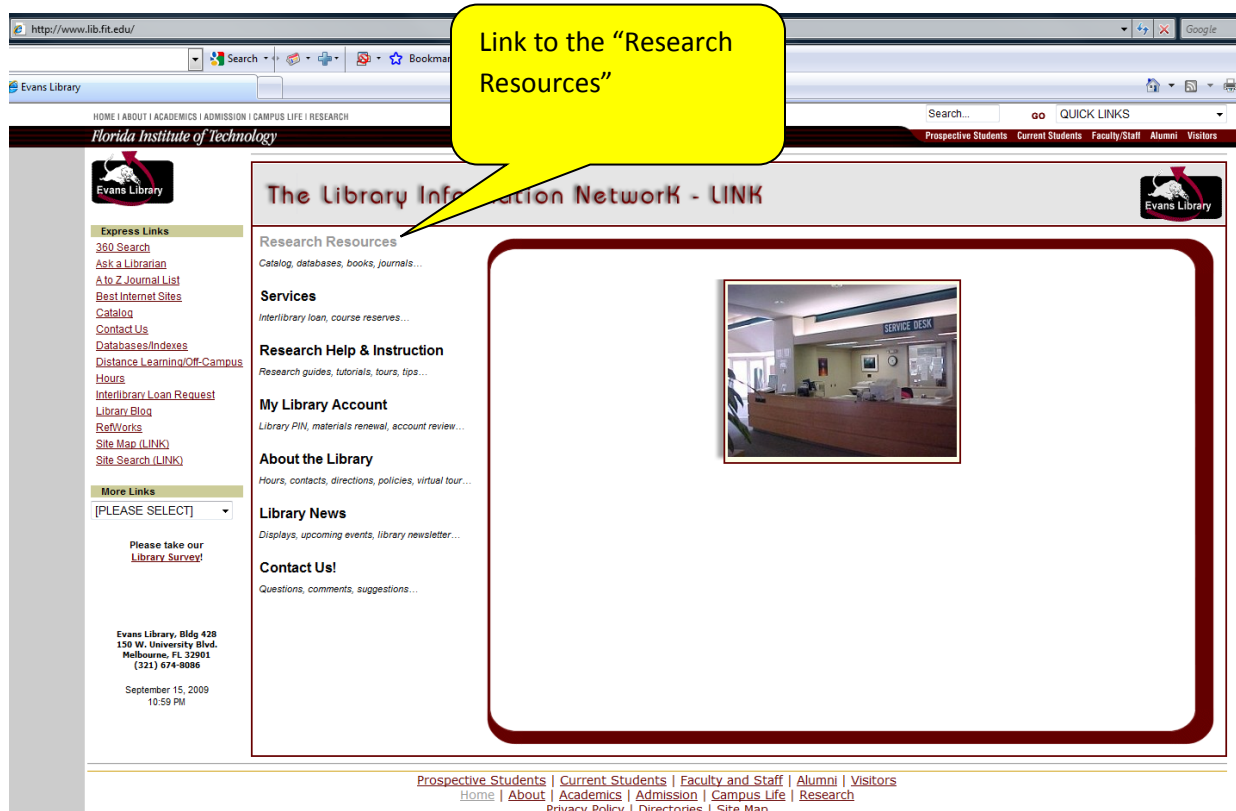
1. What is the primary objective of the simulation model described in this paper?
2. Who is the decision maker that is supported by this model and how do they use the model to assist them in understanding the problem addressed by the simulation?
3. What is (are) the research hypothesis(es)?
4. How is the model validated?
5. In basic terms, what does the model do? Provide a conceptual model/diagram.
6. What are the conclusions of the paper?
7. **Pros and Cons:** What did you like most about this paper? How would you improve the quality of this paper?

**REMEMBER:** A key objective for you to learn from what others have already done!!

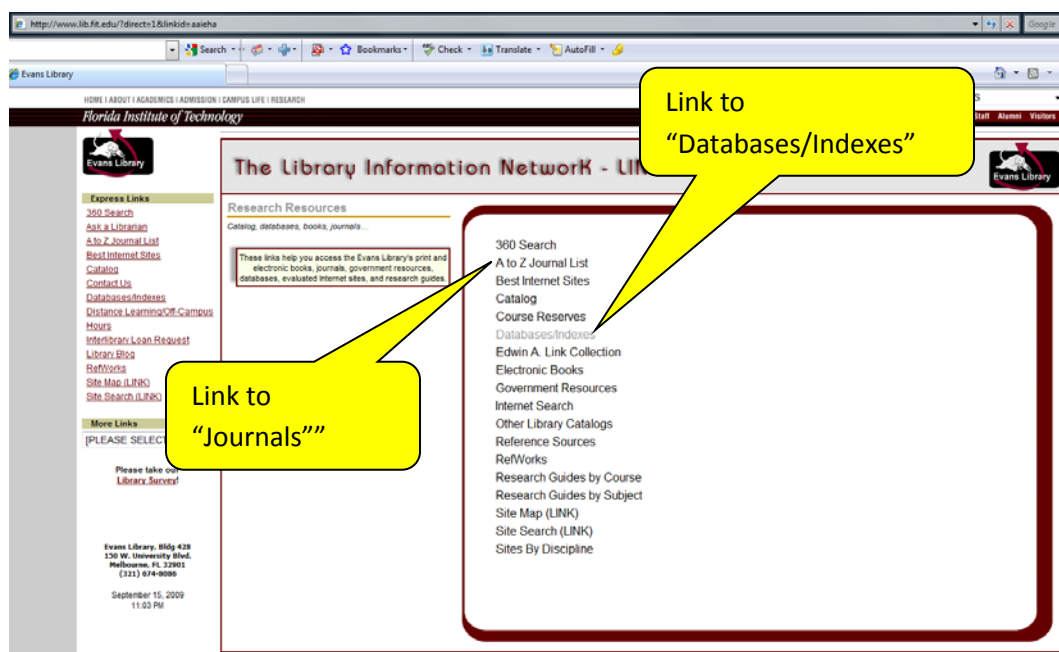
**\*\*Please include the reference to the papers as your final presentation slide.\*\***

**NOTE:** Although I encourage you to select all your references from high-quality journals (e.g., *IEEE Transactions on Engineering Management*), refereed **Academic Proceedings are accepted** (i.e., Conference Papers are accepted!). One example is the “Winter Simulation Conferences” at <http://www.informs-cs.org/wscpapers.html>. Here you can access articles directly. You can also have access to MANY more publications through the FIT’s website. To do this, follow these 3 steps:

**Step #1:** Go to: <http://www.lib.fit.edu/> to see the following window:



**Step #2:** Click on the link to “Research Resources”. You will see the following:



**Step #3:** Select the link to either “Databases/Indexes” or “A to Z Journals”.

Note: A good source of information is the “IEEE/IET Electronic Library”, which is accessed from the “Databases/Indexes” link.

When you select either a *Database* or a *Journal*, you will be asked to enter your TRACKS account information for authentication.