Structural Modeling, Candidate Team Projects

September 7, 2016

Joseph J. Simpson and Mary J. Simpson

There are two events in the first quarter of next year:

- INCOSE IW 2017 – Torrance, CA --- 01/28/17 to 01/31/17
- Conference on Systems Engineering Research – Los Angeles, CA 03/23/17 to 03/25/17

These events provide an opportunity for the structural modeling group members to present the results of the teams effort. Some proposed activities are:

Produce a paper expanding the current work with the augmented model exchange isomorphism (AMEI) to include aspects of the number of objects required to create a valid system.

> Joseph Simpson, Mary Simpson, Thomas Kercheval have signed up to work this paper.

Produce a paper outlining the minimum number of information types necessary to evaluate any reported structural modeling and/or Interpretive Structural Modeling (ISM) analysis activity. Present the results from the analysis of a large number of Design Structure Matrix papers as well as ISM papers.

> Joseph Simpson, Mary Simpson, Kevin Dye have expressed interest in working on this specific activity.

Produce a paper, with associated open source software, that details the architecture of the General Structural Ordering web application. This paper will discuss the mathematical foundation, software architecture and the use of open source software in the creation of this artifact.

> Joseph Simpson and Mary Simpson have expressed an interest in working on this activity.

Produce a paper that outlines the utility associated with the application of the AMEI logical property groups to connect natural language relationships and mathematical relations. Highlight areas where the AMEI produces illogical mathematical outcomes, but may produce significant advantages in processing natural language relationships. Explore Warfield's work in this area.

> Open for participants.

Produce a paper that outlines the last six (6) to twelve (12) months of work accomplished by the structural modeling group and provides plans for next steps.

> Open for participants.