

Triage on Tracks 1 & 2

With some personal opinions

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For Each Thread We Want To Identify

- where solutions already available, if you know where to look
- where problems require significant research
- where there is an opportunity to make useful progress within the timescale of the ontology summit, or not

The list of emerging threads from the introduction is used as the starting point, we can add other ones

Composite System Modeling

- Including parts, components, roles, qua-objects, functions , part replacement and virtual individuals,
 - Clearly engineers are not the only ones interested in this, but presently it is critical in engineering
- Need list a triaged list of references suitable for engineers
- Need to identify issues where we can achieve something beyond literature

System Descriptions For Different Uses, e.g., Requirements & Design

- Anatoly's presentation and references address this
- There is lot of current system engineering discussion concerning formalizing requirements so they can be embedded as models (ontologies) within engineering languages and refining requirements models to design models
 - which may put a different perspective on the problem

Success And Relevance Of Semantic Issues In Engineering

- There has been push back on this topic on the grounds that it was covered last year
- However, marketing ontology is not the same as establishing where there are successes and analysis of failures, and conditions that might drive success
 - this is of great concern to engineering decision makers

Distinctions Between Natural And Artificial Systems

- Unlikely to make significant progress on this in Summit time frame
- An alternative: discussion of rules of engagement in war where circumstances are specified in which it is ok or not ok to kill someone, or mandatory that they be killed
 - Artificial systems are being given and are acting on such rules now, its definitely a current engineering problem
 - It also has legal and moral implications

Semantic Interoperability

- Giancarlo posed ontologies as reference models of consensus to provide bridges
 - While true one needs much more specifics e.g., how to deal with different levels of abstraction, different terminology and different axioms sets
- What is a good triaged literature relevant to solutions, not the problem