Each Live, Virtual, and Constructive (LVC) simulation model has been developed and used with many benefits. When system developers created each simulation model, focused on specific standards to fit to their own respective purposes. Consequently, there have been interoperability issues among simulation models that have many limitations. To be specific, despite various efforts to achieve and maintain complete interoperability in LVC simulation environment, substantial limiting factors have remained in technical and managerial fields. Thus, analyzing and prioritizing limiting factors in LVC simulation is the effective way to solve interoperability problems while saving budget and time.

The purpose of this research is to analyze the priority of limiting factors in LVC simulation interoperability. Based on the identified limiting factors from the literature review, this study performed Analytic Hierarchy Process (AHP) survey to generate weights of experts' judgement for each limiting factor. Following the AHP survey targeted to LVC simulation experts, this researcher suggest the priority of limiting factors that are needed to be focused on as well as recommendations for future research.

Major: Industrial Engineering and Management Systems

Educational Career:
Bachelor's of Weapons Engineering, BS, 2007, Korea Military Academy

Committee in Charge:
Dr. Gene Lee, Chair, Industrial Engineering and Management Systems
Luis Rabelo, Industrial Engineering and Management Systems
Ahmad Elshennawy, Industrial Engineering and Management Systems

Approved for distribution by Dr. Gene Lee, Committee Chair, on April 10, 2015.

The public is welcome to attend.