

PPDO 075
Supporting Ontology based Inter-operability for Engineering, Manufacturing and Health Care

Eswaran Subrahmanian

Research Professor, Institute for Complex Engineered Systems, Carnegie Mellon University, Pittsburgh, PA

John Prevost

Research Programmer, Institute for Complex Engineered Systems, Carnegie Mellon University, Pittsburgh, PA

Christopher Lee

Research Programmer, Institute for Complex Engineered Systems, Carnegie Mellon University, Pittsburgh, PA

Industry Participants

Dr. Ram Sriram, National Institute of Standards, Gaithersburg, MD
Judith Spring, Boeing Phantom Works, Philadelphia, PA

Abstract

The need for ontology based interoperability has become critical to achieving progress in integrated engineering and health care. The Product Engineering Program at the National Institute of Standards and Technology has identified ontology based inter-operability as the next most crucial advance in the area of Product Life Cycle engineering. This was evidenced by our own work with Boeing last year when we helped them create a demonstration system for an ontology based system for integrating databases. NIST has also identified the same needs in the area of health care. It is in this context that we will develop a strategy for dealing with enterprise- wide ontology management systems.