A Semantic Interface to Scenario Component Reuse in DOD Simulation Systems

By Air Force Institute of Technology (U. S.). Graduate School of Engineering and Management

Biblioscholar Sep 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x10 mm. This item is printed on demand - Print on Demand Neuware - The Department of Defense utilizes various simulation systems to model employment of forces and weapons systems in operational environments. The data files that model these environments and weapons systems are extremely large and complex, and require many person-hours to develop. Compounding the problem, these data files are distributed across multiple systems in a heterogeneous environment. Currently, there is no automated means of identifying and retrieving reusable portions of these files for reuse in a new scenario under development. This work develops a multi-agent system that catalogs the files, and provides the user with a means of identifying and retrieving reusable components. Additionally, since the format of the source files varies from simulator to simulator, a process for performing scenario component transformation is developed and implemented. 168 pp. Englisch.

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