

**AUTO-BUILDING SIMULATION MODELS FROM PROJECT NETWORK
DIAGRAMS WITH EXTENDSIM**

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ABSTRACT

Simulation provides decision-makers with valuable information that is lacking in other forms of analysis. However, the urgency and complexity of many of today's problems make it difficult to build models quickly enough to provide decision-makers with timely analyses. Automating aspects of the model building process can substantially reduce the time required to deliver simulation results to decision-makers. This presentation demonstrates a mechanism for auto-building models from network diagram relations as defined in project management applications. The automated mechanism takes advantage of the ExtendSim scripting capabilities and internal relational database. Examples are presented demonstrating how this mechanism can be applied to production processes and project schedule analysis.