

Hidden Problem Detector

Identification of hidden problems in supply chains

PROBLEM STATEMENT:

Component-based supply chains of products like sensors or engines are increasingly non-transparent beyond tier 1 suppliers \rightarrow disruptions in early stages of supply chain remain undetected, propagate, and reinforce before popping up as critical situation at tier 1

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JS

Flask

SOLUTION:

- Graph-theoretic analysis of component criticality for detecting hidden problems in componentbased supply chains → multiple graph-theoretic centrality measures for determining component criticality
- Bill-of-Materials (BOM) data are automatically transformed into a knowledge graph, semantically enriched, and fed with historical and actual market data (e.g., prices)

