



Research School for Operations
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Robust Optimization in Safety Stock Placement problem for Multi-Echelon Supply chains

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The supply chain is naturally a multi-echelon system consisting of several stages associated with procurement, manufacturing, or transportation processes. The inherent uncertainties stemming from the market, suppliers, and production or service processes challenge the inventory management in these supply chains. Safety stock placement seems to be a practical approach to mitigate the risks of being stockouts because of various uncertainties in different stages. My contribution during my Ph.D. will be working on extending the available models in this research domain, assuming demand and lead time uncertainties, and providing efficient solution approaches to make these models more compatible with real working cases.