

Developing An Integration Methodology for Process capacity planning and supply chain planning

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This presentation investigates an integration between process capacity planning and overall supply chain planning. Since planning is concerned with preparing how resources are arranged before future situations realized, the planning problem should involve the entire aspect of a company including internal production processes as well as external demand supply networks. Most previous works mainly covered only one aspect of planning based upon the assumption that the other areas are fixed. Because decisions in planning for one part affect those of the others, the interaction between them should be made. In this paper, a framework that integrates capacity planning with overall supply chain decision-makings is proposed, after the process capacity planning model and supply chain one are constructed in the form of a mixed integer programming(MILP) problem.