

The book cover features a dark blue background. A light blue vertical bar is on the left. A red horizontal bar is positioned above the title. A rectangular area in the top left contains a light blue background with a dark blue network pattern of dots and lines.

Melanie Bloos

**Collaborative Planning
for Decentralized
Carrier Networks**

Verlag Dr. Kovač

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Collaborative Planning for Decentralized Carrier Networks
(Schriftenreihe innovative betriebswirtschaftliche Forschung und Praxis)



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Carriers face increasing cost and support competition in road transportation. The collaborative planning extends a carrier's classical operational preparing. The cost reduction outcomes from joint operational planning activities, the so called collaborative planning. Decentralized planning as paradigm surrounds the collaborative planning: the carriers make an effort to improve their situations jointly while they retain their autonomy. Decentralized collaborative planning identifies an exchange of transportation requests between carriers. This study fills a gap in previous research on decentralized collaborative planning. It comprises an exchange mechanism and a transfer payment scheme. It proposes a preparing framework which provides methods for the evaluation of transport requests. These procedures are heuristic indicators for the exchange system and a payment scheme which builds upon the approximated cost of a transportation request. Carrier networks goal at cost reduction and services improvement. The framework for collaborative planning preserves regional decision making and improves the carriers' operational preparing in a quickly computable and very easily understood manner. This thesis presents the carrier's extended planning and displays how it fits with the recommended collaborative planning framework.



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