

## Accepted Manuscript

Fair Profit Distribution in Multi-echelon Supply Chains via Transfer Prices

Songsong Liu, Lazaors G. Papageorgiou

PII: S0305-0483(16)30789-7  
DOI: [10.1016/j.omega.2017.08.010](https://doi.org/10.1016/j.omega.2017.08.010)  
Reference: OME 1820

To appear in: *Omega*

Received date: 8 November 2016  
Revised date: 17 May 2017  
Accepted date: 20 August 2017

Please cite this article as: Songsong Liu, Lazaors G. Papageorgiou, Fair Profit Distribution in Multi-echelon Supply Chains via Transfer Prices, *Omega* (2017), doi: [10.1016/j.omega.2017.08.010](https://doi.org/10.1016/j.omega.2017.08.010)

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**Highlights**

- An MILP-based fair profit distribution framework is developed for multi-echelon supply chains.
- Transfer pricing, production, distribution and capacity planning of the supply chains are considered as the key decisions.
- Solution approaches are developed using Nash bargaining and lexicographic maximin principles under proportional and max-min fairness criteria.
- A tailored hierarchical approach developed for approximate max-min fair solutions demonstrates computational advantage.
- Results from two examples demonstrate the applicability of the proposed models and approaches.

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