

Inventory Optimization for Large-Scale Supply-Chain Networks: A Recurrent-Neutral-Networks-Inspired Simulation Approach



Professor Jeff Hong
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Date: 13 July 2021 (Tuesday)

Time: 11:00 - 12: 30

Link:

<https://cityu.zoom.us/j/96407432826?pwd=YUesySUg4SmUzbVdOQTU4TnN5dXo5Zz09>
(Zoom Meeting ID: 964 0743 2826 Password: 427911)

Abstract:

Many of the large-scale supply chain networks include thousands types of final products and even more raw materials and intermediate products. These networks face complicated inventory management decisions, which are often too complicated for inventory models and too large for simulation models. In this paper, by combining efficient computational tools of recurrent neural networks (RNN) and the structural information of supply-chain networks, we propose an RNN inspired simulation approach that is capable of solving such large-scale problems.

Biography:

Jeff Hong is currently Fudan Distinguished Professor and Hongyi Chair Professor at Fudan University in Shanghai, China, with joint appointment with School of Management and School of Data Science. His research interests include stochastic simulation, stochastic optimization, financial risk management and supply chain management. He is currently Associate Editor-in-Chief of *Journal of Operations Research Society of China*, Simulation Area Editor of *Operations Research*, Associate Editor of *Management Science* and *ACM Transactions on Modeling and Computer Simulation*, and President of INFORMS Simulation Society.

Your attendance is most welcome!