The concept of price of anarchy (PoA) has been an extremely popular concept in computer science and operations research communities in the last few years. It has found applications in computer network, Internet, transportation network, and supply chain management. The PoA is a concept from algorithmic game theory that measures how well people do when they play selfishly (Nash equilibrium) versus choosing the social optimum. In this talk, we will apply this concept to characterize the efficiency of the price-only contract under various supply chain structures, a key problem in supply chain management.

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Wednesday, September 22nd @ 3:30pm
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