Propositions

Surveillance of Complex Auction Markets:
A Market Policy Analytics Approach

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i.   Considering the fractal dynamics of spot prices is an effective way to monitor market efficiency in terms of the aggregate-level bidding behavior of the marginal bidders in complex auction markets. (Chapter3)

ii. In semi-transparent markets, using ensemble forecasts can be effective in managing market price modelling risk. (Chapter4)

iii. The informational role of forward trading is a factor that decreases bidders' expectation biases in complex auction markets. (Chapter 5)

iv. Bidders in oligopolistic auctions adopt trading strategies with respect to their size, type, forward commitment, and portfolio diversity. These strategies lead to different productive efficiencies in the market. (Chapter 6)

v.   While theory provides useful principles to understand the market performance in different auction settings, we need data-driven (evidence-based) approaches for surveillance of complex auction markets. (This dissertation)

vi. Data analytics combined with domain-specific expert knowledge will be needed to develop sound decision support systems.

vii. The future of market surveillance will be based on market policy analytics.

viii. Data analytics will transform the decision processes in governments from rule of thumb decision-making into real-time, evidence-based decision-making.

ix. Data, just as natural resources, should not be wasted. It should be used for supporting energy efficiency, demand side management and security of energy supply.

x.   Business schools that invest in advanced business analytics programs will survive in the next decade.

xi. "*A certain darkness is needed to see the stars*." - Osho