Comments on

Certification and Exchange in Vertically Concentrated Markets

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Summary of the ideas and assumptions

- Model with asymmetric information on quality (seller is privately informed while buyer is not)
- Seller can pay a certifier to credibly signal product quality to the buyer
- Or the Buyer can ask the certifier to check (perfectly) the quality provided
- The certifier is a monopoly too -> second market failure in the model
- Certification is useful because of lemon's problem (without, hight quality would be driven out)

Main results: Buyer induced certification

- Buyer induced certification: it acts as an inspection device to detect low quality sellers
- The demand for certification is high when the cheating problem is large
- The certifier has incentives to manipulate its price in order to maximize the cheating problem, i.e.
 - high uncertainty for the buyer
 - intermediate prices for the good

• For a given certification price, signalling game where the product price posted may give incentives for the buyer to demand certification

Main results: Buyer induced certification

- PBE (in mixed strategy): buyer randomizes over certification and buying decisions (having observed prices) and seller randomizes over price
- Belief restriction: extension of Cho-Kreps intuitive criterion (with more pessimistic beliefs) to select equilibrium
- Full game: if prior belief of high quality is lower than 1/2 and high quality is not too costly, then the equilibrium induces
 - the belief $\mu=1/2$ and price $p=\left(q_h+q_l\right)/2$
 - and buyer's willingness to pay for certification is maximized

Main results: Seller induced certification

- Simpler to analyze: signalling game occurs only if the buyer does not demand for certification
- Which happens only when the certification price exceeds the maximal surplus to be extracted from the high quality seller
- The low quality seller does not demand certification while the high quality always demands it
- The certifier can extract all the surplus from the high quality seller

• Hence the certifier prefers a situation where the privately informed party demands certification

Main results: Welfare

- Trade-of:
 - with Seller induced certification, the low quality good is always sold (not the case with Buyer induced certification)
 - But, certification may occur more often under Seller induced certification (socially wasteful)
- Nevertheless, SW is higher under seller induced certification

Comments

- Very interesting model where the task of signalling for the seller is influenced by a third player (certifier) who may also influence the decision of buying certification by the buyer
- Simple model but non trivial results
- With the proposed timing, the high quality seller would prefer the buyer induced certification situation (imperfect extraction of its surplus)?
- Impact of competition between certifiers?

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