Comments on "Search with Adverse Selection" by Stephan Lauermann and Asher Wolinsky

Andrew Rhodes

Oxford University

June 2012

Andrew Rhodes (Oxford University)

June 2012 1 / 5

(3)

Set-up

- One buyer and a continuum of potential sellers
- Buyer is privately informed about how much it will cost to supply him (either c_L or c_H)
- Buyer pays *s* and searches for a trading partner:
 - Seller receives an informative signal about cost, from $[\underline{x}, \overline{x}]$
 - ► Nature draws a price, then seller then buyer accept or reject it
 - After disagreement, buyer searches again and a new signal is drawn independently

• • = • • = •

Summary

- When s = 0 the types pool, and buyer pays average cost
- Question: As $s \rightarrow 0$, does the price aggregate information, in the sense that it is close to full-information benchmark?
 - Necessary condition: there exist signals close to <u>x</u> which are exceedingly informative about the buyer being c_L rather than c_H
 - However it's not sufficient adverse selection problem
 - Seller is much more likely to be searched by a c_H-buyer (who take much longer to get a good signal) - which may overwhelm the (unconditionally) strong evidence generated by a low signal
 - c_L-types only (partially) separate when the informativeness of the signal grows quickly enough, as x → x
- Welfare is non-monotonic in the informativeness of signal technology
 - Highest when signal is either very informative or very uninformative

・ロト ・得ト ・ヨト ・ヨト 三日

Comments

- Assumptions:
 - Support of x is the same for both c_L and c_H
 - Everybody has strictly positive search cost
 - Prices drawn from a distribution
 - ★ Avoids Diamond Paradox, and equilibrium multiplicity that arises if buyer offers a price
 - * Trade fails with high probability even when signal is very favorable
 - ★ Interpret buyer and seller as small players in a larger game? Take price dispersion conditional on observables like *x* as given?
- How well is information aggregated, when *s* is small but not limiting towards 0?

< 同 ト く ヨ ト く ヨ ト

Comments

- Adverse selection and common value auctions
 - Suppose an auction has (fixed) N bidders, but the buyer can set a secret reservation price. If the price does not fall below the reserve price, buyer pays s and conducts a new auction with new bidders.
 - ► Adverse selection problem again. Limiting results for both N and s?
- Choice of selling mechanism
 - Should c_L -buyers just commit to an auction (if possible)? Sellers approached sequentially then infer $c = c_H$ automatically.
- Relaxing common values
 - For example w.p. 1/2 the match is good, and the seller's cost is reduced by c̄ (independent of c_L/c_H)
 - Seller receives two signals now
 - Weaker adverse selection problem now? c_L-type searches for low signals in both dimensions, whereas c_H-buyers may settle for one low signal.

イロン 不聞と 不同と 不同と