# Discussion of "Data Privacy and Digital Demand" by Chen, Huang, Ouyang and Xiong

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#### Summary

- Does consumer's privacy concerns affect their data sharing choices?
- Theoretical Prediction: Privacy Paradox
- Conduct Surveys to Alipay users about their data privacy concerns and then match their response with administrative data about their data sharing choices with mini-programs on the Alipay platform
- Gain insight on how consumer's privacy concerns related to their actual use of these mini-programs
- Main results: Consumers who are more concerned are the ones who uses digital services more- positive relation between privacy and digital demand

# Broad Picture-Data Economy/Privacy

- The paper falls in the very interesting and currently much discussed area of data economy and privacy
- How should we value data? (Laura Veldkamp et al.- series of papers)
- How should we price digital services? (Berg et al 2020, Agarwal et al-2022, Farboodi et al. 2022)
- Data has market power (Shota Ichihashi et al –AER 2019)
- Proxy data sharing
- This paper intersects data, welfare and market power and privacy- Joint dynamics of data privacy and digital demand

# Key points-1

- Based on the survey data, no difference found on data sharing by "concerned" and "very concerned" users
- Increasing trend

 Respondents on average rejected 26.5% of the data-sharing requests from mini programs

 Consumers choice reflect the trade-off between data privacy and digital demand

# Key Points-2

 More active users of mini-programs are more likely to cancel their data sharing with mini-programs

 Heavy users of digital services makes users more susceptible to privacy concerns

 Confirms that data privacy paradox is highly relevant and growing with deepening of digital economy

# Key Points-3

 Paper also talks about the cost and benefits of the data sharing in a Joint modeling of privacy and digital demand

 Shows that increasing trends in both costs and benefits of data sharing make it possible to explain the rising trend in Alipay users data sharing authorizations in the sample

- Is it "Choice" or "force"?- correlation or Causality?
- If I need the service, b\_i>c\_i
- Clean shot is RCT!
- Can administrative data help?
- Look at the duration of downloading or authorizing data sharing in the app and time of use of the service?
- Need more info and comparison of Alipays privacy settings
- Potential identification- Has there been any sever data breach during the sample period? (Ref: Privacy versus Convenience: Customer Response to Data Breaches of Their Information-Agarwal et al. R&R Management Sc)

- Potential Endogeneity
- Business shapes its optimal data strategy based on revenue model:
  collection and protection of users data (Fainmesser at al: Mgmt sc forthcoming)
- A business with more data-driven revenue model will collect more users data and provide more data protection than a similar business that is more usage driven!
- Relative to the socially desired data strategy, the business may over-or undercollect users data and may over-or underprotect it

 Are they agreeing because they trust Alipay platform more than individual min-programs?- help to have some insight on this

 On the other hand, why Alipay allows min-programs to be on their platform? – Can Alipay use these information for their own productis customer aware of it?

• Are there price discrimination by a mini-programe offering on Alipay super app vis-a-vis stand alone app?

• Is the paradox equally prevalent on all kinds of mini app? Some apps may be more for daily users, some app might have more competition

Is paradox is higher for app serving in a monopoly?

Can play with age and gender a bit more

A Decision tree kind of algorithm can gain more insight in the cross-section

• In the survey response- what's the distribution of responses for customers who used the mini app recently for the first time vs. who have been using for sometime?

 Cost in the utility function goes down if user has been regular with same setting than a new user

Does the customers understand what the study meant by "privacy issue"? This is crucial

#### Conclusion

Very important research question

Authors have a great data set

Detailed and Careful analysis.

 A more detailed analysis on understanding the mechanism will be helpful