

Universal Interactive Preferences

[Abstract]

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1. ABSTRACT

We prove that a universal preference type space exists under much more general conditions than those postulated by [1] for a large class of preferences beyond [4]. To wit, it is enough that preferences can be encoded by a countable collection of continuous functionals, while the preferences themselves need not necessarily be continuous or regular, like, e.g., in the case of lexicographic preferences. The proof relies on a far-reaching generalization of a method developed by [3]. The full statements and proofs are provided in [2].

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3. REFERENCES

- [1] L. Epstein and T. Wang. ‘Beliefs about beliefs’ without probabilities. *Econometrica*, 64:1343–1373, 1996.
- [2] J. V. Ganguli and A. Heifetz. Universal interactive preferences. mimeo, <http://ssrn.com/abstract=2174371>, 2012.
- [3] A. Heifetz and D. Samet. Topology-free typology of beliefs. *Journal of Economic Theory*, 82:324–341, 1998.
- [4] L. J. Savage. *The foundations of statistics*. John Wiley and Sons, 1954.