Selection Games and Minimal Usco Maps

Christopher Caruvana

Indiana University Kokomo chcaru@iu.edu

We will discuss a variety of well-known single-selection games relative to the space of minimal usco (upper-semicontinuous, compact-valued) maps into the real line and establish equivalences between certain properties of the domain and the existence of strategies in these games. Under sufficient functional separation in the domain, these characterizations perfectly mirror corresponding characterizations with continuous functions. As an application of these results, we recover a characterization of the metrizability of the space of minimal usco maps.

1