Miculescu, Radu

Some applications of LIP-partitions of unity. (English)

Summary: Continuous partitions of unity have many applications, as the Dowker theorem [see J. Dugundji, Topology (Allyn and Bacon Series in Advanced Mathematics, Allyn and Bacon, Boston) (1973; Zbl 0397.54003)] and the theory of selections [see VII.5 in J. Nagata, Modern general topology (North-Holland Mathematical Library 33, North-Holland, Amsterdam, New York, Oxford) (1985; Zbl 0598.54001)]. As the aforementioned partitions are versions of the partition of unity for Lipschitz functions, due to G. Georganopoulos, and for LIP-functions, due to J. Luukkainen and J. Väisälä, we can also give some applications of LIP-partitions of unity.

Classification:
* 54E40 Special maps on metric spaces
  46E15 Banach spaces of functions defined by smoothness properties

Cited in ...