

Lhotský, Jiří**Measurability of classes of Lipschitz manifolds with respect to Borel σ -algebra of Vietoris topology.** (English) [Zbl 1165.53304](#)[Acta Univ. Carol., Math. Phys. 47, No. 2, 25-33 \(2006\).](#)

Summary: The measurability of the classes of all k -dimensional Lipschitz manifolds with respects to the Borel σ -algebra of the Vietoris topology on the hyperspace of closed subsets of the d -dimensional Euclidean space is proved. By a k -dimensional Lipschitz manifold we understand a manifold without boundary locally representable by bi-Lipschitz images of closed half-spaces in \mathbb{R}^k or \mathbb{R}^k itself, respectively.

MSC:[53A07](#) Higher-dimensional and -codimensional surfaces in Euclidean and related n -spaces[60D05](#) Geometric probability and stochastic geometry[58D10](#) Spaces of embeddings and immersions**Keywords:**[Vietoris topology](#); [Lipschitz manifolds](#)**Full Text:** [EuDML](#)