Miroslav Katětov
An approach to covering dimensions

Comment.Math.Univ.Carolinae 36,1 (1995) 151-171.

Abstract: Using certain ideas connected with the entropy theory, several kinds of dimensions are introduced for arbitrary topological spaces. Their properties are examined, in particular, for normal spaces and quasi-discrete ones. One of the considered dimensions coincides, on these spaces, with the Čech-Lebesgue dimension and the height dimension of posets, respectively.

Keywords: Čech-Lebesgue dimension, height dimension of posets, dyadic expansion, rigged finite open covers, partition dimension
AMS Subject Classification: 54F45, 06A10