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Uniform Spaces & Completeness. Uniform spaces are special topological spaces in which the important metric notions of uniform convergence and completeness can be properly generalized (along with many other concepts now known as uniform properties). In functional analysis and related areas of mathematics, a sequence space is a vector space whose elements are infinite sequences of real or complex numbers. In mathematics, the Banach–Caccioppoli fixed-point theorem (also known as the contraction mapping theorem or contraction mapping principle) is an important tool in the theory of metric spaces; it guarantees the existence and uniqueness of fixed points of certain self-maps of metric spaces, and provides a constructive method to find those ... Read the latest articles of Nonlinear Analysis at ScienceDirect.com, Elsevier's leading platform of peer-reviewed scholarly literature