SPACES VS CATEGORIES, PERFECT MAPS VS DISCRETE COFIBRATIONS

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We consider perfect maps of topological spaces and discrete cofibrations of categories to guide us into Burroni's notions of T-category and T-functor. In that environment we establish a so-called comprehensive factorization system that entails the classical Street-Walters system, as well as the (antiperfect, perfect) system for continuous maps of Tychonoff spaces known since the 1960s.

(Based on joint work with Leila Yeganeh)