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   Sommario/riassunto The goal of this work is improving existing and suggesting novel
                      filtering algorithms for nonlinear dynamic state estimation. Nonlinearity
                      is considered in two ways: First, propagation is improved by proposing
                      novel methods for approximating continuous probability distributions
                      by discrete distributions defined on the same continuous domain.
                      Second, nonlinear underlying domains are considered by proposing
                      novel filters that inherently take the underlying geometry of these
                      domains into account.