



ADAPTIVE SOFT-SWITCHING FILTER FOR IMPULSIVE NOISE SUPPRESSION IN COLOR IMAGES (WedPmPO2)

★ Author(s) : Bogdan Smolka (Silesian University of Technology, Poland)

★ Abstract : In this paper a new class of filters designed for the removal of impulsive noise in color images is presented. The proposed filter class is based on the nonparametric estimation of the density probability function of pixels in a sliding filtering window. The comparison of the new filtering method with the standard techniques used for impulsive noise removal, indicates good noise removal capabilities and excellent structure preserving properties.