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**Patrick Guidotti\*** ([gpatrick@math.uci.edu](mailto:gpatrick@math.uci.edu)), Department of Mathematics, 340 Rowland Hall, Irvine, CA 92697. *Some Nonlinear Diffusions of Image Processing.*

Two regularizations of the well-known Perona-Malik equation of Image Processing will be presented and analyzed. Particular emphasis will be given to theoretical explanations for numerical observations concerning the behavior of solutions. (Received February 17, 2015)