Image Denoising Hemmer 4 9.1 MAP formulation [25] (25) 1/2 (25) 1/2 (25) 1/2 (25) Using Bogis Theorem: 8(614) = B(216) B(b) P(F) Since we want to meximise . P(P) is justa constant So we can maximize los P(PIP) + los P(P) Note that we can simplify the term log P(FIP) since los 1 1 12 15 just a constant for the maximization Therefore is sufficient to maximize - 1110-P112 + los P(0) Note that this is equivalent to minimize 1 11 P- PII2 - log P(P) this is equivalent to maximize E(3) = 11P-P112 - log P(P) 9.9 Technically, EPIL world be the lag-likelihood if the patches were independent. This is not true, since patches may overleip. Honorer, the proportion of overlapping patches is small, so it's a few approximation