

la Méthode Markovienne et l'analyse d'ondelettes pour le traitement des images satellitaires

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Abstract : The restoration methods involving Markov random fields with line process for the discontinuities are known to give good results in edge preserving image restoration . The Markov model is developed on the image decomposed at several resolutions using a wavelet transform. Simulated Annealing algorithm or ICM (Iterated Conditional Modes) performs the minimization of the non convex criterion . Several multiresolution algorithms are developed and results are compared with those in monoresolution . These multiresolution algorithms provide better results with less computation time .

Keywords : Markov random field, line processus, image restoration, multiresolution analysis, deterministic relaxation.