

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 forthe discontinuities are known to give good results in edge preserving imagerestoration . The Markov model is developped on the image decomposed at severalresolutions using a wavelet transform.Simulated Annealing algorithm or ICM (Iterated Conditional Modes) performs theminimization of the non convex criterion . Several multiresolution algorithms aredeveloped 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.