

# EM-MPM Image Segmentation Algorithm

DALIMI, University Hassan II Casablanca, Maroc

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This work presents a segmentation method based on Bayesian segmentation method relative to the EM/MPM. Most Bayesian algorithms find the Maximum a posteriori (MAP) estimate with the iterated conditional mode (ICM) algorithm. This algorithm can be easily trapped in local minima, especially in noisy images. The image data is modeled in terms of Markov random fields, which can be characterized by a Gibbs distribution. The parameter estimation process can be accomplished by some iterative algorithms: EM (Expectation Maximization), and MPM for segmentation. Segmented Satellite images are shown to illustrate the technique.

## Références

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