

SCENE SIMULATION & PATTERN MATCHING FOR OPTIMAL SPATIAL PLANNING & MANAGEMENT

Objective

To develop an algorithm for scene simulation, subsequent pattern matching and design of alternate simulated scenes preserving spatial structure

Highlights

Variogram Difference based Simulated Annealing (VDBSSA) – an algorithm proposed for scene simulation preserving spatial structure

Potential Applications

- Optimal spatial planning & management
- Pattern Recognition and matching

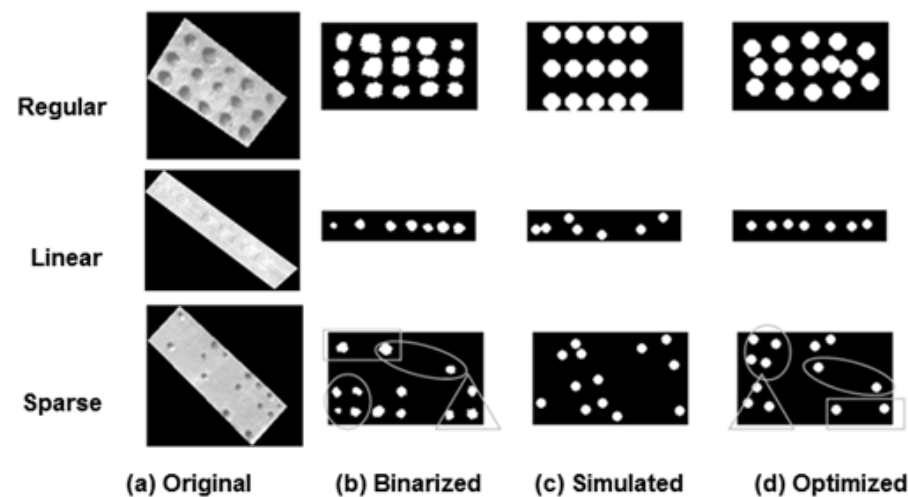


Figure: The four test images: (a) Original image, (b) processed binarized image, (c) simulated image and (d) image optimized using SA for three (regular, linear and sparse) tree arrangements. Configurations identified by ellipses are explained in the text.