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Title: Multilevel Thresholding based on Chaotic Darwinian Particle Swarm Optimization for Segmentation of Satellite Images

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### Highlights

- This paper introduces an improved variant of Darwinian PSO algorithm based on Chaotic functions
- It replaces random sequences by chaotic sequences mitigating the problem of premature convergence.
- Efficiency of ten defined chaotic maps are investigated and the best one was chosen.
- The proposed algorithm is compared with five different chaotic variants of existing optimization algorithms.
- It provides better convergence characteristics and segmentation results as compared with existing algorithms.

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