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Title: Improving Salt and Pepper Noise Removal Using a Fuzzy Mathematical Morphology-Based Filter

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## ACCEPTED MANUSCRIPT

### List of Highlights

- An improved FMMOCS (i-FMMOCS) filter for salt and pepper noise in images is presented.
- A comparison on 46 images with 20 different noise densities (5-98%) is performed.
- i-FMMOCS outperforms other state of the art filters both visually and quantitatively.
- Wilcoxon's test ensures a significant superiority from a statistical point of view.
- It removes the noise without compromising fine details regardless of the noise density.

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