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Two-Dimensional Multiscale Entropy Analysis: Applications to Image Texture Evaluation

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**Highlights**

- One of the most well-known complexity measures is the multiscale entropy (MSE)
- MSE exists for signals only (1D data). We extend MSE to images (2D case: MSE2D)
- A variant of MSE2D is also proposed (ModMSE2D)
- We show that MSE2D and ModMSE2D are powerful tools for image texture evaluation
- MSE2D is faster than ModMSE2D, but ModMSE2D is more robust to small image sizes

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