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Feature-Based Fuzzy Connectedness Segmentation of Ultrasound Images with an Object Completion Step

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Highlights

- Novel US segmentation approach based on the fuzzy connectedness framework.
- Use of local phase and feature asymmetry to define affinity function.
- Shape-based object completion step to detect and complete one or more gaps.
- Novel regional entropy-based quantitative image quality assessment approach.
- Method performs well across a variety of image qualities from clinical practice.

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