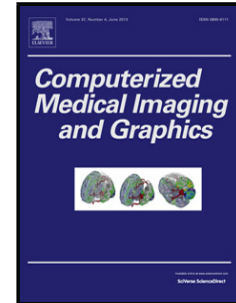


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Title: Towards Machine Learned Quality Control: A Benchmark for Sharpness Quantification in Digital Pathology

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- (i) A comprehensive benchmark dataset for blur detection was created.
- (ii) A comprehensive performance comparison of 13 sharpness metrics was obtained.
- (iii) Feature engineering was compared to deep feature learning for blur detection.
- (iv) A blur detection software was implemented for usage in the clinic.
- (v) The blur detector was validated on 3 datasets, and against human experts.
- (vi) The blur detector was tested in the clinical setting and compared it to the state-of-the-art joint QC pipeline of commercial scanner software and human QC experts.

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