

Can Crowdsourced Annotations Improve AI-based Congestion Scoring For Bedside Lung Ultrasound?

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Table 1. Data size and performance of the presented related works.

Study	Method	Data Size	Performance Metrics
Farahi <i>et al.</i> [2]	Wavelet denoise, Radon transform	1950 simulated images and 20,000 images from Zhao <i>et al.</i> [9], validation: 200 frames from 183 POCUS dataset [1]	Recall: 60%
Roy <i>et al.</i> [6]	Spatial transformer network	277 videos from 35 patients	F1 score: 65.1%
Shea <i>et al.</i> [7]	HMM1 and HMM2	4651 videos from 153 exams, 3022 videos from 122 exams of pediatric patients	specificities of 86%, 91%, sensitivities of 84% and 80%
Born <i>et al.</i> [1]	CNNs	202 videos, 59 images from 261 patients	F1 score: 0.92
Fox <i>et al.</i> [3]	Networks with a TSM	665 LUS videos from 172 subjects	ICC: 0.66
Mason <i>et al.</i> [5]	U-nets	13 patients, 1303 images	Sensitivity = 0.84, specificity = 0.95
Tan <i>et al.</i> [8]	R-CNN	training: 1,003 images from 46 patients, Validation: 382 images from 15 patients	ICC: 0.9
Howell <i>et al.</i> [4]	U-Nets	Training: 450 simulated phantom images. Transfer learning: 57 images from 41 patients	Dice Score: 0.7.

References

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