Quantitative endoscopic image analysis





"Hyperrealism"



Engelhardt S., et al., "Improving Surgical Training Phantoms by Hyperrealism...", **MICCAI 2018** Engelhardt S., et al., "Cross-Domain Conditional Generative Adversarial Networks...", **MICCAI 2019** Sharan L., et al., "Domain gap in adapting...for stereo-endoscopy," CDBE 2020 Stern A., et al., "Heatmap-based 2d landmark detection ...", BVM 2021

Quantitative endoscopic image analysis





Quantitative endoscopic image analysis

- Surgical data is highly heterogenous
- Data privacy and data security makes it difficult to acquire intra-op data
- Quantitative analysis helps in surgical training, feedback and planning









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