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Personalized, Relevance-based Multimodal Robotic Imaging and Augmented Reality for Computer Assisted Interventions

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Highlights

- Current diagnostic imaging systems are not designed to satisfy the requirements of Computer Assisted Interventions
- Requirements of intra-operative imaging include: Relevance, Speed, Flexibility, Reproducibility, Reliability, Usability, Safety
- Only Multi-modal Robotic Imaging and Relevance-Based Augmented Reality Visualization could satisfy the above basic requirements
- This paper reviews some of the work of the CAMP group in the last decade as first steps towards design and development of patient and process specific robotic imaging and relevance based augmented reality visualization

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