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(Medical) image quality assessment using deep learning

This talk focuses on the problem of image quality assessment with application to cine cardiac magnetic resonance imaging (cMRI), where image quality is often compromised by different types of imaging artefacts, such as mistriggering, arrythmia, incomplete coverage of the heart, and incorrect scanning planes. Using data from UK Biobank, and additional data augmentation in k-space, we present how deep learning based methods can reliably detect low-quality cMRI image acquisitions.