Recent R& D Topics in Mammography and CBCT Imaging

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Abstract

In medical imaging R& d on image reconstruction and processing methods, the typical κpis include computational efficiency; baseline image quality (in terms of image contrast, sharpness and noise); robustness and generalizability in terms of input data; and suppression of artefacts emanating from either the image acquisition and reconstruction process or post-processing operations applied to the "raw" images. Moreover, the outcome of the work should have a positive business impact, which often means that the contemporary R& d topics are driven by customer demand and competitor analysis.

Recent R& d work at Planmed and Planmeca is presented for mammography reconstruction (tomosynthesis, synthetic mammogram and contrast-enhanced mammogram), mammography and dental X-ray image enhancement, and CBCT motion artefact suppression as well as image stitching.