

# **GAN-based sinogram inpainting for metal artifact reduction in dental cone-beam CT**

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## **ABSTRACT**

We proposed generative adversarial network based sinogram inpainting method to deal with some metal related artifacts in dental cone-beam CT. Existing MAR methods which are implemented for a 2D slice such as a sinogram may not be effective for CBCT projection data due to the lack of information. To overcome this issue, our method was modeled to use a additional z-axis context information of cone-beam projection to inpaint metal trace in sinogram.