

Image Data Used in the Simulations of "The Role of Image Compression Standards in Medical Imaging: Current Status and Future Trends"

Description

These are the 3D image data used in the simulations of the paper "The Role of Image Compression Standards in Medical Imaging: Current Status and Future Trends". 10 series per collection were selected from [CT COLONOGRAPHY](#), [LIDC-IDRI](#), [TCGA-BRCA](#), and [TCGA-GBM](#) for analysis. Lossless and lossy compression algorithms, including JPEG, JPEG-LS, JPEG-XR, JPEG2000, HEVC, are used to compress and decompress the images. Their performances are compared in the paper.

Data Access

Data Access

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Citations & Data Usage Policy

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Data Citation

Liu, Feng; Hernandez-Cabrero, Miguel; Sanchez, Victor; Marcellin, Michael W.; Bilgin, Ali. (2016). **Image Data Used in the Simulations of "The Role of Image Compression Standards in Medical Imaging: Current Status and Future Trends"**. The Cancer Imaging Archive. <https://doi.org/10.7937/K9/TCIA.2016.xHsOkCdc>

TCIA Citation

Clark K, Vendt B, Smith K, Freymann J, Kirby J, Koppel P, Moore S, Phillips S, Maffitt D, Pringle M, Tarbox L, Prior F. **The Cancer Imaging Archive (TCIA): Maintaining and Operating a Public Information Repository**, Journal of Digital Imaging, Volume 26, Number 6, December, 2013, pp 1045-1057. DOI: <https://doi.org/10.1007/s10278-013-9622-7>

In addition to the dataset citation above, please be sure to cite the following if you utilize these data in your research:

Publication Citation




Liu, Feng; Hernandez-Cabrero, Miguel; Sanchez, Victor; Marcellin, Michael W.; Bilgin, Ali. (2017) **The Current Role of Image Compression Standards in Medical Imaging**. Information 8(4):131-157. doi:10.3390/info8040131 <http://www.mdpi.com/2078-2489/8/4/131>

Other Publications Using This Data

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Version 1 (Current): 2016/12/08

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