



## SYSTEM AND METHOD FOR CONTROLLING ERRORS IN COMPUTED TOMOGRAPHY NUMBER

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Inventors: Guang-Hong Chen, Ke Li

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### The Invention

UW-Madison researchers developed a method to correct the CT number accuracy degradation problem in low dose CT imaging. By understanding the CT number bias resulting from clinical implementations, the invention provides the mathematical correction to account for this error, thus providing more accurate representation of tissue in clinical images. The novel technique begins by acquiring or accessing sinogram data and determining a photon count for the sinogram data. It generates unbiased sinogram data from the sinogram data using an unbiased estimator and the photon count and reconstructing a CT image from the unbiased sinogram data.

### Additional Information

#### For More Information About the Inventors

- [Guang-Hong Chen](#)
- [Ke Li](#)

#### Tech Fields

- [Medical Imaging : CT](#)

For current licensing status, please contact Jeanine Burmania at [jeanine@warf.org](mailto:jeanine@warf.org) or 608-960-9846