



Artificial Intelligence (AI)-Aided Technology to Achieve Patient Specific Dose Prescription and Delivery

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The Wisconsin Alumni Research Foundation is seeking commercial partners for an AI-assisted imaging technology to enhance precision and accuracy of medical imaging scans while minimizing exposure to radioactivity.

The Invention

UW-Madison researchers have developed an AI-assisted imaging technology that uses a deep neural network to reconstruct a 3-D model of the patient. This invention predicts patient positioning, beam intensity and irradiation modulation parameters necessary for medical imaging without having to collect 2-D X-ray scout radiographs of the patient in advance. Moreover, the AI-based design provides informed guidance to prescribe the lowest possible radiation dose to achieve sufficient image quality prior to diagnosis. Ultimately, this technology achieves optimal patient-specific information including dose, prescription and delivery.

Additional Information

For More Information About the Inventors

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Tech Fields

- [Medical Imaging : CT](#)

For current licensing status, please contact Jeanine Burmania at jeanine@warf.org or 608-960-9846