

Direct Reconstruction Algorithms for Real-Time Patient Imaging with Electrical Impedance Tomography

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Electrical impedance tomography is a promising medical imaging technique for continuous patient monitoring in the ICU, particularly for obtaining real-time regional ventilation information at the bedside. In this talk an introduction to direct D-bar methods will be given with a description of a real-time implementation suitable for lung imaging. Preliminary results on the use of a priori data in the D-bar algorithm will be presented.