

Simulation of Image Fusion of Dual Modality (Electrical Capacitance and Optical Tomography) in Solid/Gas Flow

Abstract

This paper presents a novel method of combining dual modality electrical capacitance and optical tomography for applications in monitoring and investigating solid/gas flow. The objective of this method is to obtain a good quality image of the full-scale concentration distribution of solid/gas flow. A new image reconstruction algorithm fused the dual modality images is developed and evaluated. © 2010 Springer Science+Business Media, LLC.

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Author Keywords

Dual mode tomography; Electrical capacitance tomography; Image fusion; Optical tomography; Reconstruction algorithm; Solid/gas flow