

Go

About Us

International Journal of Biomedical Imaging

About this Journal Submit a Manuscript Table of Contents



- Abstracting and Indexing
- Aims and Scope
- Article Processing Charges
- Articles in Press
- Author Guidelines
- Bibliographic Information
- Contact Information
- Editorial Board
- Editorial Workflow
- Reviewers Acknowledgment
- Subscription Information

International Journal of Biomedical Imaging Volume 2007 (2007), Article ID 83016, 7 pages doi:10.1155/2007/83016

Research Article

The Factorization Method for Electrical Impedance Tomography Data from a New Planar Device

| Ξ | Abstract |
|---|-------------------|
| 7 | Full-Text PDF |
| P | Linked References |

- P How to Cite this Article
- O Complete Special Issue

Mustapha Azzouz,¹ Martin Hanke,² Chantal Oesterlein,² and Karl Schilcher¹

¹Institut für Physik, Johannes Gutenberg-Universität Mainz, Mainz 55099, Germany ²Institut für Mathematik, Johannes Gutenberg-Universität Mainz, Mainz 55099, Germany

Received 19 September 2006; Revised 28 January 2007; Accepted 11 April 2007

Academic Editor: Alfred Karl Louis

Abstract

Open Special Issues

Published Special Issues

Special Issue Guidelines

Call for Proposals for Special Issues

We present numerical results for two reconstruction methods for a new planar electrical impedance tomography device. This prototype allows noninvasive medical imaging techniques if only one side of a patient is accessible for electric measurements. The two reconstruction methods have different properties: one is a linearization-type method that allows quantitative reconstructions; the other one, that is, the factorization method, is a qualitative one, and is designed to detect anomalies within the body.

Copyright © 2009 Hindawi Publishing Corporation. All rights reserved.