

Resume

Minming Huang
Research Assistant

Education:

B. S, Precision Instrumentation, Shanghai Jiaotong University, 1992-1996
M. S., Precision Instrumentation, Shanghai Jiaotong University, 1996-1999
Ph.D. candidate, Electrical Engineering, University of Connecticut, 2003-current

Research Interest:

Near infrared (NIR) diffused wave algorithm and imaging, finite element method related modeling and computation.

Publications:

1. MM. Huang, PY. Guo, NG. Chen, Q. Zhu, "Preliminary experiment results of a 1.75D ultrasound array," Proceedings of IEEE 27th Annual Northeast Bioengineering Conference, pp. 51-52, The University of Connecticut, Storrs, Connecticut, April, 8-9, 2001.
2. M. Huang, TQ. Xie, NG. Chen, Q. Zhu, "NIR imaging reconstruction with ultrasound guidance", Optical Society of America, Biomedical Topical Meetings, Technical Digest, pp.84-87, Miami Beach, Florida, April 7-10, 2002.
3. M. Huang, TQ. Xie, NG. Chen, Q. Zhu, "NIR imaging reconstruction with ultrasound guidance: feasibility study using transmission geometry", App. Opt. **42**(19), pp. 4102, (2003).
4. Q. Zhu, M. Huang, NG. Chen, K. Zarfos, B. Jagjivan, M. Kane, P. Hegde, S. Kurtzman, "Ultrasound-guided optical tomographic imaging of malignant and benign breast lesions: initial clinical results of 19 cases," Neoplasia, 5(5), 379-388, (2003).
5. Q. Zhu, S. Kurtzman, P. Hegde, M. Huang, NG. Chen, B. Jagjivan, M. Kane, K. Zarfos, "Imaging heterogeneous tumor angiogenesis distributions of advanced breast cancers by optical tomography with ultrasound localization," Proc. of Nat. Ac. of Sci., Accepted.
6. M. Huang, NG. Chen, B. Yuan, and Q. Zhu, "3D simultaneous absorption and scattering coefficients reconstruction for the reflection geometry," Optical Tomography and Spectroscopy of Tissue V, edited by Britton Chance, Robert R. Alfano, Bruce J. Tromberg, Mamoru Tamura, Eva M. Sevick-Muraca, (SPIE, Bellingham, WA, 2003), in Proceedings of SPIE Vol. 4955: 52-58 (2003).
7. M. Huang and Q. Zhu, "A dual mesh optical tomography reconstruction method with depth correction using a priori ultrasound information," submitted to Applied Optics.