

Publications

Project related publications:

1. Malony, A. D., Salman, A., Turovets, S., Tucker, D. M., Volkov, V., Li, K., Song, J., Biersdorff, S., Davey, C., Hoge, C. & Hammond, D. (2011). Computational Modeling of Human Head Electromagnetics for Source Localization of Milliscale Brain Dynamics. In MMVR 2011 (pp. 329-335). ([Paper](#)).
2. Smith K, Politte D, Reiker G, Nolan T, Hildebolt C, Mattson C, Tucker D, Prior F, Turovets S, Larson-Prior. Automated Measurement of Pediatric Cranial Bone Thickness and Density from Clinical Computed Tomography, IEEE EMBS Conf. 2012, 4462 – 4465. IEEE Xplore, DOI 10.1109/EMBC.2012.6346957. PMID: [23366918](#)
3. Song J, Turovets S, Govyadinov P, Mattson C, Luu P, Smith K, Prior F, Larson-Prior L, Tucker D. “ Anatomically Accurate Infant Head Models for EEG Source Localization.” Journal of Physics: Conference Series, 2013; 434(1): 012012. ([Paper](#))
4. Smith K, Politte D, Reiker G, Nolan T, Hildebolt C, Mattson C, Tucker D, Prior F, Turovets S, Larson-Prior. Automated Measurement of Skull Circumference, Cranial Index, and Braincase Volume from Pediatric Computed Tomography, IEEE EMBS Conf. 2013, 3977-3980. ([Paper](#)).
5. Song J, Morgan K, Turovets S, Li K, Davey C, Govyadinov P, Luu P, Smith K, Prior F, Larson-Prior L, Tucker D. Anatomically Accurate Head Models and Their Derivatives for Dense Array EEG Source Localization. Funct Neurol Rehabil Ergon 2013; 3(2-3):275-293. ([Paper](#))
6. Turovets S, Volkov V, Zherdetsky A, Prokonina E, Malony A. A 3D BiCG Iterative Solver with the Fourier Preconditioner for the Anisotropic EIT / EEG forward problem. 15th International Conference on Electrical Bio-Impedance and Electrical Impedance Tomography; April 22-25, 2013; Heilbad Heiligenstad, Germany. ([Paper](#))
7. Sergei Turovets, "A 3D Finite-Difference BiCG Iterative Solver with the Fourier-Jacobi Preconditioner for the Anisotropic EIT/EEG Forward Problem," Computational and Mathematical Methods in Medicine, vol. 2014, Article ID 426902, 12 pages, 2014. ([Paper](#))

Project Related Presentations:

1. Smith K, Politte D, Reiker G, Nolan T, Hildebolt C, Mattson C, Tucker D, Prior F, Turovets S, Larson-Prior. Automated Measurement of Pediatric Cranial Bone Thickness and Density from Clinical Computed Tomography, IEEE EMBS Conf. San Diego CA, 2012, ([Poster](#))
2. Song J, Turovets S, Govyadinov P, Luu P, Tucker D, Prior F, Larson-Prior L. “Accurate Pediatric Head Models for EEG Source Localization.” Abstract and poster presentation, 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, WA, June 2013. ([Poster](#))
3. Smith K PD, Reiker G, Nolan T, Hildebolt C, Mattson C, Tucker D, Prior F, Turovets S, Larson-Prior. Automated Measurement of Skull Circumference, Cranial Index, and Braincase Volume from Pediatric Computed Tomography. IEEE EMBS Conf; Osaka, Japan 2013. ([Slides](#))

Relevant PhD Dissertations:

1. Kai Li. Neuroanatomical Segmentation in MRI Exploiting A Priori Knowledge. [PhD thesis](#), University of Oregon, Dept. Computer and Information Science, 2007

Relevant Patents:

1. Kai Li, Allen Davis Malony, Don M. Tucker. Image segmentation method. [US8478011 B2](#)