

Refereed Publications:

1. Ramirez-Manzanares A, Rivera M, Vemuri BC, Carney P, Mareci T. Diffusion basis function decomposition for estimating white matter intra-voxel fiber geometry. *IEEE Transactions in Medical Imaging*, 2007, accepted.
2. Sanchez JC, Carney PR, Gunduz A, Principe JC. Extraction and Localization of Mesoscopic Motor Control Signals for Human ECoG Neuroprosthetics. *J. Neuroscience Methods*, 2007, accepted.
3. Martynuk AE, Ucar DA, Yang DD, Norman WM, Carney PR, Dennis DM, Laipis PJ. Epilepsy in phenylketonuria: A complex dependence on serum phenylalanine levels. *Epilepsia*, 2007, in press.
4. Talathi S, Dong-Uk H⁺, Ditto W, Meyers S, Simonotto J, Norman W, and Carney P. High frequency oscillations in limbic rat model for temporal lobe epilepsy. *Computational Neuroscience*, 2007, in press.
5. Bing J, Vermuri BC, Ozarslam E, Carney P, Mareci T. A continuous mixture of tensors model for diffusion-weighted MR signal reconstruction. *IEEE Neuroimaging*. 2007, in press.
6. Nair S, Sackellares JC, Shiau DS⁺, Norman W, Dance L, Pardalos P, Principe JP, Carney PR. Effects of acute hippocampal stimulation on EEG dynamics. *IEEE Engineering in Medicine and Biology Society*, 2006, in press.
7. Mishra M, Jones B¹, Simonotto JD⁺, Furman MD, Norman W, Liu Z, DeMarse TB, Carney PR, Ditto W. Pre-ictal correlation and entropy analysis of microwire data from an animal model of limbic epilepsy. *IEEE Engineering in Medicine and Biology Society*, 2006, in press.
8. Simonotto JD, Myers SM, Furman MD⁺, Norman WM, Liu Z, DeMarse TB, Ditto WL, Carney PR. Coherence Analysis Over the latent Period of Epileptogenesis Reveal that High-Frequency Communication is Increased Across Hemispheres in an Animal Model of Limbic Epilepsy. *IEEE Engineering in Medicine and Biology Society*, 2006, in press.
9. Nelson R, Myers S, Simonotto J, Furman M, Spano M, Norman W, Liu Z, DeMarse T, Ditto W, and Carney PR. Detection of high frequency oscillations with Teager energy in an animal model of limbic epilepsy. *IEEE Engineering in Medicine and Biology Society*, 2006, in press.
10. Sanchez JC, Carney PR, Principe JC. Analysis of Amplitude Modulated Control Features for ECoG Neuroprosthetics. *IEEE Engineering in Medicine and Biology Society*, 2006, in press.
11. Qizhi Z, Liu Z, Carney PR, Jiang H. Imaging Epilepsy Using Finite Element-based photoacoustic tomography: initial in vivo results. *Biomedical Optics Technical Digest.*, 18; 2006.
12. Geyer JD, Carney PR, Gilliam F. Focal Epileptiform Spikes in Conjunction With K-Complexes. *J Clin Neurophysiol*. 2006 Oct;23(5):437-440.
13. Sanchez JC, Mareci T, Norman W, Principe J, Ditto W, and Carney PR. Evolving into epilepsy: multiscale electrophysiological analysis and imaging in an animal model. *Exp Neurol*. 2006 Mar; 198(1): 31-47.

14. Nair SP, Shiau DS, Iasemidis LD, Norman WM, Pardalos PM, Sackellares CS, and Carney PR. Seizure predictability in an experimental model of epilepsy. *Proceedings, Quantitative Neuroscience Conferenc.* 2006; 213-220. .
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16. Miller J, Carney P. Central hypothyroidism with oxcarbazepine therapy. *Pediatr Neurol.* 2006 Mar; 34(3): 242-4.
17. Stacpoole PW, Kerr DS, Barnes C, Bunch ST, Carney PR, Fennell E, Felitsyn NM, Gilmore R, Greer M, Henderson G, Hutson AD, Neiberger R, O'Brien R, Perkins LA, Quisling R, Shroads AL, Shuster JJ, Silverstein JH, Theriaque DW, Valenstein E. A Controlled Clinical Trial of Dichloroacetate for Treatment of Congenital Lactic Acidosis in Children. *Pediatrics* 2006 May; 117(5):1519-1531.
18. Sanchez JC, Alba N, Nishida T, Batich C, and Carney PR. Structural modifications in chronic microwire electrodes for cortical neuroprosthetics: A Case Study. *IEEE Transactions on Neural Systems and Rehabilitation Engineering* 2006 June; 14(2).
19. Sanchez JC, Principe JC, and Carney PR. Is Neuron Discrimination Preprocessing Necessary for Linear and Nonlinear Brain Machine Interface Models? *11th International Conference on Human-Computer Interaction, 2005*; 1100-1115.
20. Iasemidis LD, Shiau DS⁺, Pardalos PM, Chaovalitwongse W¹, Narayanan K¹, Prasad A¹, Tsakalis K, Carney PR, Sackellares JC. Long-term prospective on-line real-time seizure prediction. *Clin Neurophysiol.* 2005 Mar;116(3):532-44. Epub 2005 Jan 6.
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22. Pardalos PM, Boginski VL, Prokopyev OA¹, Suharitdamrong W, Carney PR, Chaovalitwongse W, Vazacopoulos A. Optimization Techniques in Medicine. In: Eds. Audet C, Hansen P, Savard G. *Essays and Surveys in Global Optimization.* Springer, 2005;151-173.
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50. Botulinum toxin and intrathecal baclofen for spasticity. An illustrative case from a large outcomes survey. *Tennessee Medicine.* In press.

Books, Co-Authored:

1. Geyer JD, Keating JM, Potts DC, Carney PR. *Neurology for the Boards*, 3rd ed. Lippincott-Williams & Wilkins, Inc., Philadelphia, 2006.
2. Carney PR, Geyer JD, Berry R, eds. *Clinical Sleep Disorders*, 1st ed. Lippincott-Williams & Wilkins, Inc., Philadelphia, 2005.
3. Geyer J, Carney P, Payne T, Aldrich M. *Atlas of Digital Polysomnography*. 1st ed. Lippincott-Williams & Wilkins, Inc., Philadelphia, 2000.

Book, Edited:

1. Carney PR, Geyer JD, Berry R. *Clinical Sleep Disorders*. Lippincott-Williams and Wilkins, 1st Edition, Newark, NJ, 2005.

2. Pardalos PM, Sackellares JC, Carney PR, Iasemidis LD. *Quantitative Neuroscience: Models, Algorithms, Diagnostics, and Therapeutic Applications*. Kluwer Academic Publishers, Norwell, MA 2004.

Books, Contributor of Chapter(s):

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2. Carney PR, Becker DA, Bongiolatti S. (2005) Ontogeny of Sleep. In: Carney PR, Geyer JD, Berry R, eds. *Clinical Sleep Disorders*, 1st ed. Philadelphia: Lippincott Williams & Wilkins 2005; 95-98.
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Monographs:

1. Yatsenko V, Sackellares C, Pardalos P, Carney P. Geometric models, fiber bundles and biomedical applications. *Fifth International Conference: Symmetry in Nonlinear Mathematical Physics, Institute of Mathematics*. Kiev, 2003; 195-217.
2. Carney PR, Kohrman, MH. Relation between epilepsy and sleep during infancy and childhood. In: *Sleep and Epilepsy: The Clinical Spectrum*. Eds. Malow BM, Bazil C, Sammaritano M. Pub. Elsevier Science 2002; 359-372.
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Refereed Proceedings:

1. Carney PR, Shiau DS, Pardalos PM, Iasemidis LD, Chaovalitwongse W¹, Sackellares JC. Nonlinear neurodynamical features in an animal model of generalized epilepsy. *Quantitative Neuroscience: Models, Algorithms, Diagnostics, and Therapeutic Applications*. Kluwer Academic Publishers, 2004, 37-52.
2. Sackellares JC, Iasemidis LD, Shiau LD, Pardalos PM, Carney PR. Spatiotemporal

transitions in temporal lobe epilepsy. *Quantitative Neuroscience: Models, Algorithms, Diagnostics, and Therapeutic Applications*. Kluwer Academic Publishers 2004; 223-38.

3. Shiau DS, Chaovalitwongse W, Iasemidis LD, Pardalos PM, Carney PR, Sackellares JC. Nonlinear dynamical and statistical approaches to investigate dynamical transitions before epileptic seizures. *Quantitative Neuroscience: Models, Algorithms, Diagnostics, and Therapeutic Applications*. Kluwer Academic Publishers 2004; 239-50.
4. Yang MCK, Shiau DS, Sackellares JC, Carney PR. Testing whether a prediction scheme is better than guess, In: Pardalos PM, Sackellares JC, Carney PR, and Iasemidis LD (eds.) *Quantitative Neuroscience 2003*, Kluwer Academic Publishers 2004; 251-259.

Refereed Abstracts:

1. Bing J, Vermuri BC, Ozarslam E, Carney P, Mareci T A novel tensor distribution for the diffusion weighted MR signal. *IEEE International Symposium on Biomedical Imaging: From Nano to Macro*. April 12-17, 2007.
2. Singh T, Little LE, Nathoo S, Snively C, Ringdahl D, Winger K, Jackson C, Carney PR, Liu Z, Borum P. Evaluating potential growth abnormalities in a patient population at Shands/UF on ketogenic diet therapy for seizures. Abstract, *Experimental Biology*, 2007.
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4. Sepulveda H, Hoang-Minh L, Parekh MB, Hadlock A, Norman W, Sanchez JC, Ditto WL, Carney PR, Mareci T. Evolution of Temporal Lobe Epilepsy Observed with 11.1 Tesla MRI In Vivo. *60th Annual Meeting of the American Epilepsy Society*, San Diego, CA, 2006.
5. Parekh M, Hoang-Minh LB, Sepulveda H, Handlock A, Norman W, Sanchez JC, Ditto WL, Carney PR, Mareci TH. Diffusion Tensor MR Imaging of the Rat Model of Mesial Temporal Lobe Epilepsy. *60th Annual Meeting of the American Epilepsy Society*, San Diego, CA, 2006.
6. Nair SP, Norman WM, Dance L, Pardalos PM, Principe J, and Carney PR. Development of Spatiotemporal Dynamical Transitions during Epileptogenesis. *60th Annual Meeting of the American Epilepsy Society*, San Diego, CA, 2006.
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32. Geyer JD, Carney PR, Gilliam F. Focal Dysrhythmia: Focal epileptiform spikes in conjunction with K-complexes. *Epilepsia* 46 Suppl. 8:27 (Abst. 1.041), 2005.
33. Bongiolatti SR, Fennell EB, Carney PR. Sleep Fragmentation and Disruptive Behaviors in Children with Epilepsy and Co-morbid Sleep Disordered Breathing. *Journal of the International Neuropsychological Society* 2006; 12(S1): 109.
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46. Sackellares JC, Yang MCK, Iasemidis LD, Shiau DS⁺, Pardalos PM, Carney PR. Real -Time Prospective Seizure Prediction and Statistical Assessment. *NIH Biomedical Information Science Technology Initiative Consortium BISTIC, Bethesda, MD*, Nov 6-7, 2003.
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