Translation of Quantitative MRI Techniques from the Lab to the Clinic

Wednesday, September 27, 12:00 p.m. East Hall Room 1232

Dr. Brian A. Taylor
Assistant Professor, Departments of Radiology and Physical Medicine & Rehabilitation
Baylor College of Medicine, Houston, TX

Abstract
Magnetic Resonance Imaging (MRI) is a powerful tool used for assessing the patient for a vast variety of disease processes. In addition to providing superior soft tissue image contrast for visual evaluation by a radiologist, there are quantitative measures that can be derived from MRI to aid in the diagnosis of certain diseases or in the assessment of treatment response. In this talk, we will review some quantitative MRI techniques used for evaluation of certain neurological, hepatic, and cardiac diseases. Focus will be given on quality assurance procedures performed from the time of image acquisition all the way to image processing to assure consistent results that are independent of the type of MRI scanner used.

Biography
Brain Taylor obtained his BS degree in Mathematics and Physics from Union University. Dr. Taylor obtained his PhD in Medical Physics from The University of Texas M.D. Anderson Cancer Center in 2010. Dr. Taylor did a Postdoctoral Fellowship at St. Jude Children’s Research Hospital focusing in Translational Imaging Research. Dr. Taylor is certified in Diagnostic Medical Physics by the American Board of Radiology.