DEPARTMENT OF BIOMEDICAL ENGINEERING SEMINAR SERIES

presents

Dr. Manoj Saranathan, Ph.D.
Assistant Professor, Medical Imaging

“MRI-guided neurosurgery for deep brain stimulation”

Abstract: Neurological conditions such as Parkinson's disease and essential tremor are increasingly being treated using deep brain stimulation (DBS) in patients who do not respond to pharmaceuticals. DBS involves implantation of electrodes in deep brain structures, typically done on awake patients using a combination of pre-op MRI/CT images and electrophysiological guidance. I will present some of our work on the use of MRI in conjunction with advanced image processing for DBS surgery in asleep patients, which is ideal for patients who are not suitable for awake implantation.

Bio: Following a PhD in Bioengineering from UW, Seattle on cardiac MRI, Manoj Saranathan worked at the Applied Science Laboratory of GE Healthcare as a scientist for almost 10 years before moving back to academia in 2010. He has been at UA since 2015 where his research focuses on fast dynamic MRI, neuro image processing and imaging of function. He also is a clinical MRI physicist responsible for day to day functioning of clinical MRI scanners as well as translating cutting edge research into viable clinical applications.

Please join us on

Monday, October 2nd, 2017
2:00-2:50 pm, Keating Bldg, Room 103
Refreshments will be available at 1:45 pm

Host: Jane Mohler, Ph.D.
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Persons with a disability may request a reasonable accommodation by contacting the Disability Resource Center at 621-3268 (V/TTY).