PostDoc Position in Brain Image Analysis at USC

A post-doctoral fellow position in brain image analysis is available at the Keck School of Medicine of USC. The post-doc fellow will be responsible for developing innovative computational techniques to analyze multi-modal brain imaging data from multiple sclerosis (MS) research. The focus of the research will be the use of T1-weighted structural MRI, multi-shell diffusion MRI, MR spectroscopy, together with other MR modalities to develop more specific imaging markers for improved diagnosis and management of MS. In this position, the post-doctoral fellow will be co-supervised by Dr. Yonggang Shi of the Laboratory of Neuro Imaging (LONI, http://www.loni.usc.edu ) at the Stevens Neuroimaging and Informatics Institute of USC (http://www.ini.usc.edu) and Dr. Daniel Pelletier of the USC Multiple Sclerosis Center (http://ms.keckmedicine.org) at the Keck School of Medicine of USC. Through the Laboratory of Neuro Imaging at the Stevens Neuroimaging and Informatics Institute at USC, the post-doctoral fellow will have access to the ideal environment for brain imaging research. The LONI image data archive (IDA) is one of the largest brain image collections that hosts various imaging repositories such as ADNI. The datacenter of LONI boasts 3,328 cores and 26 terabytes of aggregate memory space for Big Data brain image analysis. The new institute will also house a state-of-the-the- art image acquisition center with both 3T (high performance gradient Prisma) and 7T MR (Siemens) scanners for human brain imaging. More information can be found at http://www.ini.usc.edu and http://www.loni.usc.edu.

The ideal candidate should have a PhD in engineering, computer science, or applied mathematics, and strong background in brain or medical image analysis. Prior research experience (publications) in MS brain image analysis is encouraged and a definite plus. Solid programming skills in C++ and Matlab are desirable. Interested candidates should send their CVs to Dr. Yonggang Shi (yshi@loni.usc.edu) and Dr. Daniel Pelletier (dpelleti@usc.edu).