



Krishna Nayak, PhD Professor of Electrical Engineering-Systems, Biomedical Engineering, and Radiology University of Southern California

Real-Time MRI: Past, Present, Future

What does "real-time imaging" mean to you? Consider videoconferencing, live television, and existing diagnostic modalities (ultrasound, X-ray fluoroscopy) when preparing your answer. In medicine, real-time imaging provides diagnostic value when it captures the content of interest (requiring spatiotemporal resolution and contrast), and when it provides the ability to interact (requiring low-latency reconstruction). These have both historically been a limitation for MRI due to the slow encoding process, need to wait for relaxation/recovery, and time-consuming reconstruction. This talk will summarize how we overcome these limitations, and will summarize several current and futuristic diagnostic applications of RT-MRI.

1345 Health Sciences Learning Center (HSLC) 4:00 - 5:00 P.M.