

**Project 1 (Raicu):** “Content-based medical image retrieval systems.” This project will develop a content-based image retrieval (CBIR) system for the Lung Image Database Consortium (LIDC) pulmonary nodule dataset. We will 1) compare three methods of texture feature extraction (Haralick co-occurrence, Gabor filtering and Markov random fields), 2) implement various similarity measures, 3) evaluate the performance of the system with respect to precision and recall and 4) integrate the system with existing medical systems at Northwestern Memorial Hospital Lab.

