Full Name (English):	Assoc. Prof. Xiqiang Zheng	Recent Photo 
Affiliated Institution and Title (English):	Voorhees University, USA	

Biography:
Dr. Zheng is an associate professor of mathematics and computer science at Voorhees University located in South Carolina of the USA. He has been performing research on image processing for more than 20 years; and has published more than 10 research papers. In recent years, his research has been supported by a National Science Foundation and two Henry C. McBay Faculty Research Fellowships in the USA. His research topics include CT image reconstruction and morphological operations utilizing optimal sampling grids as well as image segmentation utilizing statistical region merging and nonlinear transformations.

Speech Title:
Comparisons of some image segmentation algorithms for automatic feature delineation and measuring in medical images

Speech Abstract
Image segmentation in this presentation is to divide a digital image into some homogeneous groups or regions such that the features within each region vary little and the feature difference on the adjacent regions should be as big as possible. It can be applied to fields such as medical image analysis. This presentation is to compare some automatic image segmentation algorithms for some CT images. The algorithms considered include mean-shift, graph-cut, morphological watershed, entropy, and statistical region merging as well as the combinations of those algorithms and nonlinear transformations. The pros and cons of those algorithms for CT image segmentation will be shown.