

## *Major Research Area Paper Presentation*

*Analysis of Soft Tissue Tumors in MRIs: Case study  
Soft Tissue Sarcomas*

*by  
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*For the Ph.D. degree in Computer Science & Engineering*

The machine learning and data mining methods have been utilized to develop computer-aided (CAD) system to analyze the biomedical imaging data and evolve new gates for extensive image guided diagnosis analysis. The goal of this paper is to review CAD systems which are used Magnetic Resonance Imaging (MRI) in the case of tumor development, especially Soft Tissue Sarcomas (STS). CAD systems need continuous and comprehensive endeavors to design and construct a model to be practical in course of tumor development and outcome prediction. In this paper, we try to consider the efforts have been done to quantify tumor radiology by applying machine learning models and also current techniques to tumor detection, segmentation and diagnosis prediction. In each section, several related approaches are explained.

*Wednesday, November 18, 2015*

*3:00 P.M.*

*ENB 313*

**THE PUBLIC IS INVITED**

### *Examining Committee*

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