

Imaging as Biomarkers of Disease

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Personal Background

- Researcher in Computer Vision and Image Analysis
- Master's in Electrical Engineering
- Interests:
 - Medical Image Analysis
 - Fuzzy Logic
- Publications:
 - Journal(s): IEEE Geosciences and Remote Sensing Letters
 - Conference(s): ICASSP, ISCAS etc



Imaging as Biomarkers of Disease

- Aim:
 - Improve therapeutic management of the patients specially children by integrating imaging evaluation into routine clinical assessment.
- Task(s):
 - Development of a training set for imaging assessment in JIA
 - Study of new imaging modalities for the following:
 - Identification of sensitive markers of structural damage
 - Identification of imaging predictors of erosive disease
 - Validation of new imaging modalities for their application in JIA clinical trials

Research Plan

Milestones (2013 - 2014)	Sep - Dec	Jan - Apr	May - Aug
Identifying Problems faced by physicians in analysis of JIA			
Review and analysis of Computer Vision algorithms for arthritis			
Understanding Image formulation in new Imaging modalities			
Computer Assisted Analysis of US images			
Image registration between and integration between different modalities			

Thank You!