NPTEL Video Course - Electrical Engineering - NOC:Medical Image Analysis

Subject Co-ordinator - Prof. Debdoot Sheet

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable  │  MP3 Audio Lectures - Available / Unavailable


Lecture 1 - Introduction to Medical Image Analysis
Lecture 2 - X Ray and CT Imaging
Lecture 3 - Magnetic Resonance Imaging
Lecture 4 - Ultrasound Imaging
Lecture 5 - Optical Microscopy and Molecular Imaging
Lecture 6 - Texture in Medical Images
Lecture 7 - Region Growing and Clustering
Lecture 8 - Random Walks for Segmentation
Lecture 9 - Active Contours for Segmentation
Lecture 10 - Systematic Evaluation and Validation
Lecture 11 - Decision Trees for Segmentation and Classification
Lecture 12 - Random Forests for Segmentation and Classification
Lecture 13 - Neural Networks for Segmentation and Classification
Lecture 14 - Deep Learning for Medical Image Analysis
Lecture 15 - Deep Learning for Medical Image Analysis (Continued...)
Lecture 16 - Retinal Vessel Segmentation
Lecture 17 - Vessel Segmentation in Computed Tomography Scan of Lungs
Lecture 18
Lecture 19 - Tissue Characterization in Ultrasound
Lecture 20

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