

Lecture 2.

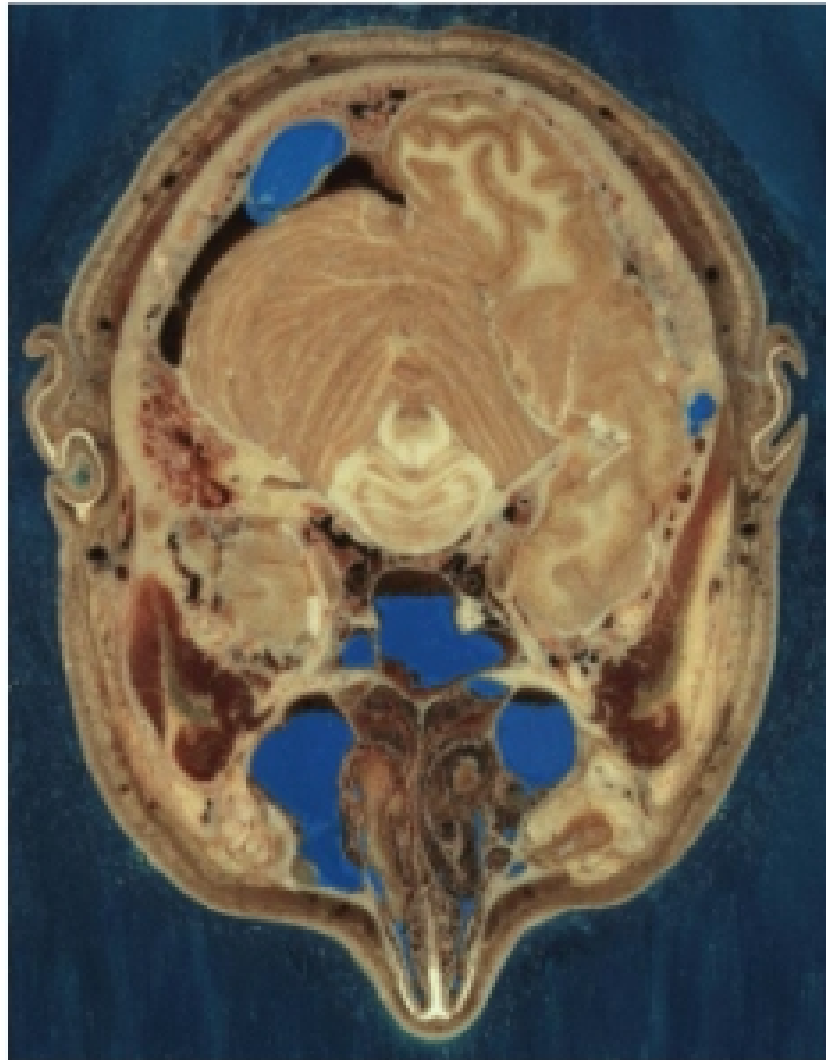
Introduction to Digital Image Processing

Digital Image and Digital Image Processing

- Image – A two-dimensional signal that can be observed by human visual system
- Digital image – Representation of images by sampling in time and space.
- Digital image processing – perform digital signal processing operations on digital images

Examples of DIP:

CT: Computer Tomography



- <http://www.nlm.nih.gov/research/visible/image/head.jpg>
- Section through Visible Human Male - head, including cerebellum, cerebral cortex, brainstem, nasal passages (from Head subset)
- This is an example of the “visible human project” sponsored by NIH
- DIP techniques applicable:
 - Enhancement
 - Segmentation