The applications of imaging technologies are all around us. The health industry produces an abundance of medical images; for instance, diagnostic techniques such as radiology, histopathology, and computerized tomography (CT) have produced an explosion in the number of medical images now stored by most hospitals. Other domains that rely heavily on images are military applications, satellite imaging, mapping, mining, urban planning, intellectual property, education and training, and fashion and design.

The first part of the talk will provide the audience with the basics concepts of Image Processing (IP); the second part will describe the application of IP to the medical domain; more specifically, the application describes the current research work of the CTI Visual Computing Group in human body organs’ classifications (for spleen, backbone, heart, kidneys, and liver) using low-level information (pixels) from abdominal and chest CT images.

by Dr. Daniela Raicu
Friday, January 16th 2004, 5:30pm–6:30pm
Loop Campus, CTI building, Room # 226
Pizza & Refreshments will be provided

About The Speaker
Daniela Stan Raicu is an Assistant Professor of CTI. She received her B.S. in Mathematics from University of Bucharest, Romania (1993), M.A. in Computer Science from Wayne State University, Michigan (1999), and her Ph.D. in Computer Science from Oakland University, Michigan (2002). Her research interests include medical imaging, multimedia indexing and retrieval, pattern recognition, data mining and knowledge discovery. Daniela has published numerous papers in her research areas and is actively involved in organizing different conferences and workshops in Multimedia Retrieval. She is a member of UPE, ACM, IEEE and SPIE. For more information, visit her homepage at http://facweb.cs.depaul.edu/dstan/

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