

**THE CONCORDIA INSTITUTE FOR INFORMATION SYSTEMS ENGINEERING
IS PLEASED TO PRESENT THE FOLLOWING GUEST LECTURE IN
OUR CIISE SEMINAR SERIES**

**Mr. Mukti Nath Ghimire, M.A.Sc. Student
Electrical and Computer Engineering**

Scenes Modeling and Classification using Visual Words

Human vision is the primary source of information about the outside world. The information storage in terms of images, videos animation and graphics has been increasing day by day due to the advent of digital technology. Proliferation of such contents has created a need for a generic Content Management System (CMS) which can efficiently manage, locate specific images and retrieve them. Object modeling is a foremost and an important task in any CMS. There are many approaches for object modeling. Using analogy to bags-of-words technique for text modeling, visual scenes modeling using Bag-of-keypoints (BOK) as visual words is one of them. The BOK method is vector quantization of affine invariant descriptors, such as SIFT, and corresponds to a histogram of the number of occurrences of particular image patterns in a given image. This presentation talks about the fundamental principles behind this technique and discusses on it.

BIOGRAPHY: Mukti Nath Ghimire got his bachelor in electronics engineering from Tribhuvan University, Nepal. He is currently a Master of Applied Science student in ECE at Concordia University. His research topic mainly focuses on object modeling and machine learning techniques.

Thursday, March 12, 2009

**16:00 – 17:00
EV003.309**

Refreshments will be served
(1515 St. Catherine Street West)