The high resolution and rapid request-to-acquisition time of Formosat-2 imagery for polar research resulted in several outstanding digital multi-spectral images of recent climate-related events in both Antarctica and the Arctic. Applications of polar Formosat-2 images discussed in detail here include ice shelf break-up process studies revealed by the high resolution (2 m pixel size) and multi-spectral character of the sensor, ice shelf front and rift-ing change detection in image pairs, and both velocity mapping and velocity change detection using image-to-image cross-correlation on image pairs and series of image pairs. We discuss four areas of interest for which Formosat-2 imagery provided important data: the Antarctic Peninsula's Wilkins Ice Shelf disintegration of February-March, 2008; the Ward Hunt Ice Shelf retreat in July-August, 2008, in the Arctic coast of Ellesmere Island; glacial velocity mapping from Formosat-2 image pairs for Kangerlugssuaq Glacier in southeastern Greenland during the summer of 2008; and velocity mapping for the central Crane Glacier in the Larsen B region of the Antarctic Peninsula spanning the period February 2008 to March 2009.

時間：5/20 星期三 11:00am-12:30pm
地點：總圖書館地下室一樓 會議廳