

# **CENTER FOR SOFT COMPUTING RESEARCH INDIAN STATISTICAL INSTITUTE**

**Title:** MORPHOLOGICAL ANALYSES OF DIGITAL ELEVATION MODELS (DEMs) AND ASSOCIATED FEATURES

**Speaker:** **Dr. B S Daya Sagar**  
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**Venue:** **CSCR Meeting Room** (1st Floor, R. A. Fisher Bhavan)

**Date:** **September 10, 2008 (Wednesday)** **Time: 5:00 PM**

**Abstract:**

Raster DEMs generated from remotely sensed data acquired via various sensing mechanisms offer rich details. Development of approaches to extract significant features (notably unique connectivity networks) from such DEMs has received wide attention in recent past. Such extracted features would pave a way to characterize terrestrial features in quantitative manner. This presentation provides an overview on how morphological operations can be applied on DEMs and associated features—to (i) extract unique connectivity networks, (ii) decompose non-network space into non-overlapping disks of various radii, and (iii) prune the branched network—to characterize the terrestrial surfaces.