

**Prof.Ravi Kannan**

Title: Sampling on the Fly

Abstract:

Sampling is a classical technique to deal with large amounts of data. In the last decade, computer scientists have developed techniques for sampling from data without storing it-this involves folding into a running sample each piece of data without much overhead. We will discuss applications to finding frequency moments of streaming data, histograms, sketches and other applications. Both uniform and adaptive sampling are useful in different contexts.