

Date & Time

17 August 2018 (Friday) @ 3.15 pm

Venue

Al-Farabi Seminar Room,
Second Floor, INSPEM

Presenter

Prof. Dr. Partha Lahiri

Visiting Scientist
Department of Mathematics,
University of Maryland, USA



Topic

Statistical Data Integration (SDI) with Applications

Abstract

In this talk, I will discuss three different situations for statistical data integration. The first application concerns estimation of smoking prevalence for the fifty U.S. states and the District of Columbia using the 2008 National Household Interview Survey (NHIS) data in conjunction with a number of potentially related auxiliary variables obtained from the American Community Survey (ACS), a large ongoing complex survey by the U.S. Census. The second application concerns hospital profiling, an important topic in health policy research. In this context, I will explain how SDI can offer a sensible way to integrate data on hospital caseloads in setting standards and identifying hospitals that do not meet such standards. Finally, in the last application, I will illustrate how big transportation historical data can be used in SDI to provide short time travel forecasting.