Statistics Seminar Series

Session 2, 2009

Louise Ryan

CSIRO, Sydney

Computationally efficient methods for the analysis of spatially varying disease rates

We discuss the use of a simple algorithm that facilitates the analysis of very large hierarchically-based datasets. The method is applied to the spatio-temporal analysis of the association between social stress and heart disease in NSW. The results confirm that poor outcomes are associated with high levels of social disadvantage. However, the strength of the association is seen to be modified by age and gender. This talk is based on joint work with Subharup Guha from University of Missouri.

About the speaker: Dr Louise Ryan is Chief of CSIRO Mathematical and Information Sciences since February 2009, after many years as Professor at Harvard University in the USA. At CSIRO, she is leading a group of 150 people in mathematical and statistical research areas as diverse as financial risk, climate change and cell biology. Her own statistical research focuses on developing computationally efficient approaches to the spatio-temporal analysis of large health databases. She is currently a council member for the International Biometric Society.

Time: 4pm, Friday, 18th September
Location: Room RC4082

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