

Modern Experimental Design – Some developments and applications

Since the “Design of Experiments” book by Fisher and the introduction of balanced incomplete block designs by Yates, there has been an explosion of ideas for the design and analysis of experiments.

Much of the development has been driven by the power and availability of computers, which have allowed the construction of experimental designs for a wide range of parameter values, and for their analysis using mixed-models.

This talk will discuss some of the developments in the construction of efficient experimental designs for use in practice. Examples will be presented to show the use of experimental design within the ANU Statistical Consulting Unit.