

Editorial

ORiON is usually packed with interesting and diverse papers. This issue is no exception, with papers ranging from forecasting, measuring the effectiveness of players in cricket to location of facilities. I am sure that all readers and subscribers will find something interesting to read in this issue.

The first paper is authored by Andréhette Verster, Delson Chikobvu and Caston Sigauke. Their paper is titled “Analysis of the same day of the week increases in peak electricity demand in South Africa.” The paper considers real life data from Eskom, South Africa’s power utility company, to model the same day of the week increases in peak electricity demand. A generalised Pareto-type distribution that requires only one parameter to set was used in the model. The model increases the accuracy of the estimation of future demand loads.

The second paper, titled “An analysis of the efficiency of player performance at the 2011 Cricket World Cup” by Ian Durbach and Tatenda Gweshe suggests a data envelopment analysis together with a stochastic multicriteria acceptability analysis method to measure the effectiveness of batsmen and bowlers in limited overs cricket. They analysed data from the 2011 Cricket World Cup. The effect that non-discretionary variables like the cricketing resources available to a player have on his efficiency is controlled for, allowing for a fairer assessment across players from different countries.

Lienki Viljoen and Sarel Steel authored the third paper titled “Identifying secondary series for stepwise common singular spectrum analysis.” This paper considers common singular spectrum analysis as a technique which can be used to forecast a primary time series by using the information from a secondary series. A complication to this approach is that not all secondary series provides useful information. This paper proposes how the secondary series should be selected for inclusion from several secondary series to improve the forecast accuracy. The effectiveness of this method is shown by means of empirical studies.

The final paper by Ehsan Monabbati is titled “Uncapacitated facility location problem with self-serving demands” and considers a generalised uncapacitated facility location problem in which some points (called self-serving points) can only be served by a new server at that point. A heuristic based on the dual formulation of this problem is proposed and numerical experiments indicate that near optimal solution is obtained by means of this method.

As always, I would like to thank all the authors who contributed to this issue. I want to encourage subscribers and readers of ORiON to seriously consider ORiON as a vehicle to publish their quality research. On the other hand, it would be impossible to control the quality of papers if reviewers do not contribute their time to review papers. I would thus like to thank all the reviewers who contributed to this issue. I believe that the feedback from the reviewers have increased the quality of all the papers.

Finally I would also like to thank my editorial team. The journal manager Martin Kidd and the typesetting assistant Anton de Villiers who are both performing excellent jobs in respectively handling the management of ORiON and the typesetting of papers in L^AT_EX. I appreciate all the hard work and dedication that both of you pour into ORiON.

My best wishes to all the authors, reviewers, subscribers and readers of ORiON for the festive season. May you all experience a happy and prosperous 2014!

Stephan Visagie
November 2013