

SACJ 52, July 2014

Steady Growth

Philip Machanick

Department of Computer Science

Rhodes University, Grahamstown

sacj.editor@gmail.com

1 In this issue

This is the largest issue; since I took over editing in mid-2012. In addition to seven papers in this issue, we have papers under review for two special issues. See my *SACJ* 50 editorial for guidelines on special issues and extended conference papers.

We welcome to this issue two new Computer Science editors, Ian Sanders and Reinhardt Botha. They add to the diversity of skills in our editorial team.

We have recently added a request to authors, in line with practice in many journals, to propose potential reviewers. We may not necessarily use these reviewers, but they are an aid in cases where your work is in an area not familiar to our editors.

On now to what is in this issue. We have an interesting mix of papers covering software quality, education in a range of disciplines, semantic web services and network security.

Daniel Acton *et al.* write about “Quality in software development: A pragmatic approach using metrics”. They survey models of software quality, and evaluate their own approach.

Alexander *et al.*'s paper, “Self-perceived intrinsic and extrinsic differences between Information Systems and Computer Science university students”, explores the age-old conundrum of what distinguishes computer science students from information systems students – with some surprising results.

Noluxolo Kortjan and Rossouw von Solms, in “A conceptual framework for cyber-security awareness and education in SA”, propose a systematisation of cyber-security awareness. They apply a design science approach to verify their approach.

Mathee *et al.* explore “Tensions in the adoption of

e-Learning in the mining industry of South Africa”. They provide recommendations on how e-Learning can be made more effective by reducing resistance to its use, based on an activity-theory analysis.

Mtsweni *et al.* write about “iSemServ: A model-driven approach to developing semantic web services”. They introduce *iSemServ*, a model-driven approach, which they design and develop using design science.

Elmarie Papageorgio's paper, “The integration of computerised accounting in the accounting curriculum as an educational learning curve for students entering the business world”, reports improved knowledge of Accounting I arising from integration of computer methods in the curriculum.

Ralf C. Staudemeyer and Christian W. Omlin describe “Extracting salient features for network intrusion detection using machine learning methods”. They use the widely-used KDD Cup '99 data set to demonstrate a general method.

2 A note on ACM Categories

The ACM Computing Classification System is in wide use, and we use it in this journal. The 1998 version of the standard is still commonly used, though a new standard was accepted in 2012, with a very different approach. The 1998 system uses a hierarchical alphanumeric system of labels (<http://www.acm.org/about/class/1998>). The 2012 system (<http://www.acm.org/about/class/class/2012>) is also hierarchical, but eschews compact labels. Since it will be some time before the 1998 system is considered obsolete, for the time being, we accept papers in both formats, as can be seen in this issue.
