Three international book publications for School of IT

The School of Information Technology in the Faculty of Engineering, Built Environment and Information Technology boasts with the launch of three internationally published books in three months. This reinforces the School's commitment to research excellence.

C# 3.0 Design Patterns, published by O'Reilly, was written by Prof Judith Bishop. Prof Bishop specialises in the application of programming languages to distributed systems and web-based technologies. Her 14 books on languages and programming written over 25 years have been published in six languages. She is the top National Research Foundation (NRF)-rated woman computer scientist in South Africa and has published over 80 journal and conference papers. She was honoured as the Department of Science and Technology's Woman in Science for 2005, and received the Fellowship Award of the Computer Society of South Africa in November 2008, in recognition of her achievements and long-term commitment to the objectives of the society.

C# 3.0 Design Patterns draws on new *C#* 3.0 language and .NET 3.5 framework features to implement the 23 foundational patterns known to working developers. There are plenty of case studies that reveal how each pattern is used in practice, as well as an insightful comparison of patterns and where they would be best used or combined.

Computational Intelligence: an introduction (2nd edition) published by Wiley, was written by Prof Andries Engelbrecht. Prof Engelbrecht holds a SARChI Chair in Artificial Intelligence and leads the Computational Intelligence Research Group. He is an associate editor of the IEEE Transactions of Evolutionary Computation and serves on the editorial boards of another four international journals. He has 130 publications in journals and conference proceedings, is the author of three specialised text books, and has over 1 300 citations.

This book offers an in-depth exploration into the adaptive mechanisms that enable intelligent behaviour in complex and changing environments. The main focus of this easily understandable text is on the computational modelling of biological and natural intelligent systems, encompassing swarm intelligence, fuzzy systems, artificial neural networks, artificial immune systems and evolutionary computation.

Coping with continuous change in the business environment, published by Chandos Publishing, was co-written by Prof Derrick Kourie, Dr Antonie Botha and Ms Retha Snyman. It is the result of seven years of research on managing knowledge in a business environment that emanated in Dr Botha's PhD thesis (for which Prof Kourie was his supervisor). Ms Snyman, a specialist in publishing studies, contributed to the publication by rewriting the academic research into an easily understandable textbook.

Coping with continuous change in the business environment is aimed at knowledge management professionals and students in the field of information science, information systems and software engineering. It provides answers to the 'what-is' and 'why-is' questions with regard to knowledge management, and investigates the concepts, elements, drivers and challenges involved in knowledge management.

The authors attribute their publication achievements to the excellent support that they receive from the Dean of the Faculty of Engineering, Built Environment and Information Technology, Prof Roelf Sandenbergh, as well as the enabling environment for publications that is provided under the leadership of Prof Jan Eloff, former Chairperson of the School of Information Technology, in support of the University's strategy of internationalisation and research excellence.

→ *Prof Roelf Sandenbergh, Dean: Engineering, Built Environment and Information Technology (right) presents Prof Judith Bishop with a framed cover of her new book, C# 3.0 Design Patterns.*

→ *Prof Andries Engelbrecht celebrates the launch of his new book, Computational Intelligence: an introduction, 2nd edition.*