

## *Preface*

### *Research Trends in This Issue of AJICT*

It is a pleasure to once again present to you the second issue of the AJICT. Since the publication of the first issue several important milestones have been reached. Firstly, the number of online readers of the Journal has grown significantly from a modest beginning to a stage when the review process can now be drawn from the list of readers much more easily.

Secondly, the AJICT continues to enjoy the patronage and review inputs of international reviewers drawn from Europe, the USA, the Pacific region and the African continent. The quality of the review process has grown significantly and we are grateful to those international reviewers for giving us their time and quality articles for publication.

Thirdly, indexing of the AJICT started from the maiden issue first in the OJS. From the third Issue of the Journal, it will be indexed by the ISI.

The papers in the second issue are derived from several critical areas. The first paper by Marr'on et al reports on an application of sensors in Germany for bridge monitoring for structural defects. Over the last couple of years, the application of sensor networks has grown steadily at the international level and this paper provides a basis for those researchers seeking new areas of inter-disciplinary research.

The second paper on orthogonal frequency division multiplexing (OFDM) discusses delay diversity in OFDM systems. Diversity has often been seen as a problem in telecommunication. However, in recent years, diversity including multipath, delay and spatial diversities have been shown to be useful techniques for achieving broadband wireless communications.

The paper on ultra wideband (UWB) antennas reports on recent advances in UWB antenna design. The authors have shown that both electric and magnetic monopole monopoles can lead to omni-directional UWB antennas.

Iera and Molinaro et al discusses the management of e-Services in heterogeneous networks. They have proposed situation and location as a powerful means of trade-off among user requirements, application constraints and the underlying network conditions.

The fifth paper in this issue deals with the important subject of Internet measurements. In a region of growing Internet usage, this paper provides a strong basis for those offering Internet services and in particular the African sub-region with the fundamentals and tools for measuring their internetworking performance.

## Editorial Team (Issue 2)

**Prof. (Adj<sup>+</sup>) Johnson Agbinya** (Chief Editor)  
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**Johnson I. Agbinya** received his PhD in Electronic Engineering at La Trobe University in 1994 and subsequently joined Australia's Premier

Research Institute, Commonwealth Scientific and Industrial Research Organisation (CSIRO) as a Senior Research Scientist where he undertook research in biometrics, pattern recognition and signal processing. At CSIRO he developed patented speech recognition and face recognition systems. He joined Vodafone Australia in 2000 as a Principal Engineer responsible for its industrial research administration on mobile and wireless communication where he served as its sole representative in several international standard bodies and the Australian Telecommunication CRC Executive Committee. He also contributed to Vodafone Australia's preliminary design of 3G radio access network in the Emerging Technologies Group. He also represented Vodafone Australia in the Vodafone Research Group from where he was spotted and appointed as Adjunct Professor in 2002 at the Department of Computer Science, University of the Western Cape (UWC). He is a key member of the Telkom / Cisco Centre of Excellence in Internet Computing at UWC.

Prof. Agbinya is currently a Faculty member in Information and Communication Group at the University of Technology, Sydney. His research interests are in wireless communications, sensor networks, digital identity management systems, networks on mobile platforms and in uncovered areas.

**Prof. H. Anthony Chan** (Editor)

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**H. Anthony Chan** received his PhD in physics at University of Maryland, College Park in 1982 and then continued post-

doctorate research there in basic science. After joining the former AT&T Bell Labs in 1986, his work moved to industry-oriented research in areas of interconnection, electronic packaging, reliability, and assembly in manufacturing, and then moved again to network management, network architecture and standards for both wireless and wireline networks. He had designed the Wireless section of the year 2000 state-of-the-art Network Operation Center in AT&T. He was the AT&T delegate in several standards work groups under 3rd generation partnership program (3GPP). During 2001-2003, he was visiting Endowed Pinson Chair Professor in Networking at San Jose State University. In 2004, he joined University of Cape Town as professor in the Department of Electrical Engineering.

Prof. Chan is Administrative Vice President of IEEE CPMT Society and had chaired or served numerous technical committees and conferences. He is distinguished speaker of IEEE CPMT Society and is in the speaker list of IEEE Reliability Society since 1997.

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**Don A. Adjeroh** received the Ph.D. degree in computer science from the

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