Title of Invited Talk

"On the Intertwining of Information Hiding and Multimedia Security: A personal Perspective"

Abstract

Over the past decade or so, the tremendous growth and proliferation of multimedia content has led to the important need to protect and verify the content integrity, particularly if the data are to be used for law enforcement, media, legal and financial applications. This has resulted in the research and applications of information hiding, and multimedia security and forensics becoming more and more integrated and intertwined and as clearly demonstrated, amongst other common activities, with the merging of the two prestigious and popular conferences of IH and ACM MMSec into ACM IHMMSEC'2013.

In this keynote presentation, I will present a personal perspective on some of the various changes, challenges, threats and opportunities in the areas of watermarking, steganography/steganalysis, and multimedia security and forensics that I have faced and experienced since I first stumbled upon digital watermarking and steganography some 16 years ago which I am still very much actively involved today. The talk with provide a chronological overview of some key milestones related to watermarking, information hiding and digital forensics, as well as including some personal events from setting up and managing a University spinout, to technology transfer and product commercialization.

Bio

Professor Anthony T.S. Ho holds a Personal Chair in Multimedia Security and is currently Head of Department of Computing, University of Surrey since 2010. He also leads the Multimedia Security and Forensics research group in the Department. He was the recipient of the Institution of Engineering and Technology (IET) Innovation in Engineering Award under the Security category for his research and commercialization work on digital watermarking in 2006. Professor Ho obtained his BSc(Hons) in Physical Electronics from Northumbria University in 1979, his MSc in Applied Optics from Imperial College London in 1980 and his PhD in Digital Image Processing from King's College London in 1983. After graduation, he worked in technical management positions in industry for 11 years in the UK and Canada.

From 1994 to 2005, Professor Ho was a Senior Lecturer and then Associate Professor at Nanyang Technological University (NTU), Singapore. While at NTU, he co-founded and became CEO of DataMark Technologies (DMT) in 1998, a company specialises in digital watermarking and steganography. DMT is now a subsidiary of Singapore Technologies Engineering. Professor Ho has published more than 130 articles in international journals and conference proceedings as well as 8 international patents granted related to

watermarking and steganography. He recently received a best paper award for a co-authored conference paper on camera model identification from IEVC 2012. He is the Editor-in-Chief of the international journal Information Security Technical Report published by Elsevier.

Professor Ho was General Chair for the 8th International Workshop on Digital Watermarking (IWDW) held at the University of Surrey in 2009 and co-Editor for two Springer Proceedings on Digital Watermarking from IWDW08 and IWDW09. He is a Fellow of Institution of Engineering and Technology (FIET), Fellow of Institute of Physics (FInstP), Fellow of British Computer Society FBCS) and Senior Member of IEEE.

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