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Speaker's Biography

Paper code	20110057		
Title of Paper	Extremely Fast Simulator for Decoding LDPC Codes		
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Speaker's Biography (Please detail below special points of background experience)			
<p>Prof. Francis Lau received the BEng(Hons) degree with first class honors in electrical and electronic engineering and the PhD degree from King's College London, University of London, UK. He is a Professor and Associate Head at the Department of Electronic and Information Engineering, The Hong Kong Polytechnic University, Hong Kong.</p> <p>He is the co-author of <i>Chaos-Based Digital Communication Systems</i> (2003) and <i>Digital Communications with Chaos: Multiple Access Techniques and Performance Evaluation</i> (2007). He has published over 200 international journal and conference papers. He is also a co-holder of two US patents, one pending US patent and one pending China patent. His main research interests include channel coding, cooperative networks, wireless sensor networks, applications of complex-network theories, chaos-based digital communications, and wireless communications.</p> <p>He served as an associate editor for <i>IEEE Transactions on Circuits and Systems II</i> in 2004–2005 and <i>IEEE Transactions on Circuits and Systems I</i> in 2006–2007. He was also an associate editor of <i>Dynamics of Continuous, Discrete and Impulsive Systems, Series B</i> from 2004 to 2007 and was a co-guest editor of <i>Circuits, Systems and Signal Processing</i> for the special issue "Applications of Chaos in Communications" in 2005. He is currently a guest associate editor of <i>International Journal and Bifurcation and Chaos</i>.</p>			