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Speaker's Biography

Paper code	20120013		
Title of Paper	Programming Graphics Processing Units for the Decoding of Low-Density Parity-Check Codes		
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Speaker's Biography (Please detail below special points of background experience)

Prof. Francis Lau received the BEng(Hons) degree 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. He is also a senior member of IEEE.

He has published over 200 international journal and conference papers. He is the co-author of Chaos-Based Digital Communication Systems (2003) and Digital Communications with Chaos: Multiple Access Techniques and Performance Evaluation (2007). He is also a co-holder of two US patents and two pending US patents. His main research interests include channel coding, cooperative networks, wireless sensor networks, applications of complex-network theories, chaos-based digital communications, and wireless communications.

He served as an associate editor for *IEEE Transactions on Circuits and Systems II* in 2004—2005, *IEEE Transactions on Circuits and Systems I* in 2006—2007, *International Journal and Bifurcation and Chaos in 2010-2011, Dynamics of Continuous, Discrete and Impulsive Systems, Series B* from 2004 to 2007, and was a co-guest editor of *Circuits, Systems and Signal Processing* for the special issue ``Applications of Chaos in Communications'' in 2005.