Curriculum Vita

Xiaohong Peng
BEng, MSc, PhD, CEng, SMIEEE

E-mail: xiahong.peng@bcu.ac.uk

EDUCATION

BEng (Honours) in Electrical Engineering, Southwest Jiaotong University, Emei, China, 1982.
MSc (Distinction) in Electronic Engineering, Southwest Jiaotong University, Emei, China, 1985.
PhD in Digital Communications, University of Manchester, Manchester, UK, 1995.

WORK EXPERIENCE

- 2020 – present: Visiting Professor in the Faculty of Computing, Engineering and the Built Environment, Birmingham City University, UK.

- 2002 – 2020: Senior Lecturer in the Department of Electronic and Electrical Engineering, School of Engineering & Applied Science, Aston University, UK. Head of the Adaptive Communications Networks Research Group.

- 2001: Consultant Engineer at Roke Manor Research Ltd.

- 1998 – 2001: Lecturer and then Senior Lecturer in the School of Electrical, Electronic & Information Engineering at South Bank University London. Course Director of MSc Telecommunications and Computer Networks.

- 1997-1998: Research Fellow in the Department of Electronics, University of York.

- 1995 – 1997: Postdoctoral Research Associate in the Electrical Engineering Division, School of Engineering, University of Manchester.

RESEARCH ACTIVITES

I have been actively involved in research in the following areas:

- Wireless mobile communications and networking
- Wireless sensor networks and IoT
- QoE for video streaming in heterogeneous networks
- Vehicular communications and connected vehicles
- Information theory and error control coding

I am a pioneer in developing effective QoE metrics for video streaming and applying them to LTE (4G) & 5G mobile networks. I hold a US patent (US8689275B2) on optimal caching for partitioned video storage systems. I have led more than 20 research projects sponsored by research councils such as EPSRC, Royal Academy of Engineering, and industry in collaboration with leading companies such as British Telecom (BT), Xyratex, BlackBerry, BAE Systems, and

Jaguar Land Rover. Some of them are listed below.

I have successfully supervised 9 PhD students and more 45 MSc students. I have served as External Examiner for 11 PhD candidates at Cambridge, Warwick, Manchester, Newcastle, Loughborough, Bradford, Reading, West Scotland universities.

PROFESSIONAL ENGAGEMENT

Professional Membership

- Senior Member of IEEE, since 2011
- Royal Chartered Engineer, since 1997
- Member of the IEEE ComSoc Signal Processing for Communications and Electronics Technical Committee (SPCE TC)
- Member of EPSRC Peer Review College, since 2006

International Conference Organisation

I served as the General Chair, Technical Programme Chair, Workshop Chair, Publication Chair, Symposium Chair of a number of international conferences, and as the Technical Programme Member (TPC) of 18 international conferences, such as:

- General Chair: MultiCom-2015
- Technical Programme Chair: International Workshop on Internet of Vehicles-2014; MultiCom-2011; MultiCom-2012.
- Publication Chair: SCALCOM-2010; CPSCom-2017; SmartCity-2018.
- Workshop Chair: HPCC 2012.

Editorial Contributions

- Editorial Member: IET Journal of Wireless Sensor Systems, 2010-19.
- Lead Guest Editor: Special Issue on "Intelligent Wireless Sensor Networks and Applications" of IET Journal on Wireless Sensor Systems, 2014,
- Guest Editor: Special Issue on "Ubiquitous Context-Awareness and Wireless Sensor Network" of International Journal of Distributed Sensor Networks, 2015.

PUBLICATIONS

- 132 peer-reviewed papers.
- 4 papers with Best Paper Award
- One paper awarded as Top cited article
- 2 Invited Speech at IEE Colloquium and SONet Symposium
- One Invited Tutorial at IEEE WPMC'2014

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