

# Call for Papers

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### Special Issue:

## Creating A Smarter Environment through the Advancement of Communication Systems, Networks and Applications

In recent years the word “smart” has been extensively used in numerous technology domains ranging from smart devices to smart cities. Such “smart” technologies generally aim at creating a smart environment to shape human lifestyles and improve human wellbeing. A smarter environment not only requires continuous improvements in all underlying building blocks cutting across communication systems, networks, devices and applications, but also, crucially, seamless orchestration of these vertically interdependent and horizontally interconnected systems. Regardless of the scale of operations and application scenarios, the core enablers of a smart environment involve some forms of data acquisition, actions or actuators, distributed or centralized data collection, data processing and decision making. In addition, machine-to-machine communication is becoming a paramount concern as devices and networks are persistently required to communicate and interact with each other more efficiently and seamlessly.

The aim of this Special Issue is to publish research papers reflecting the most recent advancements in communications systems, networks devices and applications which contribute towards a smarter environment.

#### Topical areas covered in this Special Issue include, but are not limited to:

- Smart sensors, devices and appliances
- Smart communication systems, networks
- Smart applications and services
- Smart home, office, building, enterprise
- Smart mobility
- Smart grid, energy
- Smart environment, living, space
- Smart city, nation
- Smart governance, economy
- Internet of Things and sensor networks for smart environment
- Security and privacy issues in smart environment
- Clouds technologies for smart environment
- Big data processing for smart environment applications

All submissions are subject to the journal's peer-review procedures. The authors should follow the journal's Author Guide at <http://digital-library.theiet.org/journals/author-guide> when preparing papers for submission to the Special Issue.

### Important dates:

**Submission of Manuscript**  
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**Publication Date**  
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## About our Special Issue Guest Editors

**David Chieng** is currently the head of Heterogeneous Wireless Network (HetNet) laboratory in MIMOS Wireless Communication Cluster. Prior to this he spent 4 years at the BT Malaysian Research Centre leading the broadband wireless research group. While at BT he served as work package manager in EU ICT FP7 CARMEN from 2008-2010. From 1999-2002, he was the principal researcher in project BONDS (Brokering Open Network Differentiated Services) funded by Fujitsu Telecommunications Europe Ltd.

From 2003-2006, he was a lecturer, then senior lecturer at the Faculty of Engineering, Multimedia University, Malaysia. David received his MSc and PhD from the School of Electrical and Electronic Engineering, Queen's University of Belfast, Northern Ireland, U.K., in 1998 and 2002 respectively.

He has authored and co-authored over 50 publications. He has also filed 16 patents in the area of wireless and computing. He has served as a guest editor for IEEE Communication Magazine Feature Topic, TPC-chair for IET ICWCA'12, TPC for various major international conferences such as ICC, VTC, WCNC.

**Kok-Lim Alvin Yau** is currently an Associate Professor at the Department of Computer Science and Networked Systems, Sunway University. He researches, lectures and consults in cognitive radio, wireless networking and applied artificial intelligence. He received his B. Eng. degree in Electrical and Electronics Engineering (First Class Honours) from the Universiti Teknologi Petronas, Malaysia (2005), a MSc (Electrical Engineering) from the National University of Singapore (2007), and a PhD (Network Engineering) from Victoria University of Wellington, New Zealand (2010).

He was awarded the 2007 Professional Engineer Board of Singapore Gold Medal for being the best graduate of the MSc degree in 2006/07. He has authored and co-authored over 40 publications in international journals, book chapters, and conferences. He is a regular reviewer for over 15 journals, including IEEE journals and magazines, Ad Hoc Networks, IET Communications, and others.

He serves as TPC and reviewer for various major international conferences including ICC, VTC, LCN, Globecom, AINA, etc. He also served as General Co-chair for IET ICFCNA'14 and Co-chair Organising Committee for IET ICWCA'12.

**Qiang Ni** is a Professor (Chair) and the Head of Communications Group at the School of Computing and Communications, Lancaster University, Lancaster, U.K. Prior to that, he led the Intelligent Wireless Communication Networking Group at Brunel University, London, UK.

His main research interests are communications, networking, Cognitive Radio and Smart Grid technologies. He has led various UK and EU projects in these fields. Prof Ni has published more than 100 papers which have attracted over 3000 citations.

Prof Ni is the Fellow of IET, Fellow of The Higher Education Academy, Senior Member of IEEE and was an IEEE 802.11 Wireless Standard Working Group Voting Member and a contributor to the IEEE wireless standards.

He is the Editor of Wiley Journal of Security and Communication Networks, KSII Transactions on Internet and Information Systems and IEEE Transactions on Smart Processing & Computing.

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