The 11th International Conference on Queueing Theory and Network Applications (QTNA2016) is a continuation of the series of successful QTNA conferences - QTNA2006 (Seoul, Korea), QTNA2007 (Kobe, Japan), QTNA2008 (Taipei, Taiwan), QTNA2009 (Singapore), QTNA2010 (Beijing, China), QTNA2011 (Seoul, Korea), QTNA2012 (Kyoto, Japan), QTNA2013 (Taichung, Taiwan), QTNA2014 (Bellingham, USA) and QTNA2015 (Hanoi, Vietnam).

The QTNA2016 conference aims to promote the knowledge and the development of high-quality research on queueing theory and its applications in networks and other related fields. It brings together researchers, scientists and practitioners from the world and offers an open forum to share the latest important research accomplishments and challenging problems in the area of queueing theory and network applications. The conference will cover all the key topics in queueing theory, communication networks and other scientific areas.

Authors of the papers accepted for presentation at QTNA2016 are cordially invited to submit the extended version of their papers to two special issues of two ISI-indexed journals: Annals of Operations Research and Journal of Industrial and Management Optimization (JIMO).

The main topics are (but not limited to):

**Queueing Theory and Related Areas**
- Matrix analytic methods
- Queueing analysis of scheduling policies
- Tail asymptotic in queueing models
- Large deviation theory
- Analysis of multi-class queueing networks
- Optimization of queueing systems
- Simulation of queueing models
- Capacity planning methods
- Source modelling for multi-media traffic and web-based applications
- Traffic measurement and data analysis
- Algorithms for self-organized optimization
- Performance evaluation and simulation tools
- Queueing analysis in cloud service
- Queues in healthcare system
- Queues in cloud computing

**Network Applications**
- Internet of Things
- Software Defined Networking
- Performance modelling and analysis of telecommunication networks
- Networks for disaster response and recovery
- Traffic management and routing
- Design and system management of communication networks
- Multimedia based systems design, configuration and impact
- Cost benefit analysis and economic impact of telecommunication systems
- Mobile/wireless and satellite communication systems
- Traffic models of voice, video and streaming
- Simulation and experimental validation of networks
- Ad-hoc and sensor networks
- Peer-to-peer communication
- Autonomic and ambient networks

The conference will be held in Wellington, December 13-15, 2016. The conference is co-organized by Victoria University of Wellington (VUW), New Zealand. The conference proceedings will be published in ACM Digital Library.