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# **Call for Papers**

## ***Annals of Operations Research***

### **Special Issue: Queueing Theory and Network Applications II**

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The *Annals of Operations Research* seeks submissions for a special issue on **Queueing Theory and Network Applications**. The deadline for submission is December 15, 2018.

This is a call for papers that make a significant contribution to the topic **Queueing Theory and Network Applications**. It is open to all researchers of this area. We would like to encourage, in particular, all participants of the 13<sup>th</sup> International Conference on Queueing Theory and Network Applications (QTNA2018) to submit extended versions of their presented papers. Please note that contributions arising from papers given at a conference should be substantially extended, and should cite the conference paper where appropriate.

**The main topics of interest are:**

**Queueing Theory and Related Areas**

- Matrix analytic methods
- Queueing analysis of scheduling policies
- Tail asymptotic in queueing models
- Fluid and diffusion limits
- 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
- 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

**Instructions for authors can be found at:**

<http://www.springer.com/business/operations+research/journal/10479>

Authors should submit a cover letter and a manuscript by December 15, 2018, via the Journal's online submission site: <http://www.editorialmanager.com/anor/default.aspx>. Manuscripts submitted after the deadline may not be considered for the special issue and may be transferred to a regular issue.

Please see the Author Instructions on the web site if you have not yet submitted a paper through Springer's web-based system, *Editorial Manager*. Be sure to note when leaving a comment that your work is intended for the special issue and to select the article type "S.I.: ***Queueing Theory and Network Applications II***".

Papers will be subject to a strict review process managed by the Guest Editors and accepted papers will be published online individually, before print publication.

**Guest Editors:**

Tuan Phung-Duc  
Yutaka Takahashi  
Hideaki Takagi