SCOPE OF THE SPECIAL ISSUE

In recent years, the heterogeneity and variability of Internet applications – both in multimedial as well as in interactive environments - has increased significantly. Nowadays, video streaming is responsible for a large portion of all traffic in the Internet, and Internet telephony and video conferencing systems have become part of our daily life. At the same time, the Internet of Things strives to surpass any previous expectations towards the number of devices, and smartphones and tablets contribute to the ever-growing demands on the networks. Furthermore, the proliferation of all types of media hubs also increases the acceptance and development of video games, upcoming virtual reality applications, 360° video and much more.

On the technical side, this leads to new paths in the direction of analytics, big data, and automated machine learning techniques. Today, partaking in data evaluations in the direction of Quality of Experience touches at least one of these topics, since the endless mass of data, resulting from the cheap and almost unlimited data storage, must be processed and evaluated. In the era of big data and dynamic networks, Quality of Experience is still looking for its place, and good solutions are in high demand.

This Special Issue addresses the latest advances and challenges in analysis, design, modelling, measurement, and performance evaluation of Quality of Experience and Quality of Experience-oriented metrics.

Submission link: [http://mc.manuscriptcentral.com/nem](http://mc.manuscriptcentral.com/nem)
Submission Deadline: December 15, 2017
Notification of Acceptance: February 28, 2018
Final Version: May 31, 2018
Publication: August, 2018
Authors are invited to submit an article that falls in the area of QoE-centric analysis and management of communications networks. Topics of interest include, but are not limited to, the following:

- QoE-aware and QoE-oriented networking
- Relationship between QoS, Perceptual Quality and QoE
- QoS/QoE mapping, metrics and measurements in the large-scale
- Internet measurements related to network and application quality/performance
- SDN for QoE-based network management
- Performance and quality characterization from Internet measurements
- Quality metrics for smartphones & mobile networks
- QoE-based traffic monitoring and troubleshooting
- Novel algorithms to improve Internet quality
- QoE-based network management and analysis
- Application of performance models and metrics to network and traffic analysis
- Tools and techniques to gather QoS/QoE-related Internet measurements
- Field trials shedding light on QoE/QoS aspects
- Qualitative measurements for Internet traffic analysis
- QoE-oriented analysis of CDNs and Cloud networks
- Network simulation for QoS/QoE analysis
- Novel approaches for large-scale crowd-sourcing with respect to network / service performance
- Cross-layer optimization
- Network QoS and QoE modeling
- Integration of QoS and QoE models
- Standardization issues
- QoE Monitoring
- Interactive Applications and quality
- Novel applications and fields of use for QoE

Authors are invited to submit articles, which fall within the areas mentioned above or are related to them.
Authors should submit their papers in PDF format only to [1]. Paper submissions should not exceed 20 pages. Author instructions are available at [2], and the respective LaTeX template can be found at [3]. All submissions will be peer-reviewed. In case of acceptance, the final and camera-ready version has to take into account comments of reviewers and needs to follow the template’s requirements.

Submissions will be judged based on their originality, novelty, and quality. Submissions must not substantially overlap with papers that have been previously published or are currently submitted for publication. The submission must be written clearly and in excellent English.

All received submissions within the scope of the issue will be sent out for peer review by three experts in the field and will be evaluated with respect to the relevance to this special issue, level of innovation, depth of contribution, and quality of presentation.

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More information about the journal can be found at International Journal of Network Management.