



CALL FOR PAPERS

Thanks to enhanced programmability, all related networking technologies promise a higher level of flexibility, a stronger coupling between network and services, applications and users in order to offer high-end and customized services. Softwarization of network promotes innovation in telecommunication networks and actually support, new methods and mechanisms have to be established to fully take advantage of the offered capabilities. For example, heuristic-based optimization techniques have proven to be successful in deriving network policies to configurations of softwarized network elements. In parallel, the big data era stimulates the use of artificial intelligence, Machine Learning (ML) and data mining techniques as well as the apparition of batch and streaming data analytic frameworks and paradigms. Deep learning recently gains in popularity and paves the way to more powerful application of ML to various problems. Many areas can leverage all this type of analytics to handle the data explosion phenomenon or increasing complexity of problems to solve in an efficient and valuable way, as for example to detect or even predict threats, decide on mitigation strategies, provision resources for QoS, etc.

The objectives of advanced algorithms would be to support better decisions for softwarized networks in a fully automated way or to assist or guide human operators with strong and enhanced cooperation with new visualisation approaches including virtual reality. There are also important challenge to be addressed on how to efficiently collect and process data of a softwarized network and even how to integrated data from external sources in order to improve the derived knowledge.

Topics of interest: Authors are invited to submit original contributions about technologies applied to softwarized networks that falls into the following list of topics of interest (not exclusive list). Both theoretical contributions as well as technical developments and practical evaluations are in the scope of the workshop:

- Data-Driven softwarization of networks
- Verification of softwarized networks
- Security analytics in SDN
- Large-scale monitoring in SDN and NFV
- Routing optimization
- Security policy configurations
- Analytics for QoS and QoE
- Analytics-oriented framework and architectures for networking
- Data-analytics integration in softwarized networks
- Optimization techniques
- New machine learning algorithms for softwarized networks
- Attack design and mitigation

Paper submission: March 16, 2018
Notification to authors: April 6, 2018
Camera ready: April 20, 2018
Workshop date: June 25 or 29, 2018

Venue: SOFTNETICS will be held in conjunction with [IEEE Conference on Network Softwarization \(NetSoft\)](#) 2018 in Montreal, Canada

Submission Instructions: Prospective authors are invited to submit original, unpublished works for publication in the IEEE Netsoft 2018 proceedings and for presentation in the workshop. Papers under review elsewhere must not be submitted to the workshop. Submissions must be in IEEE 2-column style and have a maximum length of 6 pages (full paper) or 4 pages (short paper). Papers will be withdrawn from IEEE Xplore in case the authors do not present their paper at the workshop

Submissions must be made in PDF format via: <https://jems.sbc.org.br/home.cgi?c=3006>

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