



The 4<sup>th</sup> IEEE/IFIP International Workshop on Analytics for Network and Service Management (AnNet 2019) will be held in conjunction with the IFIP/IEEE International Symposium on Integrated Network Management (IM) in Washington DC, USA on April 8, 2019.

Following the success of its previous editions, AnNet aims to present research and experience results in data analytics and machine learning for network and service management. Approaches such as statistical analysis, data mining and machine learning are promising to harness the immense stream of operational data and to improve operations and management of IT systems and networks.

AnNet 2019 will include original full-paper presentations, a keynote, and short-paper sessions. The workshop attendees will be stimulated to participate in interesting discussions. Short papers describing late-breaking advances and work-in-progress reports from ongoing research and experimental work are also welcome.

**TOPICS OF INTEREST**

Authors are invited to submit papers that fall into or are related to one or multiple topic areas listed below:

**Data Analytics**

- Analysis, modeling and visualization
- Operational analytics and intelligence
- Event, log and big data analytics
- Network traffic analysis
- Anomaly detection and prediction
- Crowd sensing
- Monitoring and measurements for management
- Predictive and real-time analytics
- Harnessing social data for management

**Machine Learning Techniques**

- Supervised, semi-supervised, and unsupervised learning
- Clustering and data mining
- Reinforcement learning
- Multi-agent based learning
- Deep learning
- Bayesian methods
- Ensemble methods
- Cognitive computing
- Mining spatiotemporal and time series data

**Network Management Paradigms**

- Autonomous and autonomic networks
- Fog/edge computing
- In-network processing
- Bio-inspired networks and self-management
- Cognitive and software defined networks
- Network function virtualization
- Security, fault, performance, and resource management

**Application Domains**

- Computer networks
- Mobile ad-hoc and wireless sensor networks
- Clouds and data centers
- Virtualized infrastructures
- Internet of Things
- Computing and network services
- IT service management, storage resource management

**PAPER SUBMISSION**

Paper submissions must present original, unpublished research or experiences. Only original papers that have not been published or submitted for publication elsewhere can be submitted. Each submission must be written in English, accompanied by a 75 to 200 words abstract that clearly outlines the scope and contributions of the paper. There is a length limitation of 6 pages (including title, abstract, all figures, tables, and references) for regular papers, and 4 pages for short papers describing work in progress. Submissions must be in IEEE 2-column style. Self-plagiarized papers will be rejected without further review. Authors should submit their papers via JEMS:

[https://submissoes.sbc.org.br/im2019\\_anNet](https://submissoes.sbc.org.br/im2019_anNet)

**PROCEEDINGS**

Papers accepted for AnNet 2019 will be included in the conference proceedings, IEEE Xplore, IFIP database and EI Index. IFIP and IEEE reserve the right to remove any paper from the IFIP database and IEEE Xplore if the paper is not presented by one of its authors at the workshop. Awards will be presented to the best paper at the workshop.

**GENERAL CHAIR**

- Nur Zincir-Heywood, Dalhousie University, Canada

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**IMPORTANT DATES**

- Paper Registration: **November 16, 2018**
- Paper Submission Deadline: **November 20, 2018**
- Acceptance Notification: **December 20, 2018**
- Camera-Ready Papers: **January 15, 2019**
- Workshop Date: **April 8, 2019**

For more information, see: <http://annet2019.moogsoft.com/>