

Special Issue

Towards the Next-Generation of Network Monitoring Systems

Message from the Guest Editor

Network-monitoring systems are useful to detect, and eventually solve, issues with slow or failing components, as they provide managers with both dashboards and rich sets of measurements useful for determining the root causes of any incident. In addition, monitoring systems usually provide managers with mechanisms and algorithms to automatically identify abnormal behaviors and traffic anomalies in time series, flows or packet payloads, which trigger alarms in both active and proactive ways. However, diverse factors are making the task of network monitoring harder than ever: the heterogeneity of the services and infrastructure of the Internet; the ever-increasing demand for both bandwidth and low latency from users; the advent of new paradigms, such as the Internet of Things, which calls for the -deployment of network probes around the world; the externalization of management tasks; and the balance between the costs and capacity of probes are some of the most significant challenges today. To this end, this Special Issue is soliciting conceptual, theoretical, and experimental contributions to addressing a set of current challenges in the area of systems for network monitoring.

Guest Editor

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Informatics (ISSN 2227-9709) is an international, peer-reviewed, open access journal, which publishes original theoretical and empirical work on the science of informatics and its application in multiple fields. Our concept of Informatics includes technologies of information and communication as well as the biological, social, linguistic and cultural changes that initiate, accompany and complicate their development. *Informatics* publishes regular research articles, reviews and short notes. There is no restriction on the length of papers, and we encourage researchers to publish their theoretical and empirical results in as much detail as possible. The scientific community and the public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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