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Preface

Quality of Service is becoming one of the most important criteria for the selection of products and services.

If anyone buys a food or a washing machine, almost always pays attention to their quality. It's hard to deny that the quality is also of great importance in telecommunications and services offered by operators. Sooner or later an operator, who does not pay attention to the quality of services, will notice a certain decrease in the number of customers. This is because the functionality of the services offered by different operators is similar or the same. Therefore, one of the most important performance indicator to compete with each other is the quality of service. Poor quality of service is immediately noticed by the user. Signs of deterioration in the quality of services are many. For example, in the case of mobile telephony from time to time there are cases called silent calls. Spectators watching movies or TV do not want the image disappeared, or was frozen. Using the Web you want transmission rate was large enough that you did not notice the delay. Technical reasons for unwanted phenomena can be many. Caring for the quality of services is not easy. This leads many researchers to carry out research in this area. There are also organized numerous conferences on the subject, and also this issue of the *Journal of Telecommunications and Information Technology* presents selected papers on issues of quality of service in telecommunications and mobile systems, to support the topic. Articles describe how to define quality of service, how it is measured and tested. Issues related to quality are becoming more and more frequently a source of ITU-T recommendations.

This issue of the *Journal* presents selected papers on QoS which are the main part of the publication. The content is also supplemented by four other articles. They are devoted to performance comparison of four new ARIMA-ANN prediction models on Internet traffic data, a new implementation of UWB CRLH based antennas for wireless communications, availability of WDM multi ring networks, and assessment of area energy efficiency of LTE macro base stations in different environments.

I hope that readers will find its contents interesting and valuable.

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