

The 10-th International Scientific Conference

INFOCOMMUNICATIONS – Present and Future

occasioned with the 100 years anniversary of Odesa National O.S. Popov Academy
of Telecommunications

Dear Colleagues!

We are happy to invite you to the 10-th International Conference "INFOCOMMUNICATIONS – PRESENT and FUTURE" (IPF'2020). Education and Research Institute of Infocommunications and Software Engineering of Odesa National O.S. Popov Academy of Telecommunications welcomes you at IPF'2020 scheduled to November 16-19, 2020 – Odesa, Ukraine.

CONFERENCE SCOPE

Section 1. Mobile Communications and Broadband Radio Access Systems (radio signals and signals processing; radio interface, backbone network of 4G/LTE, 5G/NR; microwave technologies, terahertz radio technologies, etc.).

Section 2. Multiservice Telecommunication Networks (hardware and software facilities of telecommunications, traffic engineering for multiservice networks; innovative maintenance methods; cable and fiber-optic telecommunication systems; innovative calculation methods for fiber-optic telecommunication systems; etc.).

Section 3. Information Networks and Technologies (content management technologies, eHealth, eLearning; cloud communications and network virtualization, innovative IOT solutions; Software Defined Networks, etc.).

Section 4. Cybersecurity Solutions (vulnerabilities of wireless networks, including 5G networks; cryptographic algorithms, hashing; innovative methods of traffic monitoring; analysis of cybersecurity threats to private networks, etc.).

Section 5. Software Engineering and Computer Science (implementation of artificial intelligence, analysis of Big Data, Data Mining, machine learning, images recognition, etc.);

Section 6. Economics and Management in Infocommunications (innovative approaches to competitiveness assessing, analysis of Soft skills in IT, improving the efficiency of

infocommunication companies; innovative methods of managing telecommunications companies, etc.).

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GENERAL INFORMATION

The Infocommunications – Present and Future conference (IPF) is hosted by O.S. Popov Odesa National Academy of Telecommunications (ONAT) for 10 years. The conference takes place once a year.

The main purpose of the IPF conference is to provide scientists from different countries with the possibility to exchange experience, present their innovative practical projects and scientific results required by the IT industry and telecommunication companies.

This year, the IPF'2020 conference is going to be occasioned with the 100 years anniversary of ONAT.

In previous years, the IPF international conference was attended by scientists from Ukraine, Poland, Germany, USA, Turkey, and CIS countries. The share of abroad scientists is higher than 30%. For example, the IPF'19 conference was attended by representatives of 10 universities and 18 companies related to IT and telecommunications.

This conference is supported by Ukrainian Ministry of Science and Education as well as some international organizations, which requires strict plagiarism check and contributed materials relevance verification. Each conference paper is a subject of a blind peer review of three independent professors from partner universities. This approach uses the EasyChair system.

IMPORTANT DATES

Papers submission: October 5, 2020

Notification about paper acceptance/rejection: October 19, 2020

Registration: November 16, 2020

Session opening and welcome speeches: November 16, 2020

Regular sessions: November 17–18, 2020

Final plenary session: November 19, 2020

VENUE

The conference will be held at the Odesa National O.S. Popov Academy of Telecommunications, 1 Kuznechna str., Odesa, Ukraine.

REGISTRATION

Please, use the following web form to register for the IPF'2020 conference.

https://docs.google.com/forms/d/1cTeuKtSe7IUvShf85m-8qnjWsBto9_M3_xJnR7J9-e8/edit?usp=sharing

Otherwise, you are welcomed to send the following data

First name	
Last name	
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Your affiliation	
Academic Rank and Degree	
Conference section	
Title of your contribution	
Do you plan to attend the conference personally?	

to organizing committee via e-mail: olexandra.tsira@onat.edu.ua

REGISTRATION FEE

The IPF'2020 registration fee is 300 UAH.

PAPER SUBMISSION

To submit your paper use EasyChair (<https://easychair.org/conferences/?conf=ipf2020>) or e-mail it to olexandra.tsira@onat.edu.ua

Please, submit papers up to 4 A4 pages written using Times New Roman font, 12 pt. Use single spacing between strings and the following margins

Top	2 cm
Bottom	2 cm
Left	2.5 cm
Right	1.5 cm

Paragraph indentation must be 1.27 cm. Please, use MathType or Equation for formulas. All headers must be bold. Abstract must not exceed 100 words.

Use the following example for reference.

UDC 621.391

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RESEARCH OF QUALITY CHARACTERISTICS OF MPLS-TE/VPN/FRR NETWORK

Abstract. Reviewed the task research of characteristic of quality QoS in MPLS-TE/VPN/FRR networks, such as: package queue length, packet delay time. The solution of this problem is proposed with the help of the node tensor method, which allows, within the framework of a single network, to investigate both structural characteristics and functional properties at the same time. Determined results will give us possibility to choose which FRR tunnel for rerouting.

A characteristic feature of modern telecommunication networks is the implementation of conceptually new transport network based on MultiProtocol Label Switching (MPLS), which allows for the transmission of packet traffic with support of the quality of service QoS (Quality of Service). The network uses MPLS traffic engineering TE (Traffic Engineering), which allows for efficient use of resources. Functioning network MPLS-TE is based on the use of transmission routes traffic through unidirectional tunnels TE-tunnel, bringing together the sequence of routers LSR (Label Switch Router), selected with regard to maximum utilization of network resources and performance requirements of QoS. For fault-tolerant routing in MPLS-TE network using fast re-routing packages Fast ReRoute (FRR), that is in default route can direct traffic to alternate pre configured TE-tunnel, chosen by the criterion of minimal packet delay. Characterization QoS in MPLS-TE network focused on the choice of route of traffic load conditions, management of

network resources. During the operation, of the network is often need to unloading certain routes, which too loaded [1-2]...

References

1. Strelkovskaya I.V. Research of quality characteristics of MPLS-TE/VPN/FRR network. Strelkovskaya I.V, Yakovenko V.O. // Seven international science-practic. conference «Infocommunication — present and future» Article book, Odessa, 2017, P.1. page 23-24

CONFERENCE FEE PAYMENT DETAILS

Do not pay conference fee until paper acceptance notification from organizing committee. After paying the fee, please, send a copy of receipt to the organizing committee.

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