



Conference Schedule

Third international Conference Futuristic Trends in Networks and Computing Technologies (FTNCT-2020)

Date: 14.10.2020

16:00 - 18:00 Registration of participants, making sections in Microsoft Teams

Date: 15.10.2020

9:00 Welcome speech by the head of the Organizing Committee

10:00 Keynote Speech (Microsoft Teams)

11:30 Discussion (Microsoft Teams Seminars)

12:00 Report of the business community representatives (Microsoft Teams)

13:00 Break

14:00 Keynote Speech (Microsoft Teams)

15:30 Technical session “**Network and Computing Technologies**” part 1 (Microsoft Teams)

The section is devoted to the problems of computer technology development related to distributed computing and network processing. The section addresses the following topics: Parallel & Distributed Networks, Social & Smart Networks, Software Defined Networks, Vehicular Ad-hoc Networks, Mobile Ad-hoc Networks, Body Area Networks, Opportunistic Networks, Cognitive Radio Networks, QoS in Networks, Networks related issues, design, architectures algorithms and applications.

Subjects of reports of section participants who confirmed participation in the Conference:

- 1.The Traveling Salesman Problem Solution Using Cloud Technologies on The Internet
- 2.Application of Synergetic Control Theory to Improve the Convergence of Neural Networks
3. Design of Distributed Networks and Production Well Management Algorithms

15:30 Technical session “**Futuristic Computing Technologies**” part 1 (Microsoft Teams)

The section is devoted to discussing the features of future computing technologies, including machine learning, bio-inspired computing, and virtual reality technologies. The section addresses the following issues: Computational Intelligence, Advancement in AI and Machine Learning (ML) Technologies, Expert System & Decision Support Systems, Deep Learning Technologies, Nature- Inspired Computing, Natural Language Processing, Robotics, Computer

Vision and Virtual Reality, Augmented Reality, Image Processing (IP) Applications, IP for Surveillance and Security Systems

Subjects of reports of section participants who confirmed participation in the Conference:

- 1.A modified Genetic Algorithm for solving Resource-Constrained Project Scheduling Problem
- 2.Intelligent Spatial Analysis Method
- 3.Application of Machine Learning Methods in Modeling Hydrolyte-Sphere Processes

15:30 Technical session “**Communication Technologies, Security and Privacy**” part 1 (Microsoft Teams)

The section is devoted to the analysis of telecommunication technology development issues, cybersecurity, ensuring the confidentiality of user and organization data. The section addresses the following issues: Communication Technologies, Mobile Communication, Optical Communications and Networking, Internet of Vehicles (IoV), Future Internet Architecture and Protocols, Green Communications, Internet of Everything (IOE), Digital Modulation and Signal Processing and their application, Coding and Information Theory, Speech/Image/Video Processing and its applications, Cloud and Swarm Robotics, Cyber Physical Systems

Subjects of reports of section participants who confirmed participation in the Conference:

- 1.The Use of The Attributive Metagrafs for Attributing Computer Attacks
- 2.Swarm of Drones Communication System Cybersecurity
- 3.Face Recognition and Identification System for Searching Photos at an Event

15:30 Technical session “**Wireless Networks and Internet of Things (IoT)**” part 1 (Microsoft Teams)

The section is devoted to the analysis of the prospects for the development of wireless network technologies, special attention is paid to the Internet of Things technology. The section addresses the following issues: Wireless Sensor Networks, Design and Implementation Issues in WSN, Network Security and Attacks, Network Protocols and QoS, Node Clustering in WSN, Routing and Architectures in WSN, High Speed Wireless Networks and related topics.

Subjects of reports of section participants who confirmed participation in the Conference:

- 1.Detection of Cache Pollution Attacks in s Secure Information Centric Network
- 2.Interaction of A Group of Unmanned Aerial Vehicles in A Fog-Cloud Environment
- 3.Study of The Noise Signal Shaper Characteristics as a Noise Source in Multichannel Noise Generator

19:00 Обсуждение (Круглый стол Microsoft Teams)

Дата: 16.10.2020

9:00 Welcome speech (Microsoft Teams)

10:00 00 Keynote Speech (Microsoft Teams)

11:30 Discussion (Microsoft Teams Seminars)

12:00 Report of the business community representatives (Microsoft Teams)

13:00 Break

14:00 Technical sessions (Microsoft Teams)

15:30 Technical session “Network and Computing Technologies” part 2 (Microsoft Teams)

The section is devoted to the problems of computer technology development related to distributed computing and network processing. The section addresses the following topics: Mobile & Ubiquitous Computing, Grid & Distributed Computing, Edge Computing, Fog Computing, Cloud & Big Data Technologies, Parallel Computing, Quantum Computing, Cognitive Computing and their applications and related topics.

Subjects of reports of section participants who confirmed participation in the Conference:

1. Research and Development of Multi-Criteria Optimization Approach for Volume Rendering of Large Data
2. Mathematical Description of The Model of Optimal Construction of False Infrastructure in Information and Communication Networks
3. The Cognitive Analysis of Multidimensional Images of Dynamically Changing Big Data Sets

15: Technical session “**Futuristic Computing Technologies**” part 2 (Microsoft Teams)

The section is devoted to discussing the features of future computing technologies, including machine learning, bio-inspired computing, and virtual reality technologies. The section addresses the following issues: Emerging Trends in ML and AI, Data Mining and Analytics, Pattern Recognition and Machine Vision, Web and Social Media Mining, Opinion Mining, Sentiment Analysis, Data Analysis for Smart World like Healthcare, Education etc. and Emerging Technologies and its related topics.

Subjects of reports of section participants who confirmed participation in the Conference:

1. The Task of Analysis of Big Web Data and the Use of Web Mining Technology for Processing and Searching Patterns in Web Data
2. An Integrated Test Method for Objects' Identification Systems
3. Methods of Segmentation and Normalization of The Iris for Images in The Visible Range of Radiation

15:30 Technical session “Communication Technologies, Security and Privacy” part 2 (Microsoft Teams)

The section is devoted to the analysis of telecommunication technology development issues, cybersecurity, ensuring the confidentiality of user and organization data. The section addresses the following issues: Cyber Physical Systems, Security & Privacy in Computing Technologies, Security in IoT & Cloud, Cyber Security and Malware protection, Data Security and Disaster Recovery, Security in Mobile Networks, E-Governance, Security in E-Governance and related topics. Visible light communication, Secured free space optics, optical steganography. Subjects of reports of section participants who confirmed participation in the Conference:

- 1.Security of Digital Interaction as a Guarantee of Human Rights and Freedoms Protection
- 2.Securing Cloud-Based Electronic Signatures
- 3.Modeling the Behavior of Web Crawlers on a Web Resource

15:30 Technical session “**Wireless Networks and Internet of Things (IoT)**” part 2 (Microsoft Teams)

The section is devoted to the analysis of the prospects for the development of wireless network technologies, special attention is paid to the Internet of Things technology. The section addresses the following issues: IoT Architectures & Protocols, IoT's impact on 5G, IoT enabling technologies, IoT services and applications, IoT & Big Data Management, and future internet design for various IoT use cases, Big Data, Cloud and IoT for Smart World:- Smart City, Smart Transport, Smart Grid, Smart Healthcare, Education, HMS, DSS and Expert Systems for Smart World, E-Learning, Mobile learning and related topics.

Subjects of reports of section participants who confirmed participation in the Conference:

- 1.Building a System for Monitoring Industrial Equipment Based on the IOT Approach
- 2.Simulation of Educational and Methodical Communications in The University
- 3,Device for Personified Diabetes Therapy Based on a Self-Learning Neural Network Algorithm for Calculating Insulin Doses

17:00 Poster session (Microsoft Teams)

18:00 Discussion of results and the final word (Microsoft Teams)

Program Committee Head



Dr. Konstantin Rumyantsev