

5th International Conference on Futuristic Trends in Networks and Computing Technologies

(FTNCT 2023)

Date of Conference: 29- 30th July, 2023

VENUE: IEI, Chandigarh



Approved from Lecture Notes in Electrical Engineering (LNEE), Springer

**SPECIAL SESSION ON “TELECOMMUNICATIONS SYSTEMS AND SECURITY
(TS&S)”**

SESSION CHAIR

DR. PLJONKIN ANTON. Associate Professor, Master of Science, Ph.D., Research laboratory "Quantum cryptography", Director of SFU Indian-Russian scientific center, SFedU Rectors Authorized Representative on the cooperation with partners in Republic of India. Department of Information Security of Telecommunication Systems, Institute of Computer Technologies and Information Security, Southern Federal University.

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CO-SESSION CHAIR

DR. AMIT SHARMA, POST DOCTORAL RESEARCHER, SFU, RUSSIA

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AIMS & SCOPE

Quantum cryptography is the science of exploiting quantum mechanical properties to perform cryptographic tasks. The best known example of quantum cryptography is quantum key distribution which offers an information-theoretically secure solution to the key exchange problem. The advantage of quantum cryptography lies in the fact that it allows the completion of various cryptographic tasks that are proven or conjectured to be impossible using only classical (i.e. non-quantum) communication. For example, it is impossible to copy data encoded in a quantum state. If one attempts to read the encoded data, the quantum state will be changed (no-cloning theorem). This could be used to detect eavesdropping in quantum key distribution. So main focus of this special session is to address the research issues related to telecommunications, security, quantum cryptography, computer vision, quantum computing et al.

Full length original and unpublished research papers based on theoretical or experimental contributions related to the below mentioned tracks are invited for submission in this special session:

Tracks: (Sub-Themes)

- Optical Communications and Networking
- Quantum cryptography
- Quantum computing
- Satellite Communication
- Interactive communication
- Security in IoT
- Wireless Communications
- Speech/Image/Video Processing and Communications
- Networked Robots and Devices
- Telecommunications

PUBLICATIONS: All the accepted paper after the oral presentation during the conference will be submitted to Springer LNEE Series (**LNEE Series is Indexed in Scopus, DBLP**).

SUBMISSION LINK: Kindly use the link below to upload your manuscript.

<https://cmt3.research.microsoft.com/FTNCT2023>

TOPICS OF INTEREST (CONFERENCE THEME)

Original unpublished articles are invited for submission to following tracks including the topics, but are not limited to:

- **Track 1 - Network and Computing Technologies:**
 - 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.
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.
- **Track 2 - Wireless Networks and Internet of Things (IoT)**
 - 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
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.

- **Track 3 - Futuristic Computing Technologies:**

- 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, 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 Health-care, Education etc. and Emerging Technologies and its related topics.

- **Track 4 - Communication Technologies, Security and Privacy:**

- 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, 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.

Important Dates

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| Submission of Full Papers Deadline | 15 th June, 2023 |
| Notification of Acceptance Deadline | 30 th June, 2023 |
| Registration Deadline | 15th July, 2023 |
| Conference Dates | 29- 30th July, 2023 |

Registration: All authors from RUSSIA may pay the fee in their local currency Ruble /Bank Transfer. The Invoice will be provided at email.

Publication Policies:

1. All registered and presented papers/review articles shall be submitted to SPRINGER for their possible publication in a Conference Proceedings format (online). However the right to accept and subsequent publication of each will be with Springer, that will be decided on the basis of the quality, novelty of work and the originality of the text, the manuscript will represent.

2. In case, any registered paper/article is rejected by the Springer for its publication with their conference proceeding due to any reason (mentioned at point number-01), the sole responsibility shall lie with authors of that article. As we clearly stated on the first and home pages, that Springer will conduct quality checks on the accepted papers and only papers that pass these checks will be published.

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5. The organizers will not have any responsibility for any of registered/presented papers, if not accepted/approved by the Springer for publication in their conference proceeding due to any of the reasons as specified in point 1 and 2 or because of any specific reason sometimes depends upon manuscript to manuscript too.