

# 2020 IEEE 2nd International Conference on Advanced Trends in Information Theory

25.11.20-27.11.20

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МІНІСТЕРСТВО  
ОСВІТИ І НАУКИ  
УКРАЇНИ

**IEEE**   
**UKRAINE SECTION**

## GENERAL INFORMATION

**CONFERENCE focus** is on the processing, transmission, storage, and use of information, as well as the foundation of the communications process and information technologies.

It specifically encompasses theoretical and certain applied aspects of coding, communications and communications networks, complexity and cryptography, detection and estimation, learning, Shannon Theory, and stochastic processes.

**Information theory**, including source and channel coding, communication theory and information systems, cryptography and information security, detection and estimation, networks, pattern recognition and learning, statistics, computation theory, and signal processing.

## TOPICS

### Track 1. Information and Encoding Theory.

- T1.A Source Coding and Data Compression.
- T1.B Coding and Shannon Theory.
- T1.C Network Information Theory.
- T1.D Network Coding and Applications.
- T1.E Signal Processing.

### Track 2. Communication Theory.

- T2.A Communication Theory
- T2.B Communication Networks Traffic Engineering.
- T2.C Coding for Communication and Storage.
- T2.D Wireless Communication and Networks
- T2.E Source and Channel Modeling.

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**IEEE Ukraine Section  
Information Theory  
Society Chapter**



### Track 3. Technologies of Informative Security.

- T3.A Information-theoretic Security.
- T3.B Information Security and Cybersecurity.
- T3.C Cryptography and Steganography.
- T3.D Quantum cryptography.

### Track 4. Information Technologies and Artificial Intelligence.

- T4.A Mathematical Modeling in Information Technologies.
- T4.B Management of Information Systems.
- T4.C Data Science and Big Data Analytics.
- T4.D Neural Networks and Machine Learning.
- T4.E Cloud computing and technologies.
- T4.F Smart Systems and IoT.