



International Conference on Cyber Warfare,
Security & Space Computing

SpacSec'25

CONFERENCE PROGRAM

26th – 28th September 2025

Southern Federal University
Taganrog campus



<https://spacsec.com>



**MANIPAL UNIVERSITY
JAIPUR**

September 26 th [Building D, room 230]	
12:00 – 13:00	Registration [building D, Nekrasovsky lane, 44]
13:00	Welcome speech
13:15 – 14:00	Keynote speech Dr. Prof. Igor Kotenko «Intelligent Situational Awareness for Cyber Security: Models, Techniques and Applications»
14:00 – 14:30	Coffee break [Winter Garden]
14:30 – 16:30	Session 1
16:30 – 19:00	Walking tour on the city center of Taganrog
19:00	Welcome dinner [Winter Garden]
September 27 th [Building D, room 230]	
10:00 – 12:00	Session 2
12:00 – 13:00	Keynote speech Dr. Prof. Sandeep Joshi «Image Security Through Authentication Using Watermark»
13:00 – 14:00	Coffee break [Winter Garden]
14:00 – 16:00	Session 3
16:00 – 18:00	Excursion
18:00 – 20:00	Gala Dinner. Closing Ceremony [Winter Garden]
September 28 th	
Departure of participants	

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September 26th

Session 1
Session Chair: Dr. Varun Tiwari
7 minutes for presentation

14:30 – 16:30	Name Speaker	Article Title
	Amit Kumar Bairwa [India]	Secure and Energy-Efficient Machine Learning for Intelligent IoT Devices
	Anubhav Saxena [India], online	Exploring Quantum Fourier Transform and Phase Distribution in Quantum Algorithms: an Experimental Study with Shor's Algorithm
	Varun Tiwari [India]	Energy-Efficient Optical Downlink Strategies for Satellite-Based IoT Networks: a Comprehensive Survey
	Sushama Tanwar [India], online	Secure and Scalable Blockchain-Based Electronic Health Record System Enhancing Data
	Johnnier Hernández Rivera [Cuba], online	Centralized Database for Training Bot Detection Algorithms
	Shantanu Khatri [India], online	Quantum-Augmented Architectures for Spacecrafts
	Emesto Alberto Alvarez [Cuba], online	Machine Learning-based Anomaly Detection Module in the Context of a Simulated Industrial System
	Maria Poltavtseva [Russia], online	Zero-Trust Security of Distributed Heterogeneous Big Data Processing and Storage Systems
	Anna Opryshko [Russia]	The Development of a Modern Subject of Education in the Context of Network Societal Stigmergy
	Reena Sharma [India], online	Assessing the Role of Wavelet Transform in Enhancing Face Recognition Accuracy across VGG19, ResNet, and MobileNet Architectures
	Viktor Potapov [Russia]	Quantum Deep Learning of Convolutional Neural Networks Using Variational Quantum Scheme

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September 27th

Session 2

Session Chair: Dr. Amit Kumar Bairwa
7 minutes for presentation

10:00 – 12:00	Name Speaker	Article Title
	Valeria Yushitsyna and Vladislav Avdeev [Russia]	Calibration of a Quantum Key Distribution System
	Kavya Yadav [India], online	Secure Redaction System for Multiformat Documents with Manual Precision Control
	Daria Aldokhina [Russia]	Development of an Air Temperature Prediction System Based on Genetic Algorithms
	Deepika Shekhawat [India], online	Smart skies: Leveraging AI and Swarm Intelligence to Tackle Space Junk
	Sviatoslav Zhirenko [Russia]	Cyberspace as a Predictor for Model-World Ontologization
	Nikhil Pateria [India], online	Decentralized Control and Coordination of Industry 5.0 Robots: a Scalable Blockchain Framework
	Vsevolod Vilkov [Russia]	A Threat Vector and Defense Methods Analysis for Containerized Web Applications
	Rahul Sharma [India], online	Image Steganography Using Dual Tree Wavelet Transform with Scrambling Operations Such as Ascending Order, Circular Shift, Pixel Swapping, and Rotation
	Alexey Mushenko [Russia]	A Neural Network System for Object Detection and Analysis in Eye Tracker Scene Videos
	Sulekha Pateriya [India], online	Performance Evaluation of NB-IoT Uplink and Downlink Channels in LEO Satellite-Assisted 5G Non-Terrestrial Networks
	Ivan Streltsov [Russia]	Social Aspects of Information Security and Privacy in the Digital Environment

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September 27th

Session 3
Session Chair: Dr. Varun Tiwari
7 minutes for presentation

14:00 – 16:00	Name Speaker	Article Title
	Andrei Petrovski [Russia], online	Securing Production Processes with Predictive Anomaly Detection Using Digital Twins
	Maxim Kalinin [Russia], online	Improving the Directed Acyclic Graph-Based Blockchain to Ensure Cyber-Resilient Smart Cities
	Igor Zelichenok [Russia], online	L/STIM: Optimizing Large Dataflow for Multi-Stage Attacks Detection
	Palash Karmakar [India], online	Generating Optimal Quantum Circuit Based on the Desired Bitstring
	Laura Khadzhieva [Russia]	Formation of Parameters of Information Sources for Neuro-Linguistic Text Identification
	Sergey Zavada [Russia]	Cyber Environment as a Value-Sense Regulator of Cognitive Personality Development
	Lyudmila Babenko [Russia]	Development of Methods and Tools for Creating Effective Homomorphic Encryption Algorithms
	Semen Bukhankov [Russia]	Secure Video Surveillance System "Safe City" Based on Optical Fiber
	Thisura Wijesekera [Sri Lanka], online	Kubernetes Scaling: a Comprehensive Review of Scalability in Kubernetes
	Ayesha Shaikh [India], online	Comparative Study of Standard AES-256 and Low-Power AES-256 Implementations
	Rajendra Magar [India], online	A Machine Learning Framework for Early Detection of Leaf Diseases in Plumbago Zeylanica
	Aditya Shrivastava [India], online	Integration of Post-Quantum Cryptography in Blockchain and Federated Learning for IoD Security

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