24h format

GMT+3

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

CONFERENCE PROGRAM

	October 13
11:00 – 14:00	Test day. Connection to the conference, Frequently Asked Questions, presentations test. Chair: Dr. Yurii Zachinyaev
	October 14
8:45	Connection to the conference
9:00	Greeting speech by Dr. Gennady Veselov, Honorary Chair, Head of Institute of Computer Technologies and Information Security
9:15-9:55	Keynote speech. Dr. Pradeep Kumar Singh. IoVT: Internet of Vulnerable Things. Threat Architecture, Attack Surfaces, and Vulnerabilities in Internet of Things and Its Applications towards Smart Cities
10:00-11:00	 [261] Alexander Zakharov. Electronic Medical Records Data Analysis Technologies and Services for the Cardiovascular Diseases Risk Prediction. [134] Ivan Linnik, Elena Linnik, Igor Grishin, Rena Timirgaleeva and Aleksander Tamargazin. Air Navigation: An Integrated Test Method for Airborne Objects' Identification Systems. [177] Said Muratchaev and Alexey Volkov. Development of a Routing Protocol Based on Clustering in MANET. [257] Sergei Petrenko, Alexander Petrenko, Krystina Makoveichuk and Alexander Olifirov. Development of a cyber-resistant platform for the internet of things based on dynamic control technology. [16] Prahlad Bhadani, Kamakshi Puri, Ankur Choudhary, Arun Prakash Agrawal and Neha Agarwal. A Hybrid Metaheuristic To Solve Capacitated Vehicle Routing Problem. Session chair: Dr. Anton Pljonkin
11:00-12:00	 [23] Sergei Shalagin. Representation of the quantum Fourier transform based on a discrete model of a quantum-mechanical system. [146] Victoria Bova Bova, Yury Kravchenko, Sergey Rodzin and Elmar Kuliev. Simulation of the semantic network of knowledge representation in intelligent assistant systems based on ontological approach. [6] Sumit Kumar, Kanika Joshi, Shreya Jain and Nihar Ranjan Roy. Optimization of K- Nearest Neighbors for Classification. [192] Artem S. Lebedev and Shamil G. Magomedov. Automatic parallelization of affine programs for distributed memory systems. [151] Boris K. Lebedev and Oleg B. Lebedev. Bioinspired multi-memetic algorithm. Session chair: Dr. Anton Pljonkin
12:00-13:00	 [193] Sergey Kharchenko, Roman Meshcheryakov and Yaroslav Turovsky. Influence of signal preprocessing when highlighting steady-state visual evoked potentials based on a multivariate synchronization index. [18] Kartik Aggarwal and Nihar Roy. Energy Conservation in IOT: A Survey. [26] Ratima Raj Singh, Surbhi Vijh, Sumit Kumar and Nihar Ranjan Roy. Analysis of Histopathological Images using Machine Learning Techniques. [43] Udai Bhan Trivedi and Priti Mishra. Accelerating Stochastic Gradient Descent by Minibatching, Learning Rate Annealing and Momentum. [147] Anton Pljonkin, Pradeep Kumar Singh, Sandeep Joshi and Lilia Sabantina. The study of synchronization in quantum key distribution system. Session chair: Dr. Ilona Kursitys
13:00-13:30	Rest and Discussion club Chair: Dr. Ilona Kursitys

24h format

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

CONFERENCE PROGRAM

13:30 -14:05	Keynote speech. Dr. Prof. Valery Vyatkin. On cyber-physical engineering of industrial automation systems
14:10-15:00	 [255] María Martín Marín, Juan José Dominguez Jiménez, Francisco Palomo Lozano and Inmaculada Medina Bulo. Application of Genetic Algorithms to the Test Suite Cases Minimization. [47] Gururaj H L, Suhas K C and Goutham B. Medchain: Securing Electronic Medical Records with a Peer to Peer Networks and Distributed File System. [58] Veerawali Behal and Ramandeep Singh. An Ensemble Approach of Multi-Objective Differential Evolution Based Benzene Detection. [137] Sarita Mishra, Manjusha Pandey, Siddharth S. Rautaray and Mahendra K. Gourisaria. A Proposal For Early Detection Of Heart Disease Using A Classification Model. [148] Hetvi Shah and Keyur Rana. A Deep Learning Approach for Autonomous Navigation of UAV. Session chair: Dr. Ilona Kursitys
15:00-16:00	 [184] Sergey Sizov, Tatiana Drovosekova and Ivan Pershin. Application of machine learning methods in modeling hydrolithospheric processes. [21] Vjacheslav Zakharov, Sergei Shalagin and Bulat Eminov. Representation of autonomous probabilistic automata by characteristic minimal polynomials over a finite field. [61] Garima Vijh, Dr Richa Sharma and Dr Swati Agrawal. The Heartfelt and Thoughtful Rulers of the World: AI Implementation in HR. [63] Yash Kaushik, Muskaan Dixit, Nikhil Sharma and Monika Garg. Feature Selection using Ensemble techniques. [197] Mahvish Bijli and Neerendra Kumar. Autonomous Navigation of Mobile Robot With Obstacle Avoidance: A review. Session chair: Dr. Yurii Zachinyaev
16:00-17:00	 [272] Alexander Basan, Elena Basan, Maria Lapina and Vitalii Lapin. Behavior-Based Assessment of Trust in a Cyber-Physical System. [145] Alexandr Pchelkin, Natalia Gusarova, Natalia Dobrenko and Alexandra Vatyan. Mobile Healthcare Service for Self-Organization in Older Populations During a Pandemic. [188] Alexey Busygin and Maxim Kalinin. Criterion of blockchain vulnerability to majority attack based on hashing power distribution assessment. [140] Alexander Bozhenyuk, Margarita Knyazeva, Olesiya Kosenko and Evgeny Kosenko. Analysis of Using the Fuzzy Interval Apparatus for Applied Tasks. [253] Andrey Iskhakov, Anastasia Iskhakova, Valentin Okhapkin and Elena Okhapkina. Constructing of Semantically Dependent Patterns Based on SpaCy and StanfordNLP Libraries. Session chair: Dr. Yurii Zachinyaev
17:00-18:00	Organizing committee remark. Discussion club. End of Day 1 Chair: Dr. Yurii Zachinyaev

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

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14-16 October, 2020

GMT+3 24h format

CONFERENCE PROGRAM

October 15	
8:45 Connection to the conference	
9:00-9:35 Keynote speech. Dr. Maheshkumar H. Kolekar. Machine Learning and Deep Learning Techniques for Abnormal Human Activity Recognition	
 9:45-11:00 [232] Wan Azani Wan Mustafa and Mohd Helmy Abd Wahab. Automatic Counting of Palm Oil Tree Using Satellite Aeria Imagery. [201] Alexander Bozhenyuk and Kirill Morev. Influence of Membership Function Type on the Accuracy of Video Tracking Algorithm. [224] Ivan Perchin, Anatol Malkov and Irina Pomelyayko. Design of a Distributed Debit Management Network of Operative Wells of Deposits of the CMW Region. [269] Nikolai Fomin and Roman Meshcheryakov. Modelling smart city cyber-physical water supply systems: vulnerabilitit threats and risks. [218] Valentina Kuznetsova. The Fuzzy Approach for Clustering Borrowers of Microfinance Organizations. Session chair: Dr. Evgeniya Gerasimenko) ng
 11:00-12:00 [240] Vlada Zhernova and Alexey Minbaleev. The formation of legal measures to counter information security incidents use and application of cyber-physical systems. [72] Madhavi Latha Challa and Soujanya K.L.S. Secure IoT Framework through FSIE approach. [99] Manpreet Singh and Jitender Kumar Chhabra. Software Fault Prediction using Machine Learning Models and Com Analysis. [102] Ch Leela Kumari, Dr. Vikram Kumar Kamboj and Dr.Sarbjeet Kaur Bath. Problem Formulation for Multi-Area Econ Load Dispatch Problem considering Real power and Tie-Line Constraints. [270] Shamil Magomedov. Software for analyzing security for healthcare organizations. Session chair: Dr. Evgeniya Gerasimenko 	parative
 12:00-13:00 [110] Loveleen Gaur, Gurinder Singh and Vernika Agarwal. Leveraging Artificial Intelligence tools to combat the COVID Crisis. [115] Loveleen Gaur, Govind Agarwal and Ankur Bist. COVID-19 REAL-TIME IMPACT ANALYSIS INDIA vs. the USA. [116] Shivani Sehgal, Aman Ganesh and Vikram Kumar Kamboj. A Cost Effective Memetic Optimal approach for Solution Economic Load Dispatch Problem in Realistic Power System. [105] Stanislav Belyakov, Stanislav Karpov and Eldar Zalilov. Detecting fraudulent transactions using a machine learnin algorithm. [119] Ravi Prakash Varshney and Dilip Kumar Sharma. Cold Start in Function as a Service: A systematic study, analysis evaluation. Session chair: Dr. Evgeniya Gerasimenko 	on of g
13:00-13:30 Rest and Discussion club Chair: Dr. Evgeniya Gerasimenko	
13:30 – 14:05 Keynote speech. Dr. Vivek Kumar Sehgal. Neuromorphic Stochastic Modeling of COVID-19 Pandemie	;

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GMT+3	24h format	CONFERENCE PROGRAM
14:10-15:00	the Use of Kernel Regressior [172] Shagun Verma and Ner [191] Sneha Raina, Abha Kha [212] Andrey E. Ampliev. Pro devices and an electronic add	erendra Kumar. Path Planning for Autonomous Robot Navigation: Present Approaches. andelwal, Saloni Gupta and Alka Leekha. Brain Tumor Segmentation Using Unet. babilistic characteristics of a two-channel detector with two inertial single-photon photoemission ler. r Kureichik. Modified genetic algorithm for solving the resource constrained project scheduling
15:00-16:00	Functions. [169] Elena Volkova, Said Mu with Forecasting. [164] Artem Ryndin, Ekaterin [239] Dmitry Zaporozhets, Vla Circuits.	
16:00-17:00	or Elimination Quantum Type [241] Denis Makhov. Method Radio Engineering Systems I [273] Viktoriya Taran. Analys Bayesian Belief Network. [264] Sunil Mankotia and Mai [42] Ivian Laobel Castellano I	of Increase In Stability Of Management By Functional Parameters Of The Spatial Distributed in The Robotic Complexes Based On The Fuzzy Sets. Is of the Activity of Complex Natural Processes with Catastrophic Consequences Using the nu Sood. An Efficient Authentication Scheme for Mobile Cloud Computing using a Key Server. Betancourt, Nemury Silega Martínez, Olga Yarisbel Rojas Grass, Manuel Noguera and Osmar n ontology-based solution to study code smells.
17:00-18:00	Organizing committee rem Chair: Dr. Elena Basan	ark. Discussion club. End of Day 2

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

GMT+3 24h format

CONFERENCE PROGRAM

	October 16
8:45	Connection to the conference
9:00-9:35	Keynote speech. Prof. Dr. Sergey Kulik. Quantum cryptography through atmospheric and space communication channels
9:45-11:00	 [196] Tatiana Kosachenko, Danil Dudkin, Anton Konev and Alexander Sharamok. Threat Model for Trusted Sensory Information Collection and Processing Platform. [165] Kirill Ponomarev and Alexander Zakharov. Framework for processing medical data and secure machine learning in Internet of medical things. [204] Liliya A. Demidova, Nailya S. Asfandiyarova, Natalya V. Doroshina, Olga V. Dashkevich and Ekaterina I. Suchkova. An approach to the medical-type data multiobjective analysis. [238] Maksimova Elena and Baranov Vladimir. Predicting destructive malicious impacts on the subject of critical information infrastructure. [245] Mark Mamchenko and Rinat Galin. Human-Robot Collaboration in the Society of the Future: a Survey on the Challenges and the Barriers. Session chair: Dr. Anton Pljonkin
11:00-12:00	 [168] Antonio Hernández Dominguez and Walter Baluja García. Updated analysis of detection methods for phishing attacks. [144] Edwin Geovanny Flores Castro and Sang Guun Yoo. A Smart Waste Management System based on LoRaWAN. [180] Oksana Lukmanova and Anatoly Horev. Modeling the Acoustoelectric Effect in a Telephone Using COMSOL Multiphysics. [252] Aleksey Rogachev and Gennadiy Atamanov. Analysis of socio-political content of internet resources based on hybrid neural network technologies. [254] Anastasia Iskhakova, Olga Shumskaya and Andrey Iskhakov. Protection of signals in the video stream of a mobile robotic group agent. Session chair: Dr. Yurii Zachinyaev
12:00-13:00	 [73] Leandro Tabares Martín, Nemury Silega Martínez and Marc Gyssens. Query Reverse Engineering in the context of the Semantic Web: a state-of-the-art. [222] Prajna P. Parida, Mahendra K Gourisaria, Manjusha Pandey and Siddharth S. Rautaray. Hybrid Movie Recommender System - A Proposed Model. [230] Veeranna Gatate and Dr.Jayashree Agarkhed. Energy and Spectrum-aware Cluster-based Routing in Cognitive Radio Sensor Networks. [248] Srinidhi N N, Dharamendra Chouhan, Savitha A N, Shreyas J and Dilip Kumar S M. Maximization of IoT Network Lifetime Using Efficient Clustering Technique. [93] Harsha Sri Kanakavalli, Vinod Babu P and V. A. Sankar Ponnapalli. Design of U-Shaped Multiline Microstrip Patch Antenna for Advanced Wireless Applications. Session chair: Dr. Yurii Zachinyaev
13:00 – 13:30	Organizing committee remark. Discussion club. End of conference