

**Fourth International Conference**

On  
*Computing, Communications, and Cyber-Security (IC4S-2022)*

16 – 17, December, 2022

Krishan Engineering College (KEC), Ghaziabad, India



Approved from LNNS, Springer

**DAY-1, 16 December, 2022 FRIDAY [ ONLINE MODE]**

**Zoom Meeting Link: Meeting ID: 882 3346 0884 Passcode: 2022**

**Zoom Link URL Below [ Please click below to Join]**

<https://us06web.zoom.us/j/88233460884?pwd=RkJKbFVXT0Z1ZFV5dUFTUDJKUWhQQT09>

**Inaugural Program: 10:30 to 11:00 AM [ 16/12/2022]**

**Inaugural Program: Welcome Address, & Statistics**

**10:30 to 10:32 AM :- Welcome of the Attendees, Session Chairs , Keynotes, Conference Organizing Team by Dr. Sudeep Tanwar, General Chair, IC4S-2022**

**10:32 to 10:45 AM:- Inaugural Speech by Prof. Sanjeev Kumar, Dean Academics, KEC Ghaziabad [ On Behalf of Director, KEC]**

**10: 45 to 10:55 AM:- Inaugural address on conference theme by Dr. Sachin Kumar, HOD (CS/IT), KEC Ghaziabad**

**10:55 to 11:00 AM :- Conference Statistics by Dr. Amit Sharma, Conference Progra Co-Chair**

**11:00 to 11:05 AM:- Profile of First Keynote by Dr. Sudeep Tanwar**

**DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]**

**KEYNOTE-01: Time 11:00 to 11:45 AM**

**Keynote Speaker:- Prof. Yashwant Singh, Head CS/IT, Central University Jammu, India  
(Title of Keynote:- IoVT: Internet of Vulnerable Things:- Issues, Challenges & Prospects)**

Prof. Mahesh K Kholekar, IIT Patna (Title of Keynote:- Deep Learning for Healthcare Management)

***Technial Presentation in 4 Parallel Session***

PAPER PRESENTATION SCHEDULE [ IC4S-2022]

DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]

SESSION-01 , Time: 11:45 AM to 1:30 PM

SESSION CHAIR'S: Dr. Rohit Tanwar, UPES Dehradun, India  
Dr. Sachin Kumar, Amity University Lucknow Campus, India

Paper ID	Authors	Title
<a href="#">2</a>	Mayank Pandey and Samayveer Singh	A Review on Various Deepfakes Detection Methods
<a href="#">3</a>	Anjali Gupta, Lalit K Awasthi and Samayveer Singh	Steganography Methods for GIF Images: A Review
<a href="#">4</a>	Riya Punia and Aruna Malik	Image Interpolation-based Steganographic Techniques under Spatial domain: A Survey
<a href="#">5</a>	Raju Pratap Sharma and Aruna Malik	A Comparative Review on Image interpolation based Reversible Data Hiding
<a href="#">25</a>	Dr V Anusuya, K Vignesh Saravanan and V Vishnu Praba	Real Time Face Mask detection using Convolution Neural Network and Computer Vision
<a href="#">153</a>	Geetika Bhardwaj and Dr.Rajesh.K Bawa	Performance of Machine Learning Models on Crime Data
<a href="#">213</a>	Jayesh Locharla, Haswanth Kolanuvada, Suchitra Dr.S. and Sai Ashrith Kona Venkata	A Robust Deep Learning Techniques for Alzheimer's Prediction

DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]

SESSION-02 , Time: 11:45 AM to 1:30 PM

SESSION CHAIR'S: Dr. Brahmah Hazela, Amity University Lucknow Campus, India  
Dr. Parita Oza, Nirma University, India

Paper ID	Authors	Title
<a href="#">38</a>	Ayushi Malik, Shagun Gehlot and Sonali Vyas	Proposed Framework for Implementation of Biometrics in Banking KYC
<a href="#">39</a>	Harsimran Jit Singh, Shubh Gupta and Sonali Vyas	A Prevention Technique Based Framework for Securing Healthcare Data
<a href="#">46</a>	Swati Jain and Mandeep Kaur	Design and Implementation of IoT Based Indoor Hydroponics Farming with Automated Climate and Light Control

<a href="#">50</a>	<a href="#">Dr K Nitalaksheswara Rao, Shanmuk Srinivas Amiripalli, Venkata Rao Rampay and S N V Jitendra Mukkamala</a>	Automatic SMS Spam filtering for Disaster Response using Classification Algorithms
<a href="#">52</a>	Sunil Kumar and Harish Kumar	Lung Cancer Diagnosis using X-Ray and CT scan Images based on Machine Learning Approaches
<a href="#">59</a>	Yusuf Aliyu Adamu and Jaspreet Singh	HYBRID MACHINE LEARNING ALGORITHM FOR PREDICTION OF MALARIA
<a href="#">60</a>	Harsh Sinha, Nikita Malik and Menal Dahiya	Drone Ecosystem: Architecture for Configuring and Securing UAVs
<a href="#">155</a>	Saba Mushtaq, Riaz A Khan, Sajaad A Lone, Ayaz H Moon and Maroof Qadri	Improved Complexity in Localization of Copy-Move Forgery Using DWT

DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]

SESSION-03 , Time: 11:45 AM to 1:30 PM

SESSION CHAIR'S: Dr. Smita Agarwal, Nirma University, India  
Dr. Ashutosh Sharma, SFU, Russia & UPES Dehradun, India

Paper ID	Authors	Title
<a href="#">61</a>	Nongmeikapam Thoiba Singh, Dr. Raman Chadha, Dr. Simarjeet Kaur and Amrita Chaudhary	An Improved Neural Network based Routing Algorithm for Mobile Ad Hoc Networks
<a href="#">64</a>	Ishika Shah, Greeva Khant, Jitali Patel, Jigna Patel and Rupal Kapdi	Yoga Pose Estimation using Machine Learning
<a href="#">65</a>	<a href="#">Jigna Patel, Parth Nimbadkar, Dhruv Patel, Aayush Panchal and Jai Prakash Verma</a>	Chest X-Ray Image Classification for Covid -19 Detection Deep Learning Model
<a href="#">66</a>	Dwivedi Neeraj, Kumar Sachin, Tanwar Sudeep and Tyagi Sudhanshu	Energy Harvesting in 5th Generation Wireless Network: Upcoming Challenges and Future Directions
<a href="#">68</a>	<a href="#">Misri Parikh, Niket Kothari, Karan Patel, Jai Prakash Verma and Pronaya Bhattacharya</a>	Impact of Boosting Techniques in AI based Credit Card Fraud Detection Classifier
<a href="#">74</a>	Asvitha S, Dhivya T, Dhivyasree H and Bhavadharini R M	Paddy Pro: A MobilenetV3 Based App to identify Paddy Leaf Diseases
<a href="#">156</a>	Ahmed Altameem	THE PERSPECTIVES OF USING JAVA SERVER PAGES

DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]

SESSION-04 , Time: 11:45 AM to 1:30 PM

SESSION CHAIR'S: Dr. Yugal Kumar, JUIT Waknaghat, India Dr. Amit Sharma, SFU, Russia

Paper ID	Authors	Title
<a href="#">75</a>	Vivek Kumar Prasad, Darshan Savaliya, Sakshi Sanghavi, Vatsal Sakariya, Pronaya Bhattacharya, Jai Prakash Verma and Dr. Sudeep Tanwar	Stock Price Prediction for Market Forecasting using Machine Learning Analysis
<a href="#">94</a>	Y. Vahidhabanu, K. Karthick, Dr.R.Asokan and Dr.S.Sreeji	Cyclone Intensity Detection and Classification Using A Attention Based 3d Deep Learning Model
<a href="#">104</a>	Nikesha Patel and Keyur Brahmhatt	A Video based System for Vehicle tracking based on Optical flow and Shi-Tomasi Corner detection algorithm
<a href="#">108</a>	Nirmala N and Dr. Gracia Nirmala Rani D	Develop a Time quantum based scheduling algorithm for Digital Micro Fluidic Biochips
<a href="#">115</a>	Pratyaksha Ranawat, Dr. Mayank Patel and Ajay Kumar Sharma	An Enhanced Encryption Scheme For Cloud Security
<a href="#">129</a>	Rekha Baghel	A Survey on Code-Mixed Sentiment Analysis based on Hinglish Dataset
184	S Suchitra	AI-BASED INVOICE PAYMENT DATE PREDICTION FOR B2B
<a href="#">196</a>	Shivani Jaiswal, Priti Kumari and Vandana Dubey	Intellectual Movie Recommendation System Using Supervised Machine Learning Method

DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]

KEYNOTE-02: Time 2:15 PM to 3:00 PM [ IST]

Title of Keynote:- Autonomous Vehicles: Research Issues, Challenges and Prospects

Keynote Speaker:- Prof. Anand Nayyar, Duy Tan University, Vietnam

DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]

SESSION-05 , Time: 3:00 to 4:30 PM

SESSION CHAIR'S: Dr. Sudhanshu Tyagi, Thapar University, India  
Dr. Jitendra Bhatia, Nirma University, India

Paper ID	Authors	Title
<a href="#">138</a>	<a href="#">Gousia Nissar</a> , <a href="#">Riaz Khan</a> , <a href="#">Saba Mushtaq</a> , <a href="#">Sajaad Lone</a> and <a href="#">Ayaz Moon</a>	A Lightweight authentication Scheme and Security key establishment for Internet of Medical Things

<a href="#">144</a>	Arun G, Anguraju K, Sangeetha A and Babu K	A Real-Time Road Crash Prediction Model By Hybridizing Multiple Learning Classifiers
<a href="#">148</a>	Abhishek Tomar, Gaurav Gupta, Kritika Rana and Surbhi Bhatia	Revolution in Agriculture with the aid of Internet of Things
<a href="#">150</a>	<a href="#">Sandeep Vyas, Girraj Sharma, Sudarshan Kumar Jain, Rukhsar Zafar and Anand Nayyar</a>	Supercontinuum generation in dispersion-tailored tetrachloroethylene filled photonic crystal fibers
<a href="#">160</a>	Swati Malik and Kamali Gupta	Novel Load balancing technique for microservice-based Fog healthcare environment
<a href="#">164</a>	Shubham Singh, Pawan Singh and Sudeep Tanwar	Self-Improved COOT Algorithm for Resource Allocation in Cloud Data Centers
<a href="#">165</a>	Pradeep S, Kishore M, Oviya G, Poorani S and Anitha R	XGBoost based Prediction and Evaluation model for Enchanting Subscribers in Industrial sector
<a href="#">133</a>	Valerii Popovych and Martin Drlik	Towards Development of Data Architecture for Learning Analytics Projects Using Data Engineering Approach

DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]

SESSION-06 , Time: 3:00 to 4:30 PM

SESSION CHAIR'S: Dr. Anand Nayyar, Duy Tan University, Vietnam  
Dr. Rakesh Saini, DIT University, Dehradun, India

Paper ID	Authors	Title
<a href="#">220</a>	David Verde, Pedro Faria, Sara Paiva and Luís Romero [Invited Paper]	An Augmented Reality Framework as a Solution to Enhance the Experience of Visiting a Museum
<a href="#">221</a>	Tânia Silva, Filipe Alves, Filipe Pacheco, Sara Paiva and Ana I. Pereira	Dynamic and Optimized Collaborative System for Routes - a Case of Study in Home Healthcare
<a href="#">209</a>	Maheshkumar H. Kolekar [Invited Paper]	De-raining of Image using U-Net based Conditional Generative Adversarial Network
<a href="#">210</a>	Sanjay Prajapati, Himansu Das, Mahendra Gourisaria and Pradeep Singh	Feature Selection using Particle Swarm Optimization for Microarray Data Classification
<a href="#">214</a>	Dr. Bramah Hazela	Deepfakes: A New Era of Misinformation
<a href="#">218</a>	Bakhit Bin Jarn, Rahat Iqbal, Shadi Atalla, Obada Alhabshneh Alhabshneh and Mohammed Ahmed [Invited Paper]	Autonomous Vehicles Adoption Classification for Future Mobility in UAE using Machine Learning
<a href="#">223</a>	Amit Sharma, Pradeep Kumar Singh, Elizaveta Podoplelova, Vadim Gavrilenko, Alexey Tselykh and Alexander Bozhenyuk	Graph Neural Network based Anomaly Detection in Blockchain network

<a href="#">224</a>	Siti Norzawani Ahmmad, Ibrahim Ahmad Ihsan Ahmad Zambri Muhammad, Farkhana Muchtar and Pradeep Kumar Singh	Health Monitoring System Using IoT
<a href="#">212</a>	Gunjan Gupta and Robert Van Zyl	Resource Sharing in Back Haul Satellite Based NOMA Network

## DAY-2, 17 December, 2022 SATURDAY [ ONLINE MODE]

**Zoom Meeting Link: Meeting ID: 882 3346 0884 Passcode: 2022**

<https://us06web.zoom.us/j/88233460884?pwd=RkJkbFVXT0ZlZlV5dUFTUDJKUWhQQT09>

**DAY-01: 16 December, 2022 FRIDAY [ ONLINE MODE]**

**KEYNOTE-03: Time 11:00 to 11:45 AM**

**Title of Keynote:- SDN for Intelligent Transportation System: Opportunities and Challenges**

**Keynote Speaker:- Dr. Jitender Bhatia, Nirma University, India**

DAY-02: 17 December, 2022 SATURDAY [ ONLINE MODE]

SESSION-07 , Time: 11:45 AM to 1:30 PM

SESSION CHAIR'S: Dr. Mohd Zuhair, Nirma University, India  
Dr. Pronaya Bhattacharya, Nirma University, India

Paper ID	Authors	Title
<a href="#">167</a>	Sachin Kumar, Pooja Khanna, Ritika Gauba and Aditya Pathak	Non-Fungible Tokens Marketplace: A Secured Blockchain based Decentralized Framework for Online Auction
<a href="#">168</a>	<a href="#">Sachi Chaudhary, Pooja Joshi, Pronaya Bhattacharya, Vivek Kumar Prasad, Rushabh Shah and Dr. Sudeep Tanwar</a>	Untangling Explainable AI in applicative domains: Taxonomy, Tools, and Open Challenges
<a href="#">173</a>	Dhruvin Kakadia, Het Shah, Parita Oza, Paawan Sharma and Samir Patel	Two-Stage Deep Learning Segmentation and Classification System for Breast Cancer Detection and Diagnosis
<a href="#">174</a>	Nikita Malik and Sanjay Kumar Malik	Early Detection of Covid-19 using Wearable Sensors' Data enabled by Semantic Web Technologies
<a href="#">176</a>	<a href="#">Ashwin Verma, Pronaya Bhattacharya, Vivek Kumar Prasad, Rajan Dutt and Dr. Sudeep Tanwar</a>	AutoBots: A Botnet Intrusion Detection Scheme using Deep Autoencoders

<a href="#">211</a>	<a href="#">R J Poovaraghan and P Prabhavathy</a>	Video Indexing and Retrieval Techniques: A Review
DAY-02: 17 December, 2022 SATURDAY [ ONLINE MODE]		
SESSION-08 , Time: 11:45 AM to 1:30 PM		
SESSION CHAIR'S: Dr. Hari Mohan Rai, Dronacharya Group of Institutions, India Dr. Sushil Kumar Singh, Seoul National University of Science and Technology, South Korea		
Paper ID	Authors	Title
<a href="#">177</a>	Praveen Srivastava and Shelej Khera	Machine Learning Assisted Intelligent reflecting surface MIMO Communication- Gateway for 6G- A Review
<a href="#">178</a>	Khushboo Jain, Shreya Shah, Smita Agrawal, Parita Oza and Sudeep Tanwar	CleanO-Renewable Energy based Robotic Floor Cleaner
<a href="#">180</a>	<a href="#">Harpreet Bedi</a>	Study on Fuel Cell Vehicle Braking System Selection and Simulation
<a href="#">183</a>	Nikhil Singh, Sachin Kumar and Dr. Shriram K Vasudevan	Analysis of Malignant and Non-Malignant Lesion Detection Techniques for Human Skin Image
<a href="#">186</a>	<a href="#">Oluwaseyi Paul Babalola and Vipin Balyan</a>	Cell outage detection in 5G self-organizing networks based on FDA-HMM
<a href="#">187</a>	Vandan Pandya, Smita Agrawal, Swati Jain and Bharat Jayaswal	Early Fault detection for Rotating Machinery onboard Ships Motor using Fuzzy logic and K-Means

DAY-02: 17 December, 2022 SATURDAY [ ONLINE MODE]		
SESSION-09 , Time: 11:45 AM to 1:30 PM		
SESSION CHAIR'S: Dr. Farkhana Muchtar, Universiti Malaysia Sabah, Malaysia Dr. Nagesh Kumar, Chitkara University, India		
Paper ID	Authors	Title
<a href="#">188</a>	Jitendra Bhatia, Radha Govani, Parth Kakadia, Yash Modi, Dhruvin Thakkar, Heta Bhayani, Meshwa Patel, Uttam Chauhan and Abdulatif Alabdulatif	IoT Based Scalable Framework for Pollution Aware Route Recommendation
<a href="#">192</a>	Rhea Sawant, Shivali Amit Wagle, Harikrishnan R and Sridevionmalar P	Impact of "COVID-19 pandemic" on children Online Education: A Review and Bibliometric Analysis
<a href="#">194</a>	Sridevionmalar P, Shivali Amit Wagle, Harikrishnan R and Rhea Sawant	Digital Based Learning in Indian Government's Higher Education: Initiatives and Insights

<a href="#">195</a>	Pushpavalli M, Hari Krishnan R, Abirami P and Sivagami P	Implementation of Multi-Input (MI) KY Boost Converter for Hybrid Renewable Energy System
<a href="#">197</a>	Sivagami P, Hari Krishnan R, Sridevi Ponmalar P and Shripad Deshpande	Methodology to Maximize the Output Voltage Harvested from Thermoelectric Generator by Using Luo Converter

DAY-02: 17 December, 2022 SATURDAY [ ONLINE MODE]

SESSION-10 , Time: 11:45 AM to 1:30 PM

SESSION CHAIRS: Prof. Mahendra Kumar, KIIT Bhubaneswar, Odisha, India  
Dr. Ashutosh Mishra, Yonsei University, Korea, Dr. Anupam Singh, UPES Dehradun, India

Paper ID	Authors	Title
<a href="#">198</a>	Aksh Gupta, Namrata Tadanki, Ninad Berry, Ramya Bardae and Hari Krishnan R	A Comparative Study On Different Machine Learning Algorithms for Predictive Analysis of Stock Prices
<a href="#">204</a>	Tanvi Gautam and Rahul Johari	Drone: A Review for the state of future directions in UAV
<a href="#">206</a>	Garima Srivastava, Vaishali Singh and Sachin Kumar	Opinion Mining Assisted Intelligent Program Selection Employing Fuzzy SWARA Mechanism
<a href="#">208</a>	<a href="#">Girraj Sharma, Sudarshan Kumar Jain, Sandeep Vyas and Anand Nayyar</a>	Reconfigurable Intelligent Surface Enabled Energy Efficient Cooperative Spectrum Sensing
88	Shanu Verma	Thyroid carcinoma Prediction Using ACO and Machine learning Techniques
95	Dr Jangirala Srinivas	Cryptanalysis of RSEAP2 authentication protocol based on RFID for Vehicular Cloud Computing
222	Saurabh Sharma	Hybrid Real-Time Implicit Feedback Recommendation Systems

**Workshop on Creation of CTPs by Editors of the Book Volume/ Proceedings on Invitation**  
[All authors are advised to attend]

**VOTE OF THANKS**

**1:30 to 2:00 PM**

**AUTHORS FEEDBACK**