2022 11th International Conference on System Modeling & Advancement in Research Trends (SMART 2022)

Moradabad, India
16-17 December 2022

Pages 1-544

IEEE Catalog Number: CFP22SME-POD
ISBN: 978-1-6654-8735-1

Copyright © 2022 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP22SME-POD
ISBN (Print-On-Demand):	978-1-6654-8735-1
ISBN (Online):	978-1-6654-8734-4
ISSN:	2767-7354

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings.com

Contents

Messages vii
Preface xi
Committees xii

TRACK I: EMERGING TECHNOLOGIES

1. **Cloud Bursting: Intelligent Technique in Cloud Computing** 3
Dev Baloni, Sonu Pant, Mukesh Kumar, Gunjan Rawat, Shreya Rawat, Puneet Kanti

2. **Comparative Analysis of Scheduling Algorithms in Cloud Computing using CloudSim** 7
M. Vidhya, Dr. R. Devi

3. **Water-Quality-Analysis using Machine Learning** 13
Raavi Akshay, Gadiraju Tarun, Pinapothini Uday Kiran, K. Durga Devi, M. Vidhyalakshmi

4. **AI based Technologies for International Space Station and Space Data** 19
Piyush Pant, Anand Singh Rajawat, S.B. Goyal, Amol Potgantwar, Pradeep Bedi, Maria Simona Raboaca, Neagu Bogdan Constantin, Chaman Verma

5. **An Optimized Ensemble Machine Learning Model for Automobile Risk Factor Prediction** 26
Jaspreet Singh, Rohit Bajaj, Ayush Kumar, Nipun Chawla, Lokesh Pawar, Gaurav Bathla

6. **A Comparative Evaluation of Valine-Leucine Amino Acid Impact for Disease Identification using Fuzzy C-Means Clustering and KNN Classification** 31
S. Sasikala, K. Sharmila

7. **Conversational Interfaces for Health Consultation** 35
Akhilesh Kumar Singh

8. **Visualization and Prediction of Heart Disease using Big Data Analytics** 39
Ashutosh Shankhdhar

9. **Deep Learning Model to Identify Hide Images using CNN Algorithm** 44
Ratnesh Kumar Shukla, Alok Singh Sengar, Anurag Gupta, Nupa Ram Chauhar

10. **Speech Difficulties and Clarification: A Systematic Review** 52
Ashutosh Dixit, Preeti Sethi, Puneet Garg, Manoj, Juhi Pruthi

11. **Role of ELMo Embedding in Detecting Fake News on Social Media** 57
Sonal Garg, Dilip Kumar Sharma

12. **Fake News Classification via CNN** 61
Sonal Garg and Dilip Kumar Sharma

13.	**COVID-19 Fake News Detection using Pre-Tuned BERT-Based Transfer Learning Models** *Priya Shrivastava and Dilip Kumar Sharma*	**64**
14.	**An Investigative Study of Long-Term Implication of Extended Reality Applications in Educational Pursuits for Learning-Disabled Population: A Recommendation Approach** *Sarthika Dutt, Ranjana Sharma, Priyanka Suyal,Monika Thapliyal*	**69**
15.	**An Agile Review of Machine Learning Technique** *Priyanka Suyalt, Sarthika Dutt, Ranjana Sharma, Lalit Mohan*	**75**
16.	**Scheduling Cloudlets in a Cloud Computing Environment: A Priority-based Cloudlet Scheduling Algorithm (PBCSA)** *D. Gritto and P. Muthulakshmi*	**80**
17.	**An Overview of Supervised Machine Learning Algorithm** *Vratika Gupta, Vinay Kumar Mishra, Priyank Singhal, Amit Kumar*	**87**
18.	**LSTM-Based Top N Recommendation System using Cognitive Data** *Avick Kumar Dey, Vineet Kumar Chauhan, Pradeep Kumar Singh, Prasenijit Choudhury*	**93**
19.	**Advanced Blood Management System Community Method Based on Deep Learning** *Aishwary Awasthi and Ashwani K. Sharma*	**99**
20.	**Valuation of Mergers and Acquisitions** *Vipin Kumar and Priyanka Jain*	**104**
21.	**Utilization Prediction Technique and Analyze Data Mining Architecture** *Rahul Manocha, Prabhjot Kaur and Neha Dhariwal*	**110**
22.	**Accuracy Improvement of Classifiers Using Genetic Algorithm** *Gulista Khan, Kanishka Jain, Neha Anand, Wajid Ali*	**114**
23.	**Review Based Rating Prediction using Machine Learning Techniques** *Maaz Bin Shahid, Alka Chaudhary, Deepa Gupta and Anil Kumar*	**118**
24.	**Data Deduplication using Aepas Algorithm** *S. Borgia Annie Catherine*	**123**
25.	**Linearity and Harmonic Distortion Performance Assessment of Dual Material Stacked Gate Oxide Source Dielectric Pocket TFET** *Dharmender, Piyush Yadav, Prabhanjan Singh Chandel and Nikety Gupta*	**130**
26.	**A Comparative Analysis of Deep-Learning Models with Novel Hybrid Biometric Modality Deep-Learning Network (BIOMODEN) to cognize Classification Accuracy of Fused Biometric Image** *P. Bhargavi Devi and K. Sharmila*	**136**
27.	**Classification of Music Genres using Neural Network** *Ratish Sharma and Nisha*	**142**
28.	**Big Data Approaches for an Accurate Evaluation of Cloud-Related Technology** *Pankaj Saraswat and Krishna Kalsi*	**148**
29.	**Using Heterogeneous Cloud Computing to Manage Resources in Sustainable Cyber-Physical Systems** *Gajendra Shrimal and Sandeep*	**153**

30. **A Novel ½ Layout in Conventional Comes Nanostructures Relying on the XOR Gate** **158**
Balpreet Singh and Dr. Monika Abrol

31. **Foldable Windows Vista that is Featherweight for Large Data Storage** **163**
Kuldeepak Saini and Harveer Singh

32. **A Review Mostly on Identification of Early Tamil Extracts Actors Through Historical Writing** **169**
Dr. Anand Shukla and Dr. Vipin Solanki

33. **Complex Analysis of Other Rocks or Formations using Intensity Svm and Outlier Filtering** **174**
Ms. Shivani Thakur and Mr. Ratish Sharma

34. **WebSocket IB with Browser RTP on Every Live Data System** **180**
Ms. Gaganpreet and Dr. Rajneesh Tyagi

35. **Epileptic Seizure Detection Using Machine Learning: A Review** **185**
Latika Sharma, Dr. Ajay Narayan Shukla and Dr. Srabanti Maji

36. **Using Blended Predictions Made through Using Unlabeled Data and Fast Text Computers from Internet Companies, Unhappiness May Be Detected** **192**
Dr. Deepak Kumar Sinha and Prof. Shreenidhi H.S.

37. **A Definitive Survey of How to Use Unsupervised Text Classifiers** **200**
Sachin Sharma and J. Adlin

38. **An Method Relies on Penalties Can Sole the Macro - and Micro Fire House Placement Issue** **205**
Prof. Zabeeulla and Dr. Mohd Tajammul

39. **Just Use an Perceptron to Anticipate Dry** **212**
Dr. Deepak Kumar Sinha and Dr. Somashekhara Reddy

40. **Biometric System based on Eyelid Detection Innovation** **217**
Dr. Jyotirmaya Sahoo and Dr. Pooja Gupta

41. **Classification of Music Generality using ANN, CNN and RNN-LSTM** **222**
Dr. Padmaja Tripathy and Prof. Vidita Patel

TRACK II: IOT & WIRELESS COMMUNICATION

42. **Various Tracking and Health Monitoring System in COVID-19 Based on IoT** **233**
Er. Prabhjot Kaur, Mandeep Singh, Anand Shukla

43. **Internet of Things: A Comparative Analysis of Network Terminologies with and without Data Compression Techniques** **236**
Ankur Sisodia, Ajay Kumar Yadav

44. **Shared Cycle and Vehicle Sharing and Monitoring System** **243**
Lakshmaiah Alluri, Hemant Jeevan Magadum

45. **Security Analysis for Threats to Patient Data in the Medical Internet of Things** **248**
Anand Singh Rajawat, S.B. Goyal, Pradeep Bedi, Abhudaya Shrivastava, Neagu Bogdan Constantin, Maria Simona Raboaca, Chaman Verma

46. **Security and Privacy Concerns in the Internet of Things: A Comprehensive Review** **254**
Ambuj Kumar Agarwal, Rupesh Kumar Jindal, Deepak Chaudhary, Raj Gaurang Tiwari, Megha Sharma

47.	**Research Pattern of Internet of Things and its Impact on Cyber Security** *Vinay Gautam, Raj Gaurang Tiwari, Anuj Kumar Jain, Ambuj Agarwal*	**260**
48.	**IoT Based Designing of Secure Data Storage System in Distributed Cloud System with Big Data using Cryptography Algorithm** *Ravi Shankar Shukla*	**264**
49.	**Qualitative Research on Wireless Body Area System Packet Size Improvement** *Alok Singh Sengar, Anurag Gupta, Nupa Ram Chuhan, Ratnesh Kumar Shukla*	**271**
50.	**An Implementation of Internet of Things-based Live Temperature and Humidity Monitoring System** *Rubina Liyakat Khan, Deepa Priyanshu, Danish Ather, Haneen Allataifeh*	**277**
51.	**Prediction of Stress using Machine Learning and IoT** *Amit Jain and Muskan Kumari*	**282**
52.	**Fitness Industry Propelling on IoT** *Ms. Sagrika Goswami, Abhishek Dubey*	**286**
53.	**Internet of Things for Cloud Services based Microgrid Program for Better Power Managerial using Meditational Analysis Approach** *Ramakant Upadhyay, Rupinder Kaur Wadhwa*	**291**
54.	**Internet of Things in the Smart Automotive Sector: A Review** *Mansirat Kaur, Saranjeet Kaur and Varsha*	**296**
55.	**A Findings and Discussions of the Application of IoT and Machine Learning Towards Shift Agriculture in India** *Izna, Anil Sharma and Rajendra Prasad Pandey*	**302**
56.	**"Secure Architecture for Providing Data Authenticity in IoT Enabled Devices"** *Shivangi, Dr. Gulishta Khan and Dr. Shalini Z Ninoria*	**306**
57.	**Design an MCH Vertical Handover for Mobile IoT to Minimise the Delay and Compared with Conventional RSS** *Varshitha Naidu TR and C. Tamizh Selvan*	**311**
58.	**A detailed Analysis of Various Security Issues in Wireless Communication Cyber–Physical Systems and the Internet-of-Things** *Dr. Amala Nirmal Doss, Prof. (Dr.) Anil Kumar Dixit, Ashima Juyal, Dr. Bhasker Pant, Dr. Anupama Chadha, Dr. (CS) Nagabhushanam Tida*	**316**
59.	**A Multiple Regression Approach was used to Conduct A Critical Evaluation of a Home Automation that used the Natural Language Processing and Effective Tool for Improving** *Mr. Pankaj Saraswat and Sonia Verma*	**323**
60.	**The Role Connected Processing Plays in the Bootstrapping Approach's Deployment of Such An Improved & Efficacious Smart Factory (IoT)** *Ramakant Upadhyay and Bhupinder Kaur*	**329**
61.	**An Empirical Study of IoT Technology to Enhance Data Breaches and Critical Protective Methods via Various Correlation** *Sachin Gupta and Gurvinder Singh*	**334**

62. **A Structure for Taking Measurements Health Research by Tracking Dynamic Attempting to Control Information through IoT Devices (IoT)** **339**
Hemant Gulati and Aishwary Awasthi

63. **Iot (Internet of Things) Going to Monitor System for Safe Agricultural Production Application** **345**
Ms. Samriti Bhagat and Dr. Monika Abrol

64. **A Basis on Prestige Gotten Better Siem for Nefarious Link Tracking in IoT** **352**
Ms. Manjeet, and Dr. Meenakshi Sharma

65. **Soil Nutrients Monitoring and Analyzing System Using Internet of Things** **356**
Ms. Sonia and Mr. Vincent Balu

66. **Blinking Detection Utilizing Internet of Things** **361**
Dr. K. Vanitha and Narasimhayya B.E.

67. **A Dual Thin Bandpass Multi - Band Aerial for Iot Systems that Supports Greatly Increase 5f L Nn, Lan, and Uwb-X Groups** **366**
Sunil M.P. and Dr. Pradeepa P.

68. **A Framework of Internet of Things (Iot) for the Manufacturing and Image Classification System** **371**
Dr. Shivani Joshi, Balakrishnan S, Poonam Rawat, Deepali Deshpande, Mr. M. Kalyan Chakravarthi and Dr. Devvret Verma

69. **A Multi Disciplinary Data Quality Curation Framework for Discrete and Continuous Iot Data** **376**
Nagendra Prasad Krishnam, Surya Narayan, Rashmi Mishra, Dr. Ch. Raghava Prasad, Rajesh Singh and Dr. Durgaprasad Gangodkar

70. **Structural Equation Modeling Method of Computation in Health Care using Iot** **383**
Dr. M. Dhinakaran, Rajesh Singh, Mr. M. Kalyan Chakravarthi, Dr. Bhasker Pant, Manjeet Singh, and Dr. Rohit Bansal

71. **Advanced IoT Home Automation using Google Assistant and Thingspeak Iot Platform** **390**
Dr. Pankaj Kumar Tyagi, Rajesh Singh, Mr. M. Kalyan Chakravarthi, Mr. Prabhdeep Singh, Ashok kumar P. and Dr. Ch. Raghava Prasad

72. **Cloud Computing Methods Based on IoT for Better Patient Data Planning: A Research** **396**
Dr. Arvind Kumar Pandey and Prof. Sumitra Maneria

TRACK III: COMMUNICATION AND NETWORK BROADCAST

73. **Enhancement of Quality of Service in Mobile Ad-Hoc Networks using Hybrid Load Balanced Simulator: Annealing Simulated** **405**
Anil Kumar, R.K. Shukla, R.S. Shukla and Shelendra Pal

74. **Performance Analysis of Cloud Hypervisor using Different Workloads in Virtualization** **414**
J. Mary Ramya Poovizhi, Dr. R. Devi

75. **Classification of Cyber Hate Speech from Social Networks using Machine Learning** **419**
Monika Chhikara, Sanjay Kumar Malik

76. **Utilizing WSN and Artificial Intelligence to Detect Fires** **424**
S. Pradeep, Yogesh Kumar Sharma, Chaman Verma, Neagu Bogdan Constantin, Zoltán Illés, Maria Simona Raboaca, Traian Candin Mihaltan

77. **Task Scheduling Algorithm Based on Load Balancing and Activity based Costing Method in Cloud Computing** **429**
Navjot Singh, Gaurav Bathla, Vikas Sharma

78. **Comparative Study on Real-Time Vehicle Classification** **433**
Dilip Kumar Sharma, Rahul Pradhan, Ruchi Agrawal

79. **A Study on the Flying Ad-hoc Networks: Related Challenges, Routing Protocols and Mobility Models** **438**
Tarandeep Kaur Bhatia, Sona Tyagi, Aayushman Gusain, Kulbhushan Sharma

80. **Conceptualization of Effective Algorithm for Minimizing Power Consumption in Cloud Servers** **445**
Raj Gaurang Tiwari, Ambuj Kumar Agarwal, Nishant Gupta, Aman Anand, Nikita Verma

81. **Hybrid Approach for Load Balancing in Software Defined Networks** **450**
Lokesh Pawar, Dr. Rohit Bajaj, Dr. Gaurav Bathla, Ravneet K. Sidhu, Deepak Rawat

82. **Implementing a Smart Monitoring System with Wireless Sensor and Actuator Networks** **454**
Ms. Garima Sharma, Ms. Tanisha

83. **Role of Cloud Management in Mitigating Vulnerabilities in Wireless Data Exchange Provider** **460**
Vijaya Gunturu, V. Savithri Padma Priya, Ebenezer Abishek B., Shreya Shetty, Dharam Buddhi, Surendra Kumar Shukla

84. **A Study of Optimized Proposed Model for Gateway Congestion Control** **466**
Suhail Javed Quraishi, Rubina Liyakat Khan, Tanvir Mahmoud Hussein Vineet Saxena, Sushovan Chaudhury, Ajay Rastogi

85. **A Review on the Relationship between Lulc and Lst using Geospatial Technologies** **472**
Vishva Deep Singh, Dr. Syed Rehan Ali, Dr. Atul Kant Piyoosh

86. **Multimodal Biometric Human Recognition System- A Convolution Neural Network based Approach** **477**
Dharmendra Kumar, Dr Sudhansh Sharma and Dr Mangala Prasad Mishra

87. **AI-powered Chatbot: A Link between Learning and Technology** **483**
Navjot Singh, Gaurav Bathla and Vikas Sharma

88. **A Comprehensive Performance Analysis on Artificial Neural Networks** **489**
Satyajit Panigrahi, Sharmila Subudhi and Shalini Zanzote Ninoria

89. **Comprehensive Survey on the Reliability of Wireless Sensor Networks** **496**
Navneet Vishnoi and Dr. R.K. Dwivedi

90. **Design and Performance Analysis of Square Patch Antenna Using Isola Gigaver Dielectric Material** **503**
G. Varshitha and Bhuvaneswari Balachander

91. **Gain Enhancement of H Slot MPA using RT-Duroid 5880 Substrate and Comparison with Nylon Fabric Substrate on S-Band Application** **508**
P. Vinay Chowdary and A. Mary Joy Kinol

92. **Gain Enhancement of H Slot MPA using RT-Duroid 5880 Substrate and comparison with Duroid 6010 Substrate on S-Band Application** **515**
P. Vinay Chowdary and A. Mary Joy Kinol

93. **Approaches for Data Analysis in WSN** **521**
Dr. Harveer Singh and Deeksha Verma

94. **Using Trust-Based Data Integrity Verification and Energy-Aware Hierarchical Data Aggregation for WSN** **528**
Mr. Dushyant Singh and Ms. Gaganpreet

95. **Sumo (Simulation of Urban Mobility) and OSM (Open Street Map) Implementation** **534**
Rohit Monga and Deepak Mehta

96. **A Study of Efficiency Evaluation of Power Economical Protocols of Wireless Sensor Systems** **539**
Ms. Simerjeet Kaur and Ms. Laxmi Goswami

97. **A Graph Database-Based Method for Network Log File Analysis** **545**
Ms. Khushboo Sharma and Arvind Kumar

98. **Denial of Service Malevolent Traffic Identification and Prevention in Software Defined Networking** **551**
Subhashish Goswami and Jayashree M. Kudari

99. **Summary of Either A Report on Methodologies Can Amend Routing' Protection a Servqual** **557**
Dr. K Vanitha and Prof. Zabeeulla

100. **Measurement of Radio Wave Latency in 5G Networks** **562**
Dr. Sunanda Das and Dr. Arvind K.S.

101. **The Emerging Role of the Knowledge Driven Applications of Wireless Networks for Next Generation Online Stream Processing** **567**
Vijaya Gunturu1, P. Rajani Kumari, Dr. S. M. Chithra ,
Dr. Bhargabjyoti Saikia, Rajesh Singh and Dr. Devesh Pratap Singh

102. **Security Metrics and their Measurements for Wireless Communications** **572**
K. Renuka, Rajesh Singh, Dr. B. T. Geetha, Dr. Durgaprasad Gangodkar,
G. Veeramalai and Dr. Ch. Raghava Prasad

TRACK IV: SIGNAL IMAGE & COMMUNICATION TECHNOLOGY

103. **Cloud Energy-Efficient Load Balancing: A Green Cloud Survey** **581**
Anushree Kaushik, Dr. Gulista Khan, Dr. Priyank Singhal

104. **A Survey of Machine Learning Based Approaches for Neurological Disorder Predictions** **586**
Atul Mathur, Rakesh Kumar Dwivedi, Rajul Rastogi

105. **Network Scientific Technique used in the Detection of Attack** **591**
Jay Chand, Ratnesh Kumar Pandey, Diwakar Upadhyay,
Vineet Kumar Chauhan, Trilok Singh, Dolly Sharma

106. **Evaluation of Performance of AI System during Voice Recognition in Social Conversation** **595**
Fred Torres-Cruz, Shruti Mathur, Manoj Sathe, Ankush Sharma,
Dharam Buddhi, Durgaprasad Gangodkar

107. **Performance Analysis of Median Filter in Comparison with Gabor Filter for Skin Cancer MRI Images Based on PSNR and MSE** **601**
S. Likhitha and Radhika Baskar

108. **Performance Comparison of ACO-OFDM with C-OFDM using 1024-QAM to Reduce BER in VLC System** **606**
A. Ujwala and B. Anitha Vijayalakshmi

109. **Performance Comparison of ACO-OFDM with C-OFDM using 4-QAM to Reduce BER in Visible Light Communication System** **610**
A. Ujwala and B. Anitha Vijayalakshmi

110. **Design of Coaxial Feed Microstrip Patch Antenna to Reduce Return Loss and Comparing with Square Shaped Antenna** **614**
G. Anil Kumar and G. Uganya

111. **Design and Performance of Hexagonal Patch Antenna using Porcelain Dielectric Material in Comparison with Lead glass Dielectric Material** **618**
G. Varshitha and Bhuvaneswari Balachander

112. **Analysis and Modeling of Magnetoelastic Circular Membrane** **624**
Awantika Mishra, Sahil Chawla and Sushma Santapuri

113. **Reflection Coefficient Improvement of Leather Substrate Wearable Antenna with Square and Circular Slot compared to Cotton Substrate Antenna** **632**
Avula Teja and Dr. K. Chanthirasekaran

114. **Integration of DL on Multi-Carrier Non-Orthogonal Multiple Access System with Simultaneous Wireless Information and Power Transfer** **640**
Mr. Abhay Chaturvedi, Ankit Bhardwaj, Digvijay Singh, Dr. Bhasker Pant
José Luis Arias Gonzáles and Firos A.

115. **A Novel PSO-Based Channel Allocation System for Interference in 5G and Higher-Level Wireless Communication Systems** **644**
Ranjeet Yadav, Dr. Ramakrishnan Raman, Arti Rana, Dr. Durgaprasad Gangodkar
Mohit Tiwari and Potaparthini Kiranmayee

116. **The Double Wireless Controllers' Monsieur Via Bluetooth** **649**
Gurmandeep Kaur and Rajesh Guputa

117. **Utilizing The FEM Approach, PSO, and Firefly Algorithm, Surge Wire Grades Ring Modification was Achieved** **655**
Ms. Amandeep Kaur and Dr. Harveer Singh

118. **Signals & Systems Imaging Real-time Facial Recognition Using VLSI** **660**
Dr. Vinay Kumar S.B. and Ritika Mehra

119. **Manual Led Adjustment Vintage Airspeed Monitoring without Microcontroller** **666**
Mr. N. Shantha Kumar and Dr. Deepak Kumar Sinha

TRACK V: GOVERNANCE, RISK AND COMPLIANCE

120. **Detection of Credit Card Fraud using Machine Learning Algorithms** **673**
Akhilesh Kumar Singh

121. **Classification based Interactive Model for Crop Yield Prediction: Punjab State** **678**
Sarika Chaudhary, Shweta Mongia, Sugandha Sharma, Niharika Singh

122. **Identification of Unlawful Construction Project using Aerial View in Urban Area** **683**
Mr. Arvind Kumar, Rohini Mahajan

123. **Analyzing the Student's Risk in using Electronic Gadgets using Hybrid Machine Learning Model as Case Study** **689**
V. Belsini Gladshiya and Dr. K. Sharmila

124. **Groundwater Delineation using RS and GIS for Gurgaon Region** **692**
Dr R.K. Jain

125. **Analysis on Digital Forensics Challenges and Anti-forensics Techniques in Cloud Computing** **699**
Anjanee Kumar, Monika Chauhan, A.K. Jain, Prashant johri

126. **A Process for Improved Agriculture: Harvest Forecasting** **703**
Dr. Prafulla Kumar and Pooja Verma

127. **Assessment of A Higher Water Tank Taking into Account the Capacity and Foundation Wall in Earthquake Regions** **708**
Syed Mohd Arif and Dr. Sachin Gupta

128. **PCA and Maker Methodology for Wildly Unbalanced Network Intrusion Performance Improvement** **713**
Mr. Naveen Bansal and Mr. Mizan Ali Khan

129. **Search of Orphanages to Use the Formula Factor** **718**
Ms. Veedita and Mr. Sushil Tripathi

130. **Complete Review of IoT Solutions for Sustainably Agricultural Production** **724**
Ms. Aarti Yadav and Ms. Amandeep Kaur

131. **Employing Adbdconvolutional Knn, Diagnosis of Irregular Driver Behavior** **730**
Dr. Chandramma and Dr. Manjunath C.R.

TRACK VI: BLOCKCHAIN TECHNOLOGY

132. **A Study on the Applications of Supply Chain Management** **737**
Chhavi Gupta, Vipin Kumar, Kamesh Kumar

133. **Ecosystem Implementations in Smart City Through Block Chain Technology** **742**
Dr. Ashwini Kshirsagar, S. Pranavan, M.Z.M. Nomani , V.K. Srivastav, C. Ramprasad, Dr. Surendra Kumar Shukla

134. **Implementation and Execution of Block Chain Technology in the Field of Education** **748**
Joel Alanya – Beltran, Jesús Padilla-Caballero, Freddy Ochoa – Tataje, Claudia Poma – Garcia, Adolfo Perez – Mendoza and Dr. Trishu Sharma

135. **Blockchain Implementation in Financial Sector and Cyber Security System** **754**
Jeidy Panduro-Ramirez, Dr. Ashvine Kumar Sharma, Gurpreet Singh, Pavana Kumari H., Claudia Poma – Garcia, Dr. Surendra Kumar Shukla

136. **Revolutions of Blockchain Technology in the Field of Cryptocurrencies** **761**
Mr. Mahabub Basha S., Dr. Manyam Kethan, Dr. Venkateswarlu Karumuri , Dr. Shouvik Kumar Guha, Anita Gehlot, Dr. Durgaprasad Gangodkar

137. **Blockchain in Cloud Computing: Design Challenges** **765**
Sanjay D. Jondhale, Sachin K. Korde, Dhananjay S. Rakshe, I. Mohana Krishna, Shaik Vaseem Akram, Devvret Verma

138. **Block Chain Integration with AI for Agriculture Product Supply Chain** **774**
Dipesh Uike, Marjorie Villavicencio-Mendoza, Anita Gehlot , Dr. Devvret Verma , Jeidy Panduro-Ramirez, Edi Susanto

139. **Blockchain: Remaking the Healthcare Sector** **779**
Ms. Bhawna Sharma, Kawalpreet

140. **The Development of the Multi-Layer Security Network Authentication System Using Blockchain Technology** **786**
S.K. Uma Maheswaran, Arti Rana, Dr. Kavita Rani, Dr. Yashpal Singh Suhas Harbola, Dr. Kumud Pant

141. **Efficient Integrated a IoT and Blockchain Recognition Model using Blockchain Technology** **792**
Preetam Suman, Sana Zeba and Amrit Suman

142. **An Effective Review of the Problems and Opportunities of the Supply Chain for Pharmaceuticals** **799**
Prof. Zabeeulla1 and Dr. Varalakshmi S.

143. **A Survey on Cryptocurrencies Utilizing the Blockchain** **805**
Dr. V. Manikandan1 and Dr. S. Anantha Babu

144. **Side Tracking in the Alimentary Supply Chain with Network Interface** **813**
Arif Ali and Dr. Sindhu Madhuri

145. **An Intensive Analysis of Recent Trends of Block Chain Technology in the Role of Development in the Healthcare Sector** **818**
Dr. Merin Thomas and Dr. V Karunakaran

146. **Develop and Test a Mixed Ledger System Using Block Chain** **825**
Prof. Shreenidhi H.S. and Feon Jaison

147. **Wireless Communications Network and Mobile Computing using Blockchain in Distributed Internet of Things** **832**
Prof. Ramapati Mishra, Kapil Joshi and Dr. Durgaprasad Gangodkar

148. **Investigating the Role of Block Chain to Secure Identity in IoT for Industrial Automation** **837**
Dipesh Uike, Sandeep Agarwalla, Vipul Bansal, Mr. M. Kalyan Chakravarthi, Rajesh Singh and Mr. Prabhdeep Singh

149. **Blockchain-Enabled Secure Data Sharing Scheme in Wireless Communication** **842**
Prof. Ramapati Mishra, Kapil Joshi and Dr. Durgaprasad Gangodkar

150. **Application of Cryptographic Methods to Blockchain Technology to Increase Data Reliability** **848**
Pallavi Shetty, M. Ranjith Kumar, Tushar Vyas, Angulakshmi M., Anita Gehlot and Dr. Kumud Pant

151. **Blockchain-Based Secure Mengers Authentication for Industrial IoT** **853**
Dr. Shashidhar Sonnad, Dr. Mohan Awasthy, Dr. Kantilal Rane, Dr. Moon Banerjee, Dharam Buddhi and Dr. Bhasker Pant

TRACK VII: INDUSTRY 4.0

152. **Comparison of Open Source Data Extraction Tools** **861**
J. Annies Mary Jeyaseeli, Dr. C. Shanthi

153. **An Assessment of Milk Adulteration IoT Based Model to Identify the Quality of Milk using Lab View** **868**
Medha Khenwar, Swati Vishnoi, Ankur Sisodia

154. **Comparative Analysis of BERT-base Transformers and Deep Learning Sentiment Prediction Models** **874**
Anandan Chinnalag, Ashok Kumar Durairaj

155. **Smart Factory Setting Awareness by Noise-Pattern Analysis** **880**
S. Pradeep, Yogesh Kumar Sharma, Chaman Verma, Neagu Bogdan Constantin, Zoltán Illés, Maria Simona Raboaca, Traian Candin Mihaltan

156. **A Study to Evaluate the Industry 4.0 Implementation Status Towards the Sustainability of Indian SME's** **891**
Mohd. Nazim, Harsimran Singh Sodhi, Harish Kumar

157. **Cyber-Physical System for Industrial Automation Using Quantum Deep Learning** **897**
Anand Singh Rajawat, S.B. Goyal, Pradeep Bedi, Neagu Bogdan Constantin, Maria Simona Raboaca, Chaman Verma

158. **Experimental Analysis for Position Estimation using Trilateration and RSSI in Industry 4.0** **904**
Robin Singh Chouhan, Anand Singh Rajawat, S.B. Goyal, Pradeep Bedi, Neagu Bogdan Constantin, Maria Simona Raboaca, Chaman Verma

159. **Using Machine Learning for Industry 5.0 Efficiency Prediction Based on Security and Proposing Models to Enhance Efficiency** **909**
Piyush Pant, Anand Singh Rajawat, S.B. Goyal, Deepmala Singh, Neagu Bogdan Constantin, Maria Simona Raboaca, Chaman Verma

160. **Time Series Analysis of the Monkeypox Datasets** **915**
Aswin S., Shrieenithy S.K., Puli. Venkatesh Kumar, M. Vidhya Lakshmi, K. Durga Devi

161. **IoT Enabled RO Water Filter Indicator** **920**
Prabhneet K. Sohanpal, Parneet S. Sarao, Paresh Goyal, Naresh Kumar Trivedi, Raj Gaurang Tiwari

162. **An EOQ Model for Deteriorating Items with Time Dependent Demand** **926**
Khyati, Dr. Ashendra Kumar Saxena

163. **DLC Algorithm for Milk Contamination Categorization** **931**
Ankur Sisodia, Swati Vishnoi, Sachin Upadhyay, Dushyant Chauhan

164. **Role of Artificial Intelligence in Formative Employee Engagement** **936**
Dr. Melanie Lourens, Dr. Somanchi Hari Krishna, Dr. Ashutosh Singh, Dr. Subrato Kumar Dey, Dr. Bhasker Pant, Dr. Trishu Sharma

165. **Analysis of Food Calorie using Extended Kalman Algorithm and Novel Hybrid Deep-Learning Framework** **942**
S. Anusuya and K. Sharmila

166. **Machine Learning Models for Fake News Detection: A Review** **947**
Dasari Gowthami, Ananya Gupta, Monika Sharma, Tapas Kumar, Shweta Mongia and Niharika Singh

167. **IIoT-Sec: Cyber Security in Industrial Internet of Things** **952**
Heena Thadani, Jahnavi Sharma, Rohaila Naaz and Anand Sharma

168. **Soil Identification and Classification using Machine Learning: A Review** **958**
Rakesh Kr. Dwivedi, Neeraj Kumari, Ashish Bishnoi and Rajendra Prasad Pandey

169. **Cooperative Resource Allocation Technique for BER Improvement Compared to Priority Resource Allocation Technique in the MU-MIMO System** **964**
P. Nagendra Reddy and Dr. K. Chanthirasekaran

170. **Parameters of Water to be Predicted using Regression Analysis** **970**
Ms. Bhawna Sharma and Harsimran Kaur

171. **Product Price Optimization using Least Square Method** **977**
Arvind Kumar and Dr. Vipin Solanki

172. **An approach towards Real-Time Object Detector Using Open CV** **981**
Muthu kumar and Rahul Bhatt

173. **Deep Learning: A Critical Analysis of its Effects on Organizational Performance** **986**
Dr. Melanie Lourens, Dr. Kamal Kishor Pandey, Mr. Alok Upadhyay
Ms. Mallika Tewari, Dr. Shiv Kant Tiwari, Dr. Surendra Kumar Shukla

TRACK VIII: EDUCATION 4.0

174. **Infographics based Teaching Learning Process for Enriching Education System** **995**
Niharika Singh, Gaurav Kr. Rajput, Vivek Kumar, Tushar Mehrotra

175. **Human-Animal Conflict Analysis and Management - A Critical Survey** **1003**
V. Janani, Dr. C. Shanthi

176. **A DNN is Programmed to Prediction Scholarly Accomplishment** **1008**
Mr. Mizan Ali Khan, Harmandeep Kaur

177. **Stability Theory with Real Life Applications** **1013**
Rashi Arya, Dr. Gopal Kumar Gupta, Dr. Abhinav Saxena, Dr. Vipin Kumar

178. **Graph Family Characterization using the Path Length Array** **1018**
Pardeep Kumar, Mr. Sanjay Arora

179. **Abalone Age Prediction using Optimized Ensembel Model** **1023**
Sumandeep Kaur, Sahana Chaudhary, Anshul Thakur,
Rohit Bajaj, Abhishek Gupta, Anshuman Majotra

180. **Challenges of E-Learning and Implementing a Responsive E-Learning in Higher Education** **1028**
Ashutosh Singh, Korakod Tongkachok, Melanie Lourens, K. Sreenivasulu,
Kapil Joshi and Kumud Pant

181. **Analytics in Higher Education: Scoping the Landscape of Research in the Area** **1034**
Dr. Natashaa Kaul, Dr. Amruta Deshpande, Amit Mittal and Dr. Vishal Jain

182. **Using the Ensemble Approach, Predict Students' Achievement** **1040**
Aishwary Awasthi and Navdeep Prashar

183. **Measuring the Impact of Gamification on Kindergarten Students using Augmented Reality** **1045**
Anshu Tomar and Dr. Meenakshi Sharma

TRACK IX: SYSTEM MODELING AND DESIGN IMPLEMENTATION

184. **Analysis of Retinal Detachment Severity using RDidean Evaluative System and Classifier Assessment Implementation Models** **1051**
L. Poongothai, Dr. K. Sharmila

185. **Adaptive Admission Control Policy in Distributed Real Time Database System** **1057**
Nupa Ram Chauhan and Rakesh Kumar Dwivedi

186. **Tools for Social Network Analysis and Mining** **1063**
Alka Chaudhary, Nishank Jain, Anil Kumar

187. **Experimental Analysis of Performance Paradigms for Real Time Operating System (RTOS)** **1068**
Juginder Pal Singh, Shilpi Yadav, Vineet Kumar Chauhan
Jitesh Kumar Bhatia, Pradeep Kumar Singh

188. **Mitigate Complexities in Algorithms using the Computation Virtual Instrument** **1073**
Aishwary Awasthi, Richa Dogra

189. **Scope of Agile Approach for Software Testing Process** **1079**
Khushboo Pathak, Dr. Shalini Ninoria and Dr. Shambhu Bharadwaj

190. **Li-Fi Technology based Automatic Vehicle Speed Controller** **1084**
M. Shunmugathammal, G. Ramya, Navaneetha Krishnan, M. Sornalakshmi and T. Daniya

191. **A Comparative Study of Implementing Agile Methodology and Scrum Framework for Software Development** **1088**
Dr. Namit Gupta, Dr. Himanshu Sharma, Sudhanshu Kumar, Aman Kumar and Prof. (Dr.) Rajeev Kumar

192. **A Province Time - Series Data Prognostication Model - Based Unconventional Research** **1093**
Ratish Sharma and Meenakshi Garg

193. **An Impact on Structural Model upon Renewable Energy Data Science and Continuing to Improve the Energy Conservation Mindset for Environmental Sustainability** **1098**
Mr. Manish Sharma and Mr. Rishi Sikka

194. **Api-Based Music Recommender System** **1104**
Md Daniyal Daniyal and Vincent Balu

195. **Using CNN and Open CV, Mood Identification with Face Feature Learning** **1109**
Hem Lata Sharma and Dr. Meenakshi Sharma

196. **Economic Order Quantity Method for a Virtual Vm Distributed System** **1113**
Mr. Tajpal and Dr. Monika Abrol

197. **Spell Check Programme to Fix Mistakes in a Language** **1117**
Rahul Bhatt and Dr. Vanitha K.

TRACK X: ROBOTICS, CONTROL, INSTRUMENTATION AND AUTOMATION

198. **Artificial Intelligence Optimization of Load Scheduling with Economic Load Dispatch in Industrial Power Generating Units** **1127**
Deepa Priyanshu, Rubina Liyakat Khan, Reem Khaled Matahen and Danish Ather

199. **Machine Learning Methods of Industrial Automation System in Manufacturing and Control Sector using Joystick with and Robotic Technology** **1134**
Sajithunisa Hussain, Remya P. George, Nazia Ahmad, Rifat Jahan

200. **Robotic Advancements in Business Process Automation using Artificial Intelligence: An Investigative Study** **1141**
Dr. Ranjana Sharma, Dr. Shambhu Bharadwaj, Sarthika Dutt, Mayank Tomar

201. **Automated Roadlights Powered by Solar Energy** **1144**
Aishwary Awasthi, Rini Saxena

202. **Hybridized Encrypted Communications System based on Fragmentation for Cloud Infrastructure** **1149**
Madhav Solanki and Rajni Verma

203. **Autonomous Military Robot using IoT for Covert Operations and Multiutility Computing** **1154**
Anshuman Singh and Jagdeep Kaur Walia

204. **To Use A Quick R-Cnn Algorithm, an Automated Strategy for Tooth Diagnostics** **1160**
Kushdeep Singh and Dr. Monika Abrol

205. **Analysis of The Effects to Recognize the Use of Effective Green Cloud - Based Solutions Using Tiny Smart Grid to Light Web Data Centres** **1165**
Mr. Rajat Kumar and Mr. Mizan Ali Khan

206. **Agrobot is Used for Robotic Soil Regulate Chemical Seeding** **1171**
Ms. Bharti Bedi and Dr. Umesh Sharma

207. **An Intensive Reviews on AI and its Impact on E-commerce** **1176**
Dr Suchithra R and Arif Ali

208. **Super Six - Axis Cord Influenced Linear Laser for Personal Flower Management in Cultivation with Live Control Systems is Connected to the Robot Manipulator** **1181**
Govind Kumar Sharma and Dr. Vinay Kumar S.B.

209. **A Smart Vehicle Control Remotely Using Wifi** **1185**
Dr. Arvind Kumar Pandey and Dr. Warish Patel

210. **Computational Intelligence Approach to Improve The Classification Accuracy of Brain Tumor Detection** **1192**
Dr. S. K. Uma Maheswaran, Dr. S. Deivasigamani, Kapil Joshi, Dr. Devvret Verma, Prof. Dr. Santhosh Kumar Rajamani and Dhyana Sharon Ross

TRACK XI: BIOMEDICAL ENGINEERING AND HEALTHCARE TECHNOLOGIES

211. **Comparative Analysis of Machine Learning Models to Predict Depression, Anxiety and Stress** **1199**
Srishti Singh, Harsh Gupta, Prashant Singh, Arun Prakash Agrawal

212. **Using Deep Learning Techniques for Diagnosis & Treatment with COVID-19 & AI Technology** **1204**
Ms. Saranjeet Kaur, Ms. Mansirat Kaur

213. **A Review on Tomato Disease and Artificially Intelligent Cure** **1208**
Sachin Sharma, Vinay K. Mishra, Ashendra K. Saxena

214. **Survey on Automatic Detection of Diabetic Retinopathy Screening** **1214**
Bindu Priya Makala, Dr. Manoj Kumar D., Dr B.L. Sirisha

215. **RBTM: Prediction of COVID-19 from Random Blood Test with Machine Learning Algorithms** **1121**
L. William Mary, S. Albert Antony Raj

216. **Real Time Multistage Attack Detection Leveraging Machine Learning and MITRE Framework** **1226**
Yuvraj Sanjayrao Takey, Sai Gopal Tatikayala, Mahesh Uttam Patil, Lakshmi Eswari P.R., Satyanadha Sarma Samavedam

217. **Analytical Comparison of Deep Learning Algorithms for Fracture Detection** **1231**
Niharika Singh, Gaurav Kumar Rajput, Priya Mittal, Parth Madan

218. **Diabetes Predication Analysis using Supervised Machine Learning Algorithm** **1239**
Jyoti Agarwal, Anu Sharma, Namit Gupta, Lakshmi Eswari P.R., Satyanadha Sarma Samavedam

219. **Study of Machine Learning Models for the Prediction and Detection of Lungs Cancer** **1243**
Amit Singh, Prof. (Dr.) Rakesh Kumar, Dr. Rajul Rastogi

220. **Skin Disease Detection based on Machine Learning Techniques** **1249**
Ramya G., Saanthosh Guru A., Kabilan S., Ramkaran R.

221. **Infodemic Detection on Twitter During Pandemic Situation using LDA Topic Modelling** **1253**
N. Shyamala Devi, Dr. K. Sharmila

222. **Assessing Performance Evaluation of Machine Learning Algorithm for Plant Disease Detection** **1258**
Mrs. Ruchi Agrawal, Dilip Kumar Sharma, Mrs. Anupam Yadav

223. **A Novel Approach for Fatigue Driver Prediction using Deep Learning Model** **1262**
K. Chitra, Dr. C. Shanthi

224. **Detection of Wheat Crop Quality using Deep Convolution Neural Network** **1266**
Dr. Ranjana Sharma, Priyanka Suyal, Sarthika Dutt, Dr. Shambhu Bharadwaj

225. **A Robust Machine Learning Model for Prediction: The Electroencephalography** **1270**
Rohit Bajaj, Chahil Chaudhary, Himanshu Bhardwaj, Lokesh Pawar, Ms. Himanshu Gupta, Deepika Sharma

226. **An Optimized Ensemble Model for Early Breast Cancer Prediction** **1275**
Lokesh Pawar, Shruti Kuhar, Deepak Rawat, Aarav Sharma, and Rohit Bajaj

227. **Early Brain Stroke Prediction Using Machine Learning** **1280**
Abdur Nur Tusher, Md. Shibli Sadik and Md. Tariqul Islam

228. **"Disease Detection of Plants using Deep Learning Approach" A Review** **1285**
Ajay Chakravarty, Dr. Arpit jain and Ashendra Kr. Saxena

229. **Skin Cancer Segmentation using R-CNN Comparing with Inception V3 for Better Accuracy** **1293**
S. Likhitha and Radhika Baskar

230. **Skin Cancer Classification using CNN in Comparison with Support Vector Machine for Better Accuracy** **1298**
S. Likhitha and Radhika Baskar

231. **Improved Accuracy in Speech Recognition System for Detection of COVID-19 using Support Vector Machine and Comparing with Convolution Neural Network Algorithm** **1303**
Rallapalli Jhansi and G. Uganya

232. **Novel use of Deep Convolution Architecture Pre-Trained on Surface Crack Dataset to Localize and Segment Wrist Bone Fractures** **1308**
Deepa Joshi and Thipendra P. Singh

233. **Classification of Nutritional Deficiencies in Cabbage Leave Using Random Forest** **1314**
Nupa Ram Chauhan, Ratnesh Kumar Shukla, Alok Singh Sengar and Anurag Gupta

234. **Prediction of Liver Damage using the Quartet Technique** **1320**
Tanmay Goswami and Pardeep Kumar Jindal

235. **Code Injection Assault & Mitigation Model to Prevent Attacks** **1324**
Shalom Akhai and Vincent Balu

236. **Using Classifier with Gated Recurrent Unit-Sigmoid Perceptron, Order to Get the Right Bird Species Detection** **1329**
Rainy Sikand and Harveer Singh

237. **Intelligence Methods to Fight Covid-19 Spread** **1335**
Dr. Somashekhara Reddy and Prof. Santosh

238. **Ethereum and Intelligent Systems Technologies for Covid-19** **1341**
Yogesh Kumaran S. and Dr. Sunanda Das

239. **Using Deep Neural Network to Detect Thyroid Cancer** **1347**
Dr. Arvind Kumar Pandey, Dr. Amit Barve

240. **Adaptive Multi Scale Products Threshold-Based MRI Denoising** **1352**
Ashwini Kumar and Dr. Kamal Sutariya

241. **Detection of Skin Diseases via Deep Learning using SVM Method** **1358**
Alok Kumar Moharana and Dr. Daxa Vekariya

242. **Most Accurate Prediction of Liver Disease using the Ensemble Technique** **1364**
Sumanta Sen and Dr. Warish Patel

243. **A Convolution Neural Network-based Prediction of Fetal Health** **1369**
Dr. Arun Kumar Marandi and Dr. Harshal Shah

244. **ML based with Decision Tree Method for Classifying the Breast Cancer Level** **1375**
Divya Paikaray and Dr. Gordhan Jethava

245. **Skin Disease Detection using Deep Learning** **1380**
Dr. Tarun Parashar, Kapil Joshi, Ravikumar R.N., Dr. Devvret Verma, Dr. Narendra Kumar and K. Sai Krishna

TRACK XII: DIGITAL IMAGE PROCESSING

246. **The Impact of Prolonged Sitting on Sagittal Plane Postural Angle in School Going Adolescent through Photographic Method – A Study** **1387**
Somya Tiwari, Yamini Sharma, Karan Arya, Ritu Tomar and Deependra Rastogi

247. **A Comprehensive Review on Deep Learning based Image Dehazing Techniques** **1392**
Rahul Vishnoi, Pankaj Kumar Goswami

248. **Image Processing based Brain Tumor Classification using VGG16 Compared with SVM to Improve Accuracy** **1398**
Ch. Ramya Pravallika, Radhika Baskar

249. **Orthogonal Schemes for Handwritten Digits Recognizing from Image Data** **1402**
Pankaj Saraswat, Suman Saini

250. **Investigating the Role of Image Processing to Identify Pattern for Industrial Automation** **1407**
Ms. Gagandeep Kaur, Mr. Vincent Balu

251. **Comparison of Image Interpolation Methods for Image Zooming** **1413**
Krishnamoorthy, Subhashish Goswami

252. **Iot Framework for Manufacturing and Image Classification** **1418**
Syed Rashid Anwar, Dr. Rachit Adhvaryu

253. **PSO based Medical Image Enhancement for Quality Decisions** **1424**
Dr. Jyotirmaya Sahoo, Dr. Pooja Sapra

254. **Thermal Image-Based Fault Analysis of Induction Motors using a Novel Machine Learning Model** **1429**
Akash Kumar Bhagat, Prof. Ankit Chauhan

255. **Survey on Sentiment Analysis using Deep Learning** **1434**
Dr. K. Sharmila, N. Shyamala Devi, Dr. R. Devi

256. **Performance Analysis of Deep Learning based Face Recognition Model for Video Surveillance** **1439**
Shahina Anwarul, Susheela Dahiya, Tanupriya Choudhury

257. **A Review on AI Techniques Applied on Tree Detection in UAV and Remotely Sensed Imagery** **1446**
Harjinder Singh, Rakesh Kumar Dwivedi, Anil Kumar, Vinay Kumar Mishra

258. **Credit Card Fraud Detection using Machine Learning Techniques** **1451**
Nishank Jain, Alka Chaudhary and Anil Kumar

259. **Visualizing Semantic Web Data using Various Tools Focusing RDF, OWL and SPARQL** **1456**
Rupal Gupta, Sanjay Kumar Malik

260. **The Performance Evaluation of Pre-trained CNN Architectures for Tumor Classification** **1461**
Chandni, Monika Sachdeva, Alok Kumar Singh Kushwaha

261. **Plant Leaf Disease Identification using Machine Learning** **1466**
Supriya Kumari, Neeraj Kumari, Dr. Nuparam

262. **Improved Deep Residual Convolution Neural Network for Detection of Arrythmia from Electrocardiographic Data** **1477**
Ankita Shukla, Dr. Izharuddin

263. **An Enhanced and Effective Approach for Object Detection using Deep Learning Techniques** **1482**
Navin Kumar Agrawal, Ashutosh Shankhdhar

264. **Image-Based Attendance System using Facial Recognition** **1487**
Vineet Kumar Chauhan, Trilok Singh, Abhishek Dixit, Raushan Kumar Singh, Pradeep Kumar Singh, Juginder Pal Singh

265. **Emotion Detection using Facial Expressions** **1491**
Jitesh Kumar Bhatia, Juginder Pal Singh, Pradeep Kumar Singh, Vineet Kumar Chauhan

266. **A Comprehensive Review on Real Time Object Detection using Deep Learing Model** **1499**
Pankaj Kumar Goswami, Garima Goswami

267. **Machine Learning and its Applications: A Study** **1503**
Amit Jain, Shruti Rani

268. **Analysis of Agricultural Toolset based on Artificial Intelligence** **1508**
Yashi Bajpai, Dr. Madhavi Srivastva, Trilok Singh, Vineet Kumar Chauhan, Diwakar Upadhyay, and Abhishek Dixit

269. **Vulnerability Detection in Source Code using Deep Representation Learning** **1515**
Vineet Kumar Chauhan, Awadhesh Kumar

270. **A ML Algorithm was used to Forecast the Gain or Loss of a Shareholder in the Financial Markets** **1521**
Dr. Ramakant Upadhyay, Harinder Kaur

TRACK XIII: INFORMATION SECURITY & ENGINEERING

271. **Standards and Security in Information Calling through Internet Banking** **1531**
Er. Mandeep Singh, Er. Prabhjot Kaur, Er. Navneet Chaoudhary

272. **XSS: Cross-site Scripting Attack Detection by Machine Learning Classifiers** **1535**
Prince Roy, Rajneesh Kumar, Pooja Rani, Tanmoy Saha Joy

273. **Detection of Malicious Domains in the Cyberspace using Machine Learning & Deep Learning: A Survey** **1540**
Shaheetha L., Vadivazhagan K., Mohamed Parvees M.Y.

274. **A Framework to Detect Crime through Twitter Data in Cyberbullying with EFFDT Model** **1544**
M. Nisha, Dr. J. Jebathangam

275. **Deep KNN Based Text Classification for Cyberbullying Tweet Detection** **1550**
M. Nisha, Dr. J. Jebathangam

276. **Enhancing Security of PGP with Steganography** **1555**
Praveen Kumar Tripathi, Ratnesh Kumar Shukla, Niraj Kumar Tiwari, Bhawesh Kumar Thakur, Rajesh Tripathi, Shelendra Pal

277. **Duality of Graph and Its Application in Electric Circuit** **1561**
Puneet Kumar, Dr. Abhinav Saxena, Dr. Gopal Kumar Gupta, Dr. Kamesh Kumar

278. **An Enhanced Algorithm to Improve the Security in Cloud using Hybrid Hash Algorithm** **1564**
Prateeksha Jain, Dr. Vinay Kumar Mishra, Mr. Vivek Kumar

279. **Intrusion Detection Using Enhanced Transductive Support Vector Machine** **1571**
V. Priyalakshmi, Dr. R. Devi

280. **Identification and Analysis of Log4j Vulnerability** **1580**
Hritik Gupta, Alka Chaudhary, Anil Kumar

281. **Malicious Domain Detection using NLP Methods – A Review** **1584**
Pradeepa G., Dr. Devi R.

282. **A Study of Cryptographic Primitives in the context of Blockchain's Data Integrity and Privacy** **1589**
Dr. Ramveer Singh, Dr. Pooja, Dr. Ambuj Kumar Agarwal, Rohaila Naaz, Dr. Raj Kumar, Dr. Richa Vijay

283. **Analysis and Classification of Security Mechanisms on the Cloud for Digital Healthcare** **1596**
Vinay Verma, Anand Sharma

284. **Securing Data in Cloud: Major Threats and Recent Strategies** **1602**
Iman Shakeel, Shabana Mehfuz, Shahnawaz Ahmad

285. **Enhancement of Accuracy in Speech Recognition System for Detection of Covid-19 using Support Vector Machine** **1608**
Rallapalli Jhansi, G. Uganya

286. **Person Authentication Using EEG and a Variable Universal Background Model** **1614**
Mr. Vishal Sharma, Ms. Preet Kamal

287. **Detecting On-The-Fly Side-Channel Key-Recovery Attacks and Measuring Security of Symmetric Encryption Schemes** **1618**
Dr. Jagdish Bhadu, Ms.Shivani Thakur

288. **A Review on Cyber Security and its Threats** **1624**
Arif Ali, Dr. Beemkumar

289. **A New Way of Smart Home Security Using ML Face Recognition** **1628**
Divya Paikaray, Dr. Swapnil Parikh

Author Index