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Nota di contenuto	Intro -- Title Page -- Preface -- Contents -- Intrusion Detection System Using Convolutional Neural Network on UNSW NB15 Dataset -- VANET: Trust Evaluation Using Artificial Neural Network -- Auto Question Tagging for Health Care Using Machine Learning Technique -- A Noninvasive Model to Detect Malaria Based on Symptoms Using Machine Learning -- A Contemporary Method on Feature Selection and Classification Using Multi-Model Deep Learning Technique for Identifying Diabetic Retinopathy -- Multilevel Security Biometric Authentication Locking System Using Arduino UNO -- Footstep Power Generating System -- Secure and Privacy Based Home Patient Monitoring Internet of Things (HPMIoT) -- An Efficient Algorithm for Movie Recommendation System -- Person Identification Using Face and Speech Recognition for Visually Challenged with Mask Detection -- Framework for Authentication 802.1X Security Protocol of WNAS as RFC Access Management Device Associated with RFC Authentication Management Technique -- Fog Enabled Cloud Based Heart Rate Monitoring System -- COVID-19: Role of Deep Learning and Cloud Through Identification of Kidney, Pancreas and Intestine -- Energy Efficient Clustering Technique for VANET -- Trust-Based Public Key Management for Data Distribution in Wireless Networks -- Enhanced Handwritten Document Recognition Using Confusion Matrix Analysis --

The Role of AI in Battling Against Covid-19 Crisis in India -- Deep Learning Based Static Analysis of Malwares in Android Applications -- A Comparative Study of Detection and Classification of Emotions on Social Media Using SVM and Naive Bayes Techniques -- Survey on Erythema Migrans, and Basal Cell Carcinoma in Computer-Aided Diagnosis -- Sign Language Translator Using YOLO Algorithm -- Student Performance Prediction Using Machine Learning. A New Approach for Security in Cloud Data Storage for IOT Applications Using Hybrid Cryptography Technique -- Intelligent Framework for Number Plate Detection and Recognition in Toll Using Image Processing Techniques -- IoT Based Health Monitoring System -- Traffic Monitoring System Using IoT and DL -- Distinct Actions Classification Using Human Action Tracker Technique in Sports Videos -- Smart Wearable System to Assist Asthma Patients -- Covid-19 Sentiment Analysis Using Deep Learning and Machine Learning -- Maize Grain Quality Classification Using Convolutional Neural Network -- Finding State of Mind Through Emotion and Sentiment Analysis of the Twitter Text -- A Novel Dual Encryption Algorithm to Enhance the Security in Image Transmission Using LSB 3-2-2 Technique -- Applications of Object Detection, Brain Tumor Detection and Classification -- Parallel Computing Enabled Cloud-Based IOT Applications -- A Survey on Securing Medical Data in Cloud Using Blockchain -- Network Lifetime Analysis in IOT Environment in Healthcare Sectors Using Deep Learning Routing Approach -- An Comprehensive Survey on Applications of Precision Agriculture in the Context of Weed Classification, Leave Disease Detection, Yield Prediction and UAV Image Analysis -- IoT Based Shirodhara -- Model for Refactoring a Software Using Feature Oriented Dependency (FOD) -- Automatic Biometric System for Finger Knuckle Using Sparse Encoder Approaches -- Stock Market Prediction Using Machine Learning Techniques -- Smart Surveillance System for Abnormal Activity Detection Using CNN -- Increased Energy Conservation in Internet of Things (IoT) Related Wireless Networking -- Multi-Scale Fish Segmentation Refinement Using Contour Based Segmentation -- Heart Disease Prediction Using Hybrid Random Forest Model Integrated with Linear Model. Heart Disease Prediction Using Convolutional Neural Network -- Ensuring the Survivability of the Trekker Using Drone and RFID Technology -- IoT Based Smart Electrolytic Bottle Monitoring -- Smartphone Controlled Fingerprint Door Lock System (SCFDLS) -- Effective Cataloging over Diverse Algorithms for Automatic Text Summarization and Its Survey -- Prospective Classification over Various Handwritten Character Recognition Algorithms - A Survey -- E-Society - A Financial and Event Management System -- Subject Index -- Author Index.

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## Sommario/riassunto

"Recent developments in parallel computing mean that the use of machine learning techniques and intelligence to handle the huge volume of available data have brought the faster solutions offered by advanced technologies to various fields of application. This book presents the proceedings of the Virtual International Conference on Advances in Parallel Computing Technologies and Applications (ICAPTA 2021), hosted in Chennai, India, and held online as a virtual event on 15 and 16 April 2021. The aim of the conference was to provide a forum for sharing knowledge in various aspects of parallel computing in communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It also provided a platform for scientists, researchers, practitioners and academicians to present and discuss the most recent innovations and trends, as well as the concerns and practical challenges

encountered in this field. Included here are 52 full length papers, accepted from over 100 submissions based on the reviews and comments of subject experts. Topics covered include parallel computing in communication, machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects. Providing an overview of the latest developments in the field, the book will be of interest to all those whose work involves the use of parallel computing technologies"--

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