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Nota di contenuto	Part I: Communication Networks and Cybersecurity -- Enhancing the Performance of Cloud Environment by a Novel Three-Stage Task Scheduling Policy -- A new approach to coupled IR sensor based Real Time system for alerting old people accidents in Rest room -- Gesture Recognition Based Virtual Mouse And Keyboard -- IoV-based Application using Deep Learning Approach -- DDoS Attack Prediction using Decision Tree and Random Forest Algorithms -- The impact of Control Plane Attacks in Software Defined Networks Environments -- Compressed data aggregation using regulated duty cycle for WSN-IOT networks -- Improving Data Centre Power Efficiency by Applying the VM consolidation Approach -- Integration of a UHF Fractal Antenna into a 1U CubeSat for Low-Earth Orbit Mission -- A Novel & Innovative

Blockchain-Empowered Federated Learning Approach for Secure Data Sharing in Smart city Applications -- Design and modelling of renewable energy sources using a partial power converter -- A qualitative study of the effects of socio-organizational factors on the information security culture of employees in a financial institution -- Part II: Embedded Systems and Smart Applications -- An Overview of Concentrated Photovoltaic Technology -- Electronic Prescription Service for Improved Healthcare Delivery -- A Review on Blockchain Smart Contract Applications -- Carbonic Acid Gas Emission Rating by Vehicles Using Datasience Techniques -- Robotics cyber security issues -- Part III: Computational Intelligence -- A comparative study of GANs (text to image GANs) -- QCNN- A Conceptual Framework for Duplicate removal in Big Data using Quality assured Crowd sourcing coupled with Neural networks -- Design and Implementation of Camera-based Security System (CBSS) for Detecting Missing Persons -- Design and Implementation of a Secure Patient Recommender and Prediction System -- SDD: An Efficient Stacked Deep Learning Technique for Social Distance Detection -- Junk Mail Content Detection using Logistic Regression Algorithm -- Predicting Fish Habitat in the Persian Gulf Using Artificial Intelligence -- Evaluation of Text Classification using Support Vector Machine compare with Naive Bayes, Random Forest Decision Tree and K-NN -- Emotion AI -- Accuracy Prediction of Rainfall Using Decision Tree Algorithm and Random Forest -- Fraud detection using decision tree algorithm to curb identity theft -- Academic Performance Prediction using Machine learning algorithms -- Accuracy Of Water Quality Prediction Using Random Forest Regression and Artificial Neural Network -- Indian Sign Language Recognition System for Interrogative Words using Deep Learning -- New Approach of Artificial Intelligence in Digital Forensic Investigation: A Literature Review -- Comparative analysis of machine learning classifiers for plant leaf disease detection -- Effective House Price Prediction Using Machine Learning -- Colour Trend Analysis using Machine Learning and Histogram -- A new AI-based approach for Rental Tax Evasion Management in Iran (Ethical Consideration) -- Bibliometric Analysis of Scientific Literature on Mental Health Research in Africa -- Multi-Modal Sentiment Analysis using Text and Audio for Customer Support Centers -- Comparative Analysis on the use of Teleconsultation using Support Vector Regression and Decision Tree Regression to Predict Patient Satisfaction -- COVID-19 in the UK: Sentiment and Emotion Analysis of Tweets Over Time -- Deep learning based sentiment analysis of customer reviews on hotels through tweets -- Diagnosis of Diabetes Type using Random Forest Algorithm and SVM for improving Accuracy -- Biometric Recognition Systems: A Short Survey -- Lung Histopathological Detection Using Image Classification -- A novel approach of Machine learning application in Astrophysics: Morphological feature wrapping based ensemble method for Galaxy shape classification using GAMA dataset -- Evaluating the Performance of a Hybrid Model for Classification of Bicycle Crash Severity and Identification of Associated Risk Factors.-Digital Transformations In Medical Applications Using Audio And Virtual Reality Procedures -- Part IV: Special Session 1 : Digital Transformation of Contemporary Business Practices -- A Review of Social Media Marketing on Digital Savvy Brand Shoppers -- Online Buying Behavior of UK University Students -- Factors Impacting A UK Based Software Business on International Expansion -- The Role of Blockchain Technology and Student Coin Case in Saudi Arabia's Higher Education Sector. The Challenge of Achieving 2030 Vision -- Part V: Special Session 2: Applications of Technology for Mental Health -- Research Protocol for a Preliminary

Evaluation of a Gamified Tool for Adult Wellbeing -- Development and Evaluation of „Perspective: Counselling Simulator“: A Gamified Tool for Developing Risk-Assessment Skills in Trainee Counsellors -- Initial Evaluation of a Mobile Therapeutic Game for Adolescent Anxiety Disorders -- New Technologies and Interventions to Improve the Mental Health of People with Diabetes -- Help over harm: Practical and ethical considerations for the evaluation and deployment of therapeutic games -- Positive addiction recovery for an online audience: Implementation design and user evaluation -- A solution for creating dynamic networks of symptoms based on patients' big data in cognitive-behavioral functional analysis and therapy – participatory design protocol -- Therapists' attitudes towards the use of AI in therapeutic practice: considering the therapeutic alliance.

Sommario/riassunto

Today, communication technology and computer engineering are intertwined, with advances in one field driving advances in the other, leading to the development of outstanding technologies. This book delves into the latest trends and breakthroughs in the areas of communication, Internet of things, cloud computing, big data, artificial intelligence, and machine learning. This book discusses challenges and opportunities that arise with the integration of communication technology and computer engineering. In addition, the book examines the ethical and social implications, including issues related to privacy, security, and digital divide and law. We have explored the future direction of these fields and the potential for further breakthroughs and innovations. The book is intended for a broad audience of undergraduate and graduate students, practicing engineers, and readers without a technical background who have an interest in learning about communication technology and computer engineering.
