

1. Record Nr.	UNISA996418186203316
Titolo	New trends in computational vision and bio-inspired computing : selected works presented at the ICCVBIC 2018, Coimbatore, India / / S. Smys [and three others]
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] ©2020
ISBN	3-030-41862-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXVI, 1726 p. 969 illus., 670 illus. in color.)
Disciplina	006.3
Soggetti	Artificial intelligence Biomathematics Computer science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Image Encryption based on 3 Dimensional Multi Linear (3D-MLT) Chaotic Transformation -- Chapter 2: A Computer Vision Based Approach for Object Recognition in Smart Buildings -- Chapter 3: A Cascade Color Image Retrieval Framework for Image Retrieval -- Chapter 4: Enhanced Geographical Information System Architecture for Geospatial Data -- Chapter 5: IoT Based Power Management and Condition Monitoring in Microgrid -- Chapter 6: A Comparative performance study of cloud resource scheduling techniques -- Chapter 7: Image Context Based Similarity Retrieval System -- Chapter 8: Emotions Recognition from Spoken Marathi Speech using LPC and PCA Technique -- Chapter 9: Implementation of Point Of Care system Using Bio-Medical Signal Stegano-graphy -- Chapter 10: Privacy assurance with content based access protocol to secure cloud storage -- Chapter 11: Leaf Recognition using Artificial Neural Network -- Chapter 12: Data Security in Cloud Using RSA and GNFS Algorithms - An Integrated Approach -- Chapter 13: Machine Learning Supported Statistical Analysis of IoT Enabled Physical Location Monitoring Data -- Chapter 14: A Genetic Algorithm based System with Different Crossover Operators for Solving the Course Allocation Problem of Universities -- Chapter 15: Detecting Anomalies in Credit Card Transaction Using

Efficient Techniques -- Chapter 16: Secure Data Processing System using Decision Tree Architecture -- Chapter 17: A Novel Framework for Detection of Morphed images using Deep Learning Techniques -- Chapter 18: A Novel Non-invasive Framework for Predicting Bilirubin Levels -- Chapter 19: A Comprehensive Study on the Load Assessment Techniques in Cloud Data Center -- Chapter 20: Multimodal biometric system using Ear and Palm Vein recognition based on GwPeSOA - Multi-SVNN for security applications -- Chapter 21: E-Agriculture -- Chapter 22: Ultra Wide Band Monopole Antenna Design by Using Split Ring Resonator -- Chapter 23: Green supply chain management of chemical Industrial development for warehouse and its impact on the environment using artificial bee colony algorithm: A Review Articles -- Chapter 24: A Novel Dyno-Quick Reduct Algorithm For Heart Disease Prediction Using Supervised Learning Algorithm -- Chapter 25: Impact of Meltdown and Spectre Threats in Parallel Processing -- Chapter 26: Algorithm For Finding Minimum Dominating Set Using Sticker Based Model In Dna Computing -- Chapter 27: Assistive Technology Evolving as Intelligent System -- Chapter 28: A Bio Potential Sensor Circuit of AFE DesignWith CT - Modulator -- Chapter 29: Image Encryption based on Transformation and Chaotic Substitution -- Chapter 30: An Efficient Geographical Opportunistic Routing Algorithm Using Diffusion and Sparse Approximation Models for Cognitive Radio Ad Hoc Networks -- Chapter 31: Traffic Violation Tracker and Controller -- Chapter 32: PTCWA: Performance Testing of Cloud based Web Applications -- Chapter 33: Analysis of Regularized Echo State Networks on the Impact of Air Pollutants on Human Health -- Chapter 34: Detection of Cancer by Biosensor through Optical Lithography -- Chapter 35: Paradigms in Computer Vision: Biology Based Carbon Domain Postulates Nano Electronic Devices for Generation Next -- Chapter 36: A Secure Authenticated Bio-Cryptosystem Using Face Attribute Based On Fuzzy Extractor -- Chapter 37: Implementation of Scan logic and Pattern generation for RTL Design -- Chapter 38: Optimization Load Balancing Over Imbalance Datacenter Topology -- Chapter 39: Text Attentional Character Detection using Morphological Operations: A Survey -- Chapter 40: IoT Based Environment Monitoring System -- Chapter 41: Design & Development of Algorithms for Detection of Glaucoma Using Water Shed Algorithm -- Chapter 42: A novel development of glaucoma detection technique using the water shed algorithm -- Chapter 43: Solutions of Viral Dynamics in Hepatitis B Virus Infection using HPM -- Chapter 44: A Mathematical Modelng Of Dengue Fever For The Dynamcs System Usng HAM -- Chapter 45: Vision-based Robot for Boiler Tube Inspection -- Chapter 46: Qualitative Study on Data Mining Algorithms for classification of Mammogram Images -- Chapter 47: Designing a framework for data migration of Odoo ERP PostgreSQL database into NoSQL database -- Chapter 48: Juxtaposition on classifiers in modeling Hepatitis Diagnosis Data -- Chapter 49: Voltage Stabilization By Using Buck Converters In The Integration Of Renewable Energy Into The Grid -- Chapter 50: OCR System For Recognition of Used Printed Com-ponents For Recycling -- Chapter 51: Modern WordNet: An Affective Extension of WordNet -- Chapter 52: Analysis of Computational Intelligence Techniques for Path Planning -- Chapter 53: Techniques for Analysis of the Effectiveness of Yoga through EEG Signals: A Review -- Chapter 54: Multiobjective integrated stochastic and deterministic search method for economic emission dispatch problem -- Chapter 55: Enhanced webpage prediction using Rank based Feedback Process -- Chapter 56: A study on distance based representation of molecules for statistical learning -- Chapter 57: Comparative Analysis of Evolutionary Approaches and computational

methods for optimization in Data Clustering -- Chapter 58: Bringing Digital Transformation from a Traditional RDBMS Centric Solution to a Big Data Platform with Azure Data Lake Store -- Chapter 59: Smart Assist For Alzheimer's Patients And Elderly People -- Chapter 60: An Unconstrained Rotation Invariant Approach For Document Skew Estimation And Correction -- Chapter 61: Smart Assistive Shoes For Blind -- Chapter 62: Comparative study on Various techniques involved in designing a Computer Aided Diagnosis (CAD) System for mammogram classification -- Chapter 63: Traffic Flow Prediction Using Regression and Deep Learning Approach -- Chapter 64: A Comparative Study on Assessment of Carotid Artery Using various Techniques -- Chapter 65: Evaluation of Fingerprint Minutiae on Ridge Structure Using Gabor and Closed hull Filters -- Chapter 66: A Perspective View on Sybil Attack Defense Mechanisms in Online Social Networks -- Chapter 67: Minor Finger Knuckle Print Image Enhancement using CLAHE Technique -- Chapter 68: Learning Path Construction Based On Ant Colony Optimization and Genetic Algorithm -- Chapter 69: Pneumonia Detection And Classification Using Chest X-Ray Images With Convolutional Neural Network -- Chapter 70: Juxtaposition on classifiers in modeling Hepatitis Diagnosis Data -- Chapter 71: An Optimized Approach Of Outlier Detection Algorithm for Outlier Attributes on Data Streams -- Chapter 72: Indo – Pak Sign Language Translator Using Kinect -- Chapter 73: Semantic interoperability for a defining Query -- Chapter 74: Gestational Diabetics prediction using Logistic Regression in R -- Chapter 75: IOT Based Gas Pressure Detection for LPG with real time No SQL Database -- Chapter 76: Hybrid Steerable Pyramid with DWT for Multiple Medi-cal Image Watermarking and Extraction using ICA -- Chapter 77: Dimensional & Spatial Analysis of Ultrasound Imaging through Image Processing - A Review -- Chapter 78: A Review on methods to handle Uncertainty -- Chapter 79: Identity-based Hashing and Light Weight Signature Scheme for IoT -- Chapter 80: Adaptive Particle Swarm Optimization Based Wire-length Minimization for Placement in FPGA -- Chapter 81: Clustering of Various Diseases by Collagen Gene Using the Positional Factor -- Chapter 82: Prediction Of Water Demand For Domestic Purpose Using Multiple Linear Regression -- Chapter 83: Implementation of Regression Analysis using Regression Algorithms for Decision Making In Business Domains -- Chapter 84: Blockchain Based System for Human Organ Transplantation Management -- Chapter 85: Identification of Melanoma using Convolutional Neural Networks for Non Dermoscopic Images -- Chapter 86: Exploitation Of Data Mining To Analyse Realistic Facts From Road Traffic Accident Data -- Chapter 87: A Deep Learning Approach for Segmenting Time-Lapse Phase Contrast Images of NIH 3T3 Fibroblast Cells -- Chapter 88: Flow distribution-aware load balancing for the data centre over cloud services with virtualization -- Chapter 89: Disease severity diagnosis for rice using Fuzzy Verdict Method -- Chapter 90: HELPI VIZ: A Semantic image Annotation and Visualization Platform for Visually Impaired -- Chapter 91: A Survey of Multi - Abnormalities Disease Detection and Classification in WCE -- Chapter 92: Detection of Alzheimer's Disease in Brain MR Images using Hybrid Local Graph Structure -- Chapter 93: A Review on Object Tracking Wireless Sensor Network an Approach For Smart Surveillance -- Chapter 94: A Mini Review on Electrooculogram Based Rehabilitation Methods Using Bioengineering Technique for Neural Disorder Persons -- Chapter 95: Applications Using Machine Learning Algorithms for Developing Smart Systems -- Chapter 96: Benchmarking of Digital Forensic Tools -- Chapter 97: An Item Based Collaborative Filtering For Similar Movie

Search -- Chapter 98: Identification of Musical Instruments Using MFCC Features -- Chapter 99: An Instance Identification Using Randomized Ring Matching via Score Generation -- Chapter 100: Performance Improvement of Multi-Channel Speech Enhancement using Modified Intelligent Kalman Filtering Algorithm -- Chapter 101: A Collaborative Method for Minimizing Tampering of Image with commuted concept of Frazile Watermarking -- Chapter 102: Interval Type-2 Fuzzy Logic Based Decision Support System for Cardiac Risk Assessment -- Chapter 103: Classification Of Multi-Retinal Disease Based On Retinal Fundus Image Using Convolutional Neural Network -- Chapter 104: Accurate Techniques of Thickness and Volume Measurement of Cartilage from Knee Joint MRI using Semiautomatic Segmentation Methods -- Chapter 105: A Hybrid Approach Using Machine Learning Algorithm For Prediction Of Stock Arcade Price Index -- Chapter 106: Disease severity diagnosis for rice u.

---

#### Sommario/riassunto

This volume gathers selected, peer-reviewed original contributions presented at the International Conference on Computational Vision and Bio-inspired Computing (ICCVBIC) conference which was held in Coimbatore, India, on November 29-30, 2018. The works included here offer a rich and diverse sampling of recent developments in the fields of Computational Vision, Fuzzy, Image Processing and Bio-inspired Computing. The topics covered include computer vision; cryptography and digital privacy; machine learning and artificial neural networks; genetic algorithms and computational intelligence; the Internet of Things; and biometric systems, to name but a few. The applications discussed range from security, healthcare and epidemic control to urban computing, agriculture and robotics. In this book, researchers, graduate students and professionals will find innovative solutions to real-world problems in industry and society as a whole, together with inspirations for further research.

---