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Nota di contenuto	Image-based weld-joint type classification using bag of visual words -- Speech Recognition based prediction for mental health and depression: a Review -- A Strategic Technique for Optimum Placement and Sizing of Distributed Generator in Power System Networks Employing Genetic Algorithm -- Model-based neural network for predicting strain-rate dependence of tensile ductility of high-performance fiber-reinforced cementitious composite -- Performance Analysis of Various Machine Learning Classifiers on Diverse Datasets -- Three Finger Robotic Gripper for Irregular Shaped Objects -- Prediction of energy absorption capacity of high-performance fiber-reinforced cementitious composite -- Data Analysis on Determining False Movie Ratings -- Power

Consumption Saving of Air Conditioning System using Semi-Indirect Evaporative Cooling -- Recrudesce: IoT based Embedded Memories Algorithms and Self Healing Mechanism -- Design and Performance Analysis of InSb/InGaAs/InAlAs High Electron Mobility Transistor for High Frequency Applications -- Ant Lion Optimizer with Deep Transfer Learning Model for Diabetic Retinopathy Grading on Retinal Fundus images -- Finite Element Simulation on Ballistic Impact of bullet on Metal Plate -- Performance Analysis of Bionic Swarm Optimization Techniques for PV Systems under Continuous Fluctuation of Irradiation Conditions -- Study of Voltage controlled oscillator for the applications in K-band and the proposal of a tunable VCO -- Detailed performance study of data balancing techniques for skew dataset classification -- Compact dual-band printed folded dipole for WLAN applications -- PERFORMANCE ANALYSIS OF VARIOUS FEATURE EXTRACTION METHODS FOR CLASSIFICATION OF POX VIRUS IMAGES -- An Elucidative review on the current status and prospects of Eye Tracking in Spectroscopy -- Speech Recognition and it's Application to Robotic Arms -- Machine Learning Robustness in Predictive Maintenance under Adversarial Attacks -- Modelling and Grasping Analysis of an Underactuated Four Fingered Robotic Hand -- Design and Development of 6-Axis Robotic Arm for Industrial Applications -- A Solution to Collinear Problem in Lyapunov Based Control Scheme -- A Detailed Review of Ant Colony Optimization for Improved Edge Detection -- Machine Learning-Based Sentiment Analysis of Twitter Covid-19 Vaccination Responses -- Exploring Sentiment in Tweets: An Ordinal Regression Analysis -- Automated Classification of Alzheimer's Disease Stages using T1 weighted-sMRI Images and Machine Learning -- Employing Tuned VMD-based Long Short-Term Memory Neural Network for Household Power Consumption Forecast -- A 4-element Dual band MIMO Antenna for 5G Smartphone -- Quantization Effects on a Convolutional Layer of a Deep Neural Network -- Quantization Effects on a Convolutional Layer of a Deep Neural Network -- Non-linear fractional order fuzzy PD plus I controller for trajectory optimization of 6-DOF modified Puma 560 robotic arm -- Solving the capacitated Vehicle Routing Problem (CVRP) using Clusteringand Meta heuristic algorithm -- DroneWatch: A Novel Dataset for Violent Action Recognition from Aerial Videos -- Performance Analysis of Different Controller Schemes of Interval Type – 2 Fuzzy Logic in controlling of Mean Arterial Pressure During infusion of sodium nitroprusside in Patients. -- Early Detection of Alzheimer’s Disease Using Advanced Machine Learning Techniques – A Comprehensive Review -- Navigation of a Compartmentalized Robot fixed in Globally Rigid Formation -- Motion Planning and Navigation of a Dual-arm Mobile Manipulator in an Obstacle-ridden Workspace -- A Real Time Fall Detection System using Sensor Fusion -- A Vision-based Feature Extraction Techniques for Recognizing Human Gait: A Review -- Right Ventricle Volumetric Measurement Techniques for Cardiac MR Images -- Statistical Evaluation of Classification Models for Various Data repositories -- HIERARCHICAL CLUSTERING BASED SYNTHETIC MINORITY DATA GENERATION FOR HANDLING IMBALANCED DATASET -- Regenerative braking in an EV using Buck Boost Converter and Hill Climb algorithm -- An Enhanced Classification Model for Depression Detection Based on Machine Learning with Feature Selection Technique -- Design and analysis of gray wolf optimization algorithm based optimal tuning of PID structured TCSC controller -- Design of an Adaptive Neural Controller Applied to Pressure Control in Industrial Processes -- A Comparative Analysis of Real-Time Sign Language Recognition Methods for Training Surgical Robots -- Design and development of rough terrain vehicle using rocker-bogie mechanism --

Development of Swarm Robotic System based on AI based Algorithms -- Application of Evolutionary Algorithms for Optimizing Wire and Arc Additive Manufacturing Processes -- Health Care System Based on Body Sensor Network for Patient Emergency Response with Monitoring and Motion Detection.

Sommario/riassunto

This book features high-quality research papers presented at the International Conference of Mechanical and Robotic Engineering “Congress on Control, Robotics, and Mechatronics” (CRM 2023), jointly organized by Modi Institute of Technology, Kota, India, and Soft Computing Research Society, India, during 25–26 March 2023. This book discusses the topics such as combustion and fuels, controls and dynamics, fluid mechanics, I.C. engines and automobile engineering, machine design, mechatronics, rotor dynamics, solid mechanics, thermodynamics and combustion engineering, composite material, aerodynamics, aerial vehicles, missiles and robots, automatic design and manufacturing, artificial intelligence, unmanned aerial vehicles, autonomous robotic vehicles, evolutionary robotics, humanoids, hardware architecture, industrial robotics, intelligent control systems, microsensors and actuators, multi-robots systems, neural decoding algorithms, neural networks for mobile robots, space robotics, control theory and applications, model predictive control, variable structure control, and decentralized control.