

3D CNN for Human Action Recognition

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5G Channel Characterization at Millimeter-Wave for Baghdad City: An NYUSIM-based Approach

A

A CAD - System engineering interoperability by Enriching CAD database with functional information

A Compact 20GHz Dynamic Latch Comparator in 65nm CMOS Process

A Comparative Study of BLDC Motor Speed Control Using PI and ANN Regulator

A Comparative study of Graphical tools for the Fault Monitoring using HBG and DBH Formalisms

A Completely Autonomous TEG-Based Node for Thermal Gradient Measurements

A Composite Moving Average Algorithm for Predicting Energy in Solar Powered Wireless Sensor Nodes

A Comprehensive Analysis of Energy Dissipation in LEACH Protocol for Wireless Sensor Networks

A generic model for the simulation of the thermal and energetic behaviour of technical systems

A Green Deformation Sensor Based on Bacterial Cellulose and Bio-Derived Ionic Liquids

A Hybrid fault diagnosis approach for PV generators based on I-V and P-V characteristics analysis

A novel approach for neural controller adapting rate: Application to MIMO nonlinear processes

A Novel Inverse Gaussian Profile for OAM Mode Division Multiplexing Optical Networks

A Novel Leak Detection Approach in Water Distribution Networks

A parallel Architecture of a Genetic Algorithm for EIT Image Reconstruction

A Secure IoT-enabled Sensor Node for Traffic Light Management and Level of Service Computation

A Short Review on Space-based Solar Power Applications for Desert Irrigation

A Top-Down Approach to Ensure the Continuity of the Different Design Levels of Swarm Robots

AC-DC Single Phase Rectifiers for Nanocomposite based Flexible Piezoelectric Energy Harvesters

Adaptive Compensation Technique of quartz crystal parallel parasitic capacitance

An approach for an efficient sharing of IP as a Service in cloud FPGA

An efficient Design of 1:2 Demultiplexer in QCA technology with power dissipation analysis

An efficient Design of three-input XOR gate in QCA technology

An efficient MPC controller for the rehabilitation of an actuated knee joint orthosis

An efficient Real Time Implementation of Motion Estimation in Video Sequences on SOC

An Intelligent Image Processing-based Approach to Optimize Vehicle Headlamp Aiming

An Optimization Technique for Voltage Regulation in Electrical Power Systems

An RFID-Based Monitoring and Localization System for Dementia Patients

An Ultra Wideband Efficient and Linear Power Amplifier for IEEE 802.15.3a applications

Analysis of Embedded Fingerprint Biometric Recognition System Algorithm

Analysis of heat transfer in GAAFET Transistor with linear doping based on single-phase lag model

Assembly defect detection using rivets in aeronautical structures

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Backstepping Controller Design for the Medium and Low Voltage Stages of Smart Transformer

Backstepping Super-Twisting for Robotic Manipulators with Matched and Unmatched Uncertainties

Blind image steganalysis using features extraction and machine learning

Blind MMSE Equalizer for Nonlinear SIMO Systems

Boosting CNN Learning by Ensemble Image Preprocessing Methods for Cervical Cancer Segmentation

Building Structural Health Monitoring: an FBG-based estimation of external vibrations

**C** 35ABCDEFGHIJMNOPRSTUVZ

CAD-MBSE interoperability for the checking of design requirements

Chaos elimination in power system using synergetic control theory

Chaos Embedded Particle Swarm Optimization Technique for Solving Optimal Power Flow Problem

Chaotic Encryption System Based on Pixel Value and Position Transformation for Color Images

CMOS Bio-medical Amplifier based on Tera-Ohm Pseudo-resistor for Bio-detection System

CNN for human exons and introns classification

CNN model applied on SNP protein sequences for intestinal cancer early detection

CNN-NoC: A Dynamic Hardware Architecture Of A CNN Using NoC For Deep Learning

Communication SoC based on 1oo2D architecture for industrial human-robot-collaboration

Comparative Analysis Study of Tunisian and Algerian Grid Codes Relevant to PV Installations

Comparative evaluation of the performance of a capacitive and a non-capacitive microbial fuel cell

Comparative of Swarm Intelligence based Wrappers for sEMG Signals Feature Selection

Comparative study among physical models and artificial intelligence methods for PV power forecasting

Comparative Study of Digital Filters for Smart Glove Functionalized with Nanocomposite Strain Sensor

Comparison of LORETA and CSP for Brain-Computer Interface Applications

Comparison of MPPT methods FLC & PSO for PV system under variable irradiance and temperature

Control of a Stand-Alone Variable Speed Wind Turbine with a Permanent Magnet Synchronous Generator

Control of the Compass-Gait Walker Using an Enhanced Poincaré Map and via LMI-Based Optimization

**D** 35ABCDEFGHIJMNOPRSTUVZ

DC-DC Buck Converter Control Improvement

Deep Batch-normalized eLU AlexNet For Plant Diseases Classification

Deep Learning Algorithm to Predict The Integration Efficiency Of Wind Turbine In Smart Grid

Deep Learning Approach for COVID-19 Detection Based on X-Ray Images

Deep Multi-modal Object Detection for Autonomous Driving

Deep Pre-trained Models for Computer Vision Applications: Traffic sign recognition

Depth Camera and Laser Sensors Plausibility Evaluation for Small Size Obstacle Detection

*Design and evaluation of a low energy Bluetooth sensor node for animal monitoring*

*Design and Implementation of a Safe Medical Box to Maintain Insulin Pens in Good Conditions*

*Design of a Wireless Sensor Node based on MSP430FR5969 for Environment Monitoring Applications*

*Design of an IoT-Enabled Microgrid Architecture for a Partial Grid-Connected Mode*

*Design Of Interval Type 2 Fuzzy Adaptive Sliding Mode Control Via Backstepping*

*Design optimization of spiral coils for textile applications by genetic algorithm*

*Diagnosis and Detection of Rotor Bars Faults in Induction Motor Using HT and DWT Techniques*

*Distributed Alternating Direction Method of Multipliers for Linearly Constrained Optimization*

*Distributed Control Method for Heterogeneous Multiagent Systems Subjected to Faults*

*Disturbance Observers for Linear Closed Loop Systems*

*Drivers Fatigue Detection Using EfficientDet In Advanced Driver Assistance Systems*

*DRNNA: Decomposable Reverse Nearest Neighbor Algorithm for Distributed Databases*

*Dry Flexible Electrode Based on MWCNT for LongTerm Health Monitoring*

*Dynamic Modeling, Simulation and Study of a Sulfur Burning Unit in an Industrial Sulfuric Acid Plant*

## **E**

**3 5 A B C D E F G H I M N O P R S T U V Z**

*Effect of Optimal Energy Management Strategy on Parallel Hybrid Electric Vehicle Performances*

*Electrical Power Flow Improvement by Reducing Fault Current using FACTS Devices*

*Electrochemical immunosensing of Helicobacter Pylori Bacteria In-Vitro: Review*

*Elliptic Curve Parameters Optimization For Lightweight Cryptography In Mobile-Ad-Hoc Networks*

*Emirati-Accented Emotion Verification based on HMM3s, HMM2s, and HMM1s*

*Energy Management in the Power Chain of Electric Cars with Electromagnetic Switches*

*Energy management system for a Stand-alone Wind/ Diesel/ BESS/ Fuel-cell Using Dynamic Programming*

*Enhanced Harmonic Elimination Using Genetic Algorithm Optimization in Multilevel Inverters*

*Enhanced heart rate estimation based on face features*

*Enhanced piezoelectric performance of lead free BCZT based flexible nanogenerator*

*Enhanced RF for Fault Detection and Diagnosis of Uncertain PV systems*

*Enhanced Ultraviolet sensing performance of Au/TiO<sub>2</sub> nanoparticles*

*Enhancement of Reliability and Precision of Navigation by Odometry*

*Enhancing security using digital signature in an efficient Network Coding-enabled WSN*

*Enhancing Users Collaboration By Vocal Annotations*

*Exploitation of Chemo-Electrical Transduction Properties of Soil in Function of Radiation Doses*

*Extended range of a MEMS electrostatic actuator using an adjustable linear controller*

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**3 5 A B C D E F G H I M N O P R S T U V Z**

*Faults Classification in Grid-Connected Photovoltaic Systems*

*Finite-time adaptive trajectory tracking control based on sliding mode for Wheeled Mobile Robot*

*Flexible Control Strategies with Current Limitation of vSi Under Unbalanced Grid Voltage Sags*

*From PD to Fractional Order PD controller used for gait rehabilitation*

*Functioning of the Half-Cells Photovoltaic Module in Hybrid EV Under Partial Shading*

*Further Analysis of the Passive Walking Gaits of the Compass Biped Robot: Bifurcations and Chaos*

**G** 35ABCDEFGHIJKLMNQRSTUWVZ

*Glioma segmentation based on CNN*

*Graphene-based liquid gated field-effect transistor for label-free detection of DNA hybridization*

*Guaranteed Cost Sliding Mode Control For Discrete Uncertain T-S Fuzzy Systems With Time Delays*

**H** 35ABCDEFGHIJKLMNQRSTUWVZ

*Hand Gesture Recognition Based on Force Myography Measurements Using KNN Classifier*

*Hardware Implementation of Tanh Exponential Activation Function using FPGA*

*Harmonic Impacts on the Electrical Distribution Network by the Broad Usage of LED Lamps*

*Highly-Flexible Piezoelectric Nanogenerator based on BZT/PVDF-HFP for Mechanical Energy Harvesting*

*Hybrid Energy Storage Review for Renewable Energy System Technologies and Applications*

*Hybrid Learning Method for Image Segmentation*

*Hysteresis Current Control & MPPT approach Applied to a Grid - Connected Solar PV System*

**I** 35ABCDEFGHIJKLMNQRSTUWVZ

*Identification and Control of an Industrial Thickener Using Historical Data*

*Identification of Communication Cables Based on S-Parameters and K-Nearest Neighbors Algorithm*

*Identification of Donald Trump's Tweets Using Machine Learning*

*Impact of Silent Periods on Pseudonym Schemes*

*Imperceptibility Analysis for Watermarking Technique Based on Image Block Division Scheme*

*Implementation of a Second Order Sliding Mode Speed Controller for an Induction Motor Using an FPGA*

*Improved Classic Direct Torque Control Based on Doubly Fed Induction Generator Use Neural Network*

*Improved Incremental conductance algorithm for MPPT in Photovoltaic System*

*Improvement of Searching Data in MongoDB with the Usage of Oracle Database*

*In-Depth Performance Evaluation of Network Slicing Strategies in Large Scale Industry 4.0*

*Incorporation of a Viscosity-based Model in Nonlinear Finite Element Analysis for SPM*

*Indoor sign Detection System for Indoor Assistance Navigation*

*Integration Impact of DRE on the Voltage Stability of Power Network*

*Intelligent multiple Vehicule Detection and Tracking Using Deep-learning and Machine Learning*

*Intelligent Robot Powered by Solar Energy*

*Interactive PV-Shunt Active Power Filter based on Impedance Source Inverter Controlled by SRF-MVF*

*Inverse Kinematic solution of u-Rob4 an hybrid exoskeleton for stroke rehabilitation*

*Inverse Kinematics of a Team of 5-DOF Holonomic Mobile Cooperative Rover Manipulators*

*Inverted Pendulum System Disturbance and Uncertainty Effects Reduction*

*IoT Based Remote Laboratory for Solar Energy Experiments: Design and Implementation*

*IoT for health and usage monitoring systems: Mitigating consequences in Manufacturing under CBM*

**M** 35ABCDEFGHIJKLMNQRSTUWVZ

*Marine Current Energy Conversion System driven DFIG connected to DC-bus*

*Maximizing the Domain of attraction of nonlinear systems: A PSO optimization approach*

*Maximum Power Point Tracking Controller for Pumping Photovoltaic System Based on Induction Motor*

*Mechatronics in a New Context: a Structuring Conceptual Framework Proposal for MBSE*

*Medical Imaging-based Techniques for Alzheimer's Disease Detection: A Survey*

*Mesh Network-Based Device-to-Device Negotiation System for Energy Management*

*Methodology for the design of parallel robots using performance atlases*

*MIC: Multi-view Image Classifier using Generative Adversarial Networks for Missing Data Imputation*

*MicroRNA expression classification for human disease prediction*

*MISO fractional systems identification with fractional models in the EIV context*

*Model Predictive Control of grid-connected Hybrid Renewable Energy System*

*Modeling and Analysis of the Dynamic Walking of a Biped Robot with Knees*

*Modeling of a Metamaterial Biosensor Based on Split Ring Resonators for Cancer Cells Detection*

*Modeling of a wind farm associated with back-to-back two-level converters*

*Modelling and Simulation of PV Pump Using MPPT Controller*

*Modified Fast Terminal Super-Twisting Control for Uncertain Robot Manipulators*

*Moving object detection system based on the modified temporal difference and OTSU algorithm*

*MPP Tracking based on classical P&O control and FLC-Hill Climbing technique for a PV Generator*

*MPPT techniques of the solar PV under partial shading*

*MR Brain Image Segmentation Optimized by Using Ant Colony Algorithm*

*Multi-band Analysis for Enhancing Multiple Combined Fault Diagnosis*

**N** 35ABCDEFGHIJKLMNQRSTUWVZ

*Neighbor-Assisted Localization for Massive MIMO 5G Systems*

*New Adaptive Sliding Mode for Unperturbed Forearm and Wrist Rehabilitation Robot*

*New Method for Detection of Ventricular Suction in an implantable Pump Using Recursive DFT Algorithm*

*Noise and temperature compensation for Graphene-ISFET micro-sensor*

*Non-Fourier heat conduction effect in nanoscale FinFET and GAAFET Transistor*

*Non-Invasive Microwave CSRR-Based Sensor for Diabetic Foot Ulcers Detection*

*Numerical validation of experimental results for the dynamic behavior of sandwich structures*

**O** 35ABCDEFGHIJKLMNQRSTUWVZ

*On Modeling Greenhouse Air-Temperature: an Experimental validation*

*On the accuracy of Beacon-based Indoor Positioning System in the iOS platform*

*Optical and electrical analysis for high power conversion efficiency hybrid perovskite solar cells*

*Outcomes-Based Teaching of Electrical Engineering Courses at Qassim University during the Pandemic*

*Output voltage control of synchronous generator using Nelder -Mead algorithm based PI controller*

## **P** 35ABCDEFGHIJMNOPRSTUVZ

*P/Q Control of Grid-Connected Inverters*

*Performance Analysis of Low Noise Amplifier Based on BJT for Power Aware Wake-Up Receiver Nodes*

*Performance trade-offs of hybrid cryptosystem for medical images encryption - decryption*

*PGTLP: A Dataset for Tunisian License Plate Detection and Recognition*

*Photovoltaic investigation of CPDT based small molecule for BHJ OSC devices*

*Pitfalls of spikes filtering for detecting High Frequency Oscillations (HFOs)*

*PPDC Design-Based  $H^\infty$  Non-Fragile Controller for a Class of Bilinear Systems*

*Prediction of Financial Statement Fraud using Machine Learning Techniques in UAE*

*Principal Component Analysis for Fault detection and isolation in a DC-DC buck converter*

*PYNQ FPGA Hardware implementation of LeNet-5-Based Traffic Sign Recognition Application*

## **R** 35ABCDEFGHIJMNOPRSTUVZ

*Random forest-based nonlinear improved feature extraction and selection for fault classification*

*Rate-Distortion Performance Comparison: VVC vs. HEVC*

*Real-time intelligent monitoring system based on IoT*

*Reduced GPR based RF Approach for Fault Diagnosis of Wind Energy Conversion Systems*

*Reducing effect of neighboring HV overhead lines on interference at single-pole automatic reclosing*

*Regulated Step-Up Power Supplies: Design and Simulation*

*Relevant Biophysical Parameters Along Corticospinal Tract in Patients with Stroke*

*Review on Solid State Transformer Based on Microgrids Architectures*

*RISE Based Computed Torque Control for trajectory tracking of parallel robot*

*Robust Active Fault Tolerant Control for Five-Phase PMSM against Speed Sensor Failures*

*Robust Polynomial Observers For Positive Polynomial Fuzzy Systems*

*Robust tracking MPC for uncertain system stabilisation using polyhedral sets*

*Robustness of Smart Transformer Based-on Sliding Mode Controller under Grid Perturbations*

## **S** 35ABCDEFGHIJMNOPRSTUVZ

*Safe-System-on-Chip for Functional Safety*

*Sag Monitoring of Overhead Power Lines based on Image Processing*

*SAR Speckle Filtering Using Hybrid NonLocal Sigma Filter*

*Schizophrenia Diagnosis from fMRI data Based on Deep Curvelet Transform*

*Sensor Data Augmentation Strategy for Load Forecasting in Smart Grid Context*

*Sensorless Control of PMSM using Fractional Order SMC and Extended Kalman Observer*

*Sensorless Control of PMSM using SMC and Sensor Fault Detection Observer*

*Sensors faults diagnosis of a wind system*

*Simulation of Wireless Sensor Nodes based on Wake-Up Receivers*

*Six Sensors Bracelet for Force Myography based American Sign Language Recognition*

*Sliding Mode Control of an Inductive Power Transmission System with Maximum Efficiency*

*Slim MobileNet: An Enhanced Deep Convolutional Neural Network*

*SoC approach for low cost and low power consumption based on ARM Cortex M3 according to ISO 26262*

*Solar Irradiance measuring using PV module and PIC microcontroller based Electronic assembly*

*Speaker Identification for Disguised Voices Based on Modified SVM Classifier*

*Speech encryption based on synchronisation of chaotic Takagi-Sugeno systems using PI observer*

*Stability study and robustness analysis of an exoskeleton- upper limb system*

*Study of spectral response of Transformer Oil under Low Electrical Discharge and Thermal Stress*

*Study of the sensitivity of an inSAR interferogram encrypted by the AES-128 algorithm*

*Survey on Clustering in VANET Networks*

**T** 35ABCDEFGHIJKLMN**OPRSTUVZ**

*The Challenges in a Case of Protecting a Series Compensated Transmission Line*

*The impact of electrodes on reducing the effect of anisotropy in biological tissues*

*Three-Level NPC shunt active filter powered by a hybrid fuel-cell/battery dc bus voltage*

*Tonic-Myoclonic Epileptic Seizure Classification based on Surface Electromyography*

*Torque Ripple Minimization Approach of a 3-phase Switched Reluctance Motor*

*Tracking of trajectory and fault estimation of MIABOT robot using an artificial neural network*

*Traction Mode of an Electric Vehicle based on a Delta Inverter feeding a Split Stator Windings PMSM*

*Trajectory Tracking of a 2-DOF Helicopter System Using Canonical Normal Form*

*Trapping/detrapping induced negative differential resistance in Cu/Ni:ZnO/InGa Schottky diode*

*Tuning the Performance of Flexible Lead-Free Zn-BCZT/PVDF-HFP Piezoelectric Nanogenerator*

**U** 35ABCDEFGHIJKLMN**OPRSTUVZ**

*Uncertain Dynamic Process Monitoring Using Moving Window Interval PCA*

*Upcycling Emperor Fish Scales For Biocompatible Piezoelectric Energy Harvesting*

*Urban district modelling simulation-based analysis: under which scenarios can we achieve a PED?*

*Using Multiple Adaptive Neuro-Fuzzy Inference System to Solve Inverse Kinematics of Scara Robot*

**V** 35ABCDEFGHIJKLMN**OPRSTUVZ**

*V2V Clusters Life Time Enhancement based on Multiparallel Processing Algorithm*

*Vehicle Detection System for Smart Crosswalks Using Sensors and Machine Learning Techniques*

**Z** 35ABCDEFGHIJKLMN**OPRSTUVZ**

*Z-Pooling*