

## *Keywords*

| Keyword                                 | Title  |
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| <b>14-nm</b>                            | A Performance Comparative at Low Temperatures of Two FET Technologies: 65 nm and 14 nm   |
| <b>2d/3d imaging</b>                    | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of- Flight for drone applications                           |
| <b>65-nm</b>                            | A Performance Comparative at Low Temperatures of Two FET Technologies: 65 nm and 14 nm   |
| <b>Acoustic pressure</b>                | Feasibility of Producing Acoustic Frozen Waves with Limited Number of Rings  |
| <b>Active control vibration</b>         | Active Vibration Control for Building Structures based on $H^\infty$ Synthesis Problem   |
| <b>Actuators</b>                        | Fault Diagnosis for a Three-Wheel Omidirectional Vehicle: A Geometric Approach   |
| <b>Adaptive control</b>                 | Velocity trajectory tracking control: an Adaptive Ohnishi's Disturbance Observer approach  |
| <b>Aerodynamic study</b>                | Aerodynamic Analysis for the Mathematical Model of a Dual-System UAV   |
| <b>Aerodynamical effects</b>            | Quadrotor novel model for trajectory tracking using neural sliding modes in discrete-time  |
| <b>Aerospace</b>                        | Sliding Mode Control of a Quadrotor with Suspended Payload: a Differential Flatness Approach   |
| <b>Aircraft control.</b>                | Sliding Mode Control of a Quadrotor with Suspended Payload: a Differential Flatness Approach   |
| <b>Aircraft trajectory</b>              | Partial-State Feedback Control and Trajectory Specification for a Propeller-Driven Fixed-wing Aircraft                                 |
| <b>Aircraft-Propeller dynamic model</b> | Partial-State Feedback Control and Trajectory Specification for a Propeller-Driven Fixed-wing Aircraft                                 |
| <b>Alumina</b>                          | Synthesis and characterization of zinc oxide nanowires on aluminium oxide substrate  |
| <b>Aluminum-doped zinc oxide(AZO)</b>   | Properties Of Ultra Thin Radio frequency Sputtered Aluminum Doped Zinc Oxide Thin Films For Solar Cell Applications                    |
| <b>Analog</b>                           | Reduced low-voltage electromyographic signal acquisition system using subthreshold technique   |
| <b>Analog front-end</b>                 | A Gm-C Notch Filter Implemented with $G_m$ over $I_D$ Technique for Biosignal Acquisition Systems                                      |
| <b>Analog integrated circuits</b>       | Reduced Capacitance Multiplier in Impedance-Mode with Large Scaling Factor and High Accuracy   |
| <b>Analognotch Filter</b>               | A Gm-C Notch Filter Implemented with $G_m$ over $I_D$ Technique for Biosignal Acquisition Systems                                      |
| <b>Anodized</b>                         | Synthesis and characterization of zinc oxide nanowires on aluminium oxide substrate  |
| <b>Appearance model</b>                 | Analysis of CNN Models to develop a New Appearance Model for Multiple-Object-Tracking  |
| <b>Arsenic removal</b>                  | Characterization of $BiVO_4$ modified $TiO_2$ and its application in the water treatment   |
| <b>Artificial bee colony</b>            | Proposal for training a Cellular Neural Network using a Hybrid Artificial Bee Colony and Nelder-Mead Algorithms                        |
| <b>Artificial bee colony algorithm</b>  | A Clustering Method Based on the Artificial Bee Colony Algorithm for Gas Sensing   |
| <b>Artificial neural network</b>        | Artificial Neural Network for Classification of Possible Cardiovascular Risk Using Indexes of Heart Rate Variability                   |
| <b>Artificial neural networks</b>       | Clustering of Data that Quantify the Degree of Impairment of the Upper Limb in Patients with Alterations of the Central Nervous System |
| <b>Attractive ellipsoid</b>             | An Implicit Class of Robust Control System Characterized by a Convex-Type Matrix Constraints   |

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| <b>Automated diagnosis</b>                       | Typical Absence Epilepsy Identification on EEG   |
| <b>Autonomous vehicle</b>                        | Lane Line Detection Computer Vision System Applied to a Scale Autonomos Car: AutoModelCar                            |
| <b>Autonomy</b>                                  | Self-driving through a Time-distributed Convolutional Recurrent Neural Network                                       |
| <b>Bacterial foraging</b>                        | BFO-GA Interval Type-2 Fuzzy PD Control applied to a Magnetic Levitation System.                                     |
| <b>Balanced reduction</b>                        | Reduced Order Finite Element Model Techniques for Setpoint Control   |
| <b>Ball milling</b>                              | Changes of crystallinity index and crystallite size in cotton cellulose nanoparticles obtained by ball milling       |
| <b>Biofeedback</b>                               | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals                 |
| <b>Bio-potential acquisition</b>                 | A Gm-C Notch Filter Implemented with $G_m$ over $I_D$ Technique for Biosignal Acquisition Systems                    |
| <b>Biosignals</b>                                | Reduced low-voltage electromyographic signal acquisition system using subthreshold technique                         |
| <b>Biquadratic Gm-C filter</b>                   | A Gm-C Notch Filter Implemented with $G_m$ over $I_D$ Technique for Biosignal Acquisition Systems                    |
| <b>Bi-rads lexicon</b>                           | Predicting the BI-RADS Lexicon for Mammographic Masses Using Hybrid Neural Models                                    |
| <b>Bismuth vanadate</b>                          | GO/BiVO <sub>4</sub> Nanocomposites for Escherichia coli K12 Photocatalytic Inactivation                             |
| <b>Bivo<sub>4</sub> modified tio<sub>2</sub></b> | Characterization of BiVO <sub>4</sub> modified TiO <sub>2</sub> and its application in the water treatment           |
| <b>Block control</b>                             | Quadrotor novel model for trajectory tracking using neural sliding modes in discrete-time                            |
| <b>Breast cancer</b>                             | Predicting the BI-RADS Lexicon for Mammographic Masses Using Hybrid Neural Models                                    |
| <b>Buffer layer</b>                              | Large Area (10 x10 cm <sup>2</sup> ) Production of CdS Buffer Layer for Solar Cells by Chemical Bath Method          |
| <b>Building structure</b>                        | Active Vibration Control for Building Structures based on $H_\infty$ Synthesis Problem                               |
| <b>Capacitor multiplier</b>                      | Reduced Capacitance Multiplier in Impedance-Mode with Large Scaling Factor and High Accuracy                         |
| <b>Capsnet</b>                                   | Deep Learning Networks for Vowel Speech Imagery  |
| <b>Cbd</b>                                       | Large Area (10 x10 cm <sup>2</sup> ) Production of CdS Buffer Layer for Solar Cells by Chemical Bath Method          |
| <b>Cellular neural network</b>                   | Proposal for training a Cellular Neural Network using a Hybrid Artificial Bee Colony and Nelder-Mead Algorithms      |
| <b>Cellulose</b>                                 | Changes of crystallinity index and crystallite size in cotton cellulose nanoparticles obtained by ball milling       |
| <b>Characterizations</b>                         | Characterization of BiVO <sub>4</sub> modified TiO <sub>2</sub> and its application in the water treatment           |
| <b>Chemical bath</b>                             | Study of ZnS <sub>x</sub> O <sub>1-x</sub> Prepared by Thermal Oxidation of ZnS Films Deposited from a Chemical Bath |
| <b>Civil structures.</b>                         | Model reference Neural Network-based methodology for vibration control in a five-story steel structure               |
| <b>Classification</b>                            | Comparison of EMG signal classification algorithms for the control of an upper limb prosthesis prototype             |
| <b>Cloud collaboration</b>                       | Cloud based Co-authoring platform for visually impaired people   |
| <b>Cmos</b>                                      | Reduced low-voltage electromyographic signal acquisition system using subthreshold technique                         |
| <b>Cmos</b>                                      | A Gm-C Notch Filter Implemented with $G_m$ over $I_D$ Technique for Biosignal Acquisition Systems                    |
| <b>Cmos</b>                                      | Phase Noise Analysis of a Modified Cross Coupled Oscillator  |
| <b>CMOS technology</b>                           | Proposal for a rotary micromotor structure based on CMOS-MEMS technology   |
| <b>Cmos-mems</b>                                 | On Balanced Tradeoffs between Stiffness and Design Area in CMOS-MEMS Accelerometer Springs                           |
| <b>Cognitive radio</b>                           | On the Leverage of Superimposed Training for Energy-Efficient Spectrum Sensing in Cognitive Radio                    |

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| <b>Collaborative authoring</b>                               | Cloud based Co-authoring platform for visually impaired people  |
| <b>Colored measurement noise</b>                             | Visual Object Tracking with Colored Measurement Noise using Kalman and UFIR Filters   |
| <b>Complex networks</b>                                      | Particles Swarm Optimization for Minimal Energy Consumption in Complex Networks Node Search   |
| <b>Composite quadratic lyapunov functions</b>                | An Implicit Class of Robust Control System Characterized by a Convex-Type Matrix Constraints  |
| <b>Compressed sensing</b>                                    | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of- Flight for drone applications                          |
| <b>Computed-torque techniques</b>                            | Improving Robustness of Computed-Torque Schemes via LMI-Based Nonlinear Feedback  |
| <b>Computed-torque techniques</b>                            | Trajectory Tracking of Parallel Robots: A Relaxed Differential-Algebraic-Equation Approach  |
| <b>Computer vision</b>                                       | Efficient Joined Pyramid Network Applied to Semantic Segmentation for GPU Embedded System   |
| <b>Content-based retrieval</b>                               | Horizontal Fragmentation of Multimedia Databases to Optimize Content-based Queries: A Review  |
| <b>Continuous</b>  | Reduced low-voltage electromyographic signal acquisition system using subthreshold technique  |
| <b>Continuous sliding mode</b>                               | Robust Output Trajectory Tracking for Uncertain Mechanical Systems: a Continuous Integral Sliding Mode Approach                       |
| <b>Control</b>   | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals                                  |
| <b>Control</b>   | Umikpali Exoskeleton :Saddle-assistive device for Sit-to-Stand transfer. Mechanical Design and Simulation.                            |
| <b>Controlled sources</b>                                    | Generalized Admittance Matrix Model of Transformers   |
| <b>Convex model</b>  | Trajectory Tracking of Parallel Robots: A Relaxed Differential-Algebraic-Equation Approach  |
| <b>Convex modelling</b>                                      | Improving Robustness of Computed-Torque Schemes via LMI-Based Nonlinear Feedback  |
| <b>Convex-type Matrix Constraints</b>                        | An Implicit Class of Robust Control System Characterized by a Convex-Type Matrix Constraints  |
| <b>Convolutional model</b>                                   | Self-driving through a Time-distributed Convolutional Recurrent Neural Network  |
| <b>Convolutional neural network</b>                          | Deep Learning Networks for Vowel Speech Imagery   |
| <b>Convolutional neural networks</b>                         | Analysis of CNN Models to develop a New Appearance Model for Multiple-Object-Tracking   |
| <b>Copper indium gallium diselenide thin film solar cell</b> | Growth of $\text{In}_2\text{Se}_3$ Thin Films Prepared by the Pneumatic Spray Pyrolysis Method for Thin Film Solar Cells Applications |
| <b>Cotton</b>  | Changes of crystallinity index and crystallite size in cotton cellulose nanoparticles obtained by ball milling                        |
| <b>Cpw</b>   | A fractal octagonal-shaped transparent antenna for C-band applications  |
| <b>Cryo-CMOS</b>   | A Performance Comparative at Low Temperatures of Two FET Technologies: 65 nm and 14 nm  |
| <b>Cryogenic electronics</b>                                 | A Performance Comparative at Low Temperatures of Two FET Technologies: 65 nm and 14 nm  |
| <b>Crystallinity</b>   | Changes of crystallinity index and crystallite size in cotton cellulose nanoparticles obtained by ball milling                        |
| <b>Crystallite size</b>                                      | Changes of crystallinity index and crystallite size in cotton cellulose nanoparticles obtained by ball milling                        |
| <b>Cuda</b>  | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of- Flight for drone applications                          |
| <b>Cwt</b>   | Experience of Use of the BiTalino Kit for Biomedical Signals Recording during Ergometric Test   |

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| <b>Dae</b>                              | An Implicit Class of Robust Control System Characterized by a Convex-Type Matrix Constraints   |
| <b>Data classification</b>              | Clustering of Data that Quantify the Degree of Impairment of the Upper Limb in Patients with Alterations of the Central Nervous System |
| <b>Deep learning</b>                    | Efficient Joined Pyramid Network Applied to Semantic Segmentation for GPU Embedded System  |
| <b>Deep learning</b>                    | Deep Learning for Image to Sound Synthesis   |
| <b>Diabetic foot</b>                    | Detection of sore-risk regions on the foot sole with digital image processing and passive thermography in diabetic patients            |
| <b>Differential algebraic equations</b> | Trajectory Tracking of Parallel Robots: A Relaxed Differential-Algebraic-Equation Approach   |
| <b>Direct lyapunov method</b>           | Improving Robustness of Computed-Torque Schemes via LMI-Based Nonlinear Feedback   |
| <b>Discrete space vector modulation</b> | Model Predictive Torque Control of an Induction Motor with Discrete Space Vector Modulation  |
| <b>Discrete-time sliding modes</b>      | Quadrotor novel model for trajectory tracking using neural sliding modes in discrete-time  |
| <b>Discrete-time systems</b>            | Discretization of the Robust Exact Filtering Differentiator Based on the Matching Approach   |
| <b>Disturbance observer</b>             | Velocity trajectory tracking control: an Adaptive Ohnishi's Disturbance Observer approach  |
| <b>Dual-system uav</b>                  | Aerodynamic Analysis for the Mathematical Model of a Dual-System UAV   |
| <b>Duplicated transitions labels.</b>   | Automated Modelling of Deadlock-free Petri nets using Duplicated Transition Labels   |
| <b>EABC algorithm</b>                   | Spiking Neural Network Architecture Comparison by Solving the Non-linear XOR Problem   |
| <b>Ecg</b>                              | Experience of Use of the BiTalino Kit for Biomedical Signals Recording during Ergometric Test  |
| <b>Edge detection</b>                   | Proposal for training a Cellular Neural Network using a Hybrid Artificial Bee Colony and Nelder-Mead Algorithms                        |
| <b>Eeg</b>                              | Deep Learning Networks for Vowel Speech Imagery  |
| <b>EEG signal processing</b>            | Typical Absence Epilepsy Identification on EEG   |
| <b>Effect of organic matter</b>         | Characterization of BiVO <sub>4</sub> modified TiO <sub>2</sub> and its application in the water treatment                             |
| <b>Elastic constant</b>                 | Mechanical Stability Study of Bulk FAXM <sub>3</sub> Perovskites   |
| <b>Electric field</b>                   | A method to model the volume charge density in a Multiple-Input Floating-Gate MOS transistor   |
| <b>Electrical characterization</b>      | A Performance Comparative at Low Temperatures of Two FET Technologies: 65 nm and 14 nm   |
| <b>Electrodeposition</b>                | Synthesis and characterization of zinc oxide nanowires on aluminium oxide substrate  |
| <b>Embedded system</b>                  | Development and Implementation of a Relay Switch Based on WiFi Technology  |
| <b>Embedded system</b>                  | A Remote Immobilization System with GSM and GPS Technologies for Cargo Trailers  |
| <b>Emergency response</b>               | Leveraging Emergency Response System Using the Internet of Things. A Preliminary Approach  |
| <b>Emg</b>                              | Reduced low-voltage electromyographic signal acquisition system using subthreshold technique   |
| <b>Emg</b>                              | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals                                   |
| <b>Emg</b>                              | Comparison of EMG signal classification algorithms for the control of an upper limb prosthesis prototype                               |
| <b>Emoo</b>                             | On Balanced Tradeoffs between Stiffness and Design Area in CMOS-MEMS Accelerometer Springs   |
| <b>Energy consumption</b>               | Particles Swarm Optimization for Minimal Energy Consumption in Complex Networks Node Search  |
| <b>Energy-efficiency</b>                | On the Leverage of Superimposed Training for Energy-Efficient Spectrum Sensing in Cognitive Radio                                      |
| <b>Escherichia coli K12</b>             | GO/BiVO <sub>4</sub> Nanocomposites for Escherichia coli K12 Photocatalytic Inactivation   |

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| <b>Exoskeleton</b>                       | Design and Development of an Elbow Exoskeleton for Home Therapy.   |
| <b>Exoskeleton</b>                       | Umikpali Exoskeleton :Saddle-assistive device for Sit-to-Stand transfer. Mechanical Design and Simulation.                       |
| <b>Fast terminal</b>                     | Umikpali Exoskeleton :Saddle-assistive device for Sit-to-Stand transfer. Mechanical Design and Simulation.                       |
| <b>Fault diagnosis</b>                   | Fault Diagnosis for a Three-Wheel Omidirectional Vehicle: A Geometric Approach   |
| <b>Fgmos</b>                             | Design of position sensor of a linear micromotor based on CMOS-MEMS technology   |
| <b>Finfet</b>                            | A Performance Comparative at Low Temperatures of Two FET Technologies: 65 nm and 14 nm   |
| <b>Finite element method</b>             | Reduced Order Finite Element Model Techniques for Setpoint Control   |
| <b>Fixed-time convergence</b>            | Observer-based leader-follower consensus tracking with fixed-time convergence  |
| <b>Fixed-time observer</b>               | Observer-based leader-follower consensus tracking with fixed-time convergence  |
| <b>Fixed-wing aircraft control</b>       | Partial-State Feedback Control and Trajectory Specification for a Propeller-Driven Fixed-wing Aircraft                           |
| <b>Fixed-wing vtol</b>                   | Aerodynamic Analysis for the Mathematical Model of a Dual-System UAV   |
| <b>Formamidinium</b>                     | Mechanical Stability Study of Bulk FAXM <sub>3</sub> Perovskites   |
| <b>Formation control</b>                 | Multi-robot manipulation using formation control and human-in-the-loop scheme  |
| <b>Fractional calculus</b>               | Robust formation of mobile robots with synchronization using fractional order sliding modes                                      |
| <b>Framingham risk score</b>             | Artificial Neural Network for Classification of Possible Cardiovascular Risk Using Indexes of Heart Rate Variability             |
| <b>Frozen waves</b>                      | Feasibility of Producing Acoustic Frozen Waves with Limited Number of Rings  |
| <b>Ftir</b>                              | Effect of the thermal treatments on the emission of a-Si <sub>1-x</sub> C <sub>x</sub> :H films                                  |
| <b>Fully convolutional networks</b>      | Efficient Joined Pyramid Network Applied to Semantic Segmentation for GPU Embedded System  |
| <b>Functional electrical stimulation</b> | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals                             |
| <b>Functional task</b>                   | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals                             |
| <b>Gas sensing</b>                       | A Clustering Method Based on the Artificial Bee Colony Algorithm for Gas Sensing   |
| <b>Gauss-newton</b>                      | Performance Comparison of Positioning Algorithms for UAV Navigation Purposes based on Estimated Distances                        |
| <b>Genetic algorithm</b>                 | On Balanced Tradeoffs between Stiffness and Design Area in CMOS-MEMS Accelerometer Springs                                       |
| <b>Genetic algorithms</b>                | BFO-GA Interval Type-2 Fuzzy PD Control applied to a Magnetic Levitation System.   |
| <b>Giant magnetoresistance sensors</b>   | Design and Construction of a Magnetic Signal Detection Block for Magnetic Nanoparticles that Flow Through Straight Microchannels |
| <b>Gm/ID methodology</b>                 | A Gm-C Notch Filter Implemented with G <sub>m</sub> over I <sub>b</sub> Technique for Biosignal Acquisition Systems              |
| <b>Gps</b>                               | A Remote Immobilization System with GSM and GPS Technologies for Cargo Trailers  |
| <b>Gpu</b>                               | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of- Flight for drone applications                     |
| <b>Grakn</b>                             | Characterization of Objects in Indoor Spaces of Human Occupation Using Knowledge Graphs  |
| <b>Graphene oxide</b>                    | GO/BiVO <sub>4</sub> Nanocomposites for Escherichia coli K12 Photocatalytic Inactivation   |
| <b>Grid feeding</b>                      | Experimental Comparison of Control Strategies in a Single-Phase Grid-Feeding Converter for Microgrid Applications                |
| <b>Gsm</b>                               | A Remote Immobilization System with GSM and GPS Technologies for Cargo Trailers  |
| <b>H infinity control</b>                | H <sup>∞</sup> Control of Switched Affine Systems with Single Delay: a Lyapunov-Krasovskii Approach with Practical Applications  |
| <b>H<sup>∞</sup> controller</b>          | Active Vibration Control for Building Structures based on H <sup>∞</sup> Synthesis Problem                                       |

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| <b>Hadamard patterns</b>          | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of- Flight for drone applications                             |
| <b>Hand movement</b>              | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals                                     |
| <b>Heart rate variability</b>     | Artificial Neural Network for Classification of Possible Cardiovascular Risk Using Indexes of Heart Rate Variability                     |
| <b>Hemiplegia</b>                 | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals                                     |
| <b>HF radio links</b>             | Preliminary Study of Space Weather Effects on the HF and VHF communications at Low Latitudes during an Early Stage of the Solar Cycle 25 |
| <b>Homogeneous systems.</b>       | Discretization of the Robust Exact Filtering Differentiator Based on the Matching Approach   |
| <b>Horizontal fragmentation</b>   | Horizontal Fragmentation of Multimedia Databases to Optimize Content-based Queries: A Review   |
| <b>Human computer interaction</b> | Cloud based Co-authoring platform for visually impaired people   |
| <b>Human-in-the-loop</b>          | Multi-robot manipulation using formation control and human-in-the-loop scheme  |
| <b>Hybrid UAV</b>                 | Aerodynamic Analysis for the Mathematical Model of a Dual-System UAV   |
| <b>Image processing</b>           | Proposal for training a Cellular Neural Network using a Hybrid Artificial Bee Colony and Nelder-Mead Algorithms                          |
| <b>Image processing</b>           | Detection of sore-risk regions on the foot sole with digital image processing and passive thermography in diabetic patients              |
| <b>Image to sound</b>             | Deep Learning for Image to Sound Synthesis   |
| <b>Implicit systems</b>           | An Implicit Class of Robust Control System Characterized by a Convex-Type Matrix Constraints   |
| <b>Indium selenide</b>            | Growth of $\text{In}_2\text{Se}_3$ Thin Films Prepared by the Pneumatic Spray Pyrolysis Method for Thin Film Solar Cells Applications    |
| <b>Indoor localization</b>        | Performance Comparison of Positioning Algorithms for UAV Navigation Purposes based on Estimated Distances                                |
| <b>Indoor spaces</b>              | Characterization of Objects in Indoor Spaces of Human Occupation Using Knowledge Graphs  |
| <b>Induction motor</b>            | Model Predictive Torque Control of an Induction Motor with Discrete Space Vector Modulation  |
| <b>Industrial processes</b>       | Removing Omissions and Inconsistencies from the ISA 5.1 Narratives of Industrial Processes   |
| <b>Inertial sensor</b>            | On Balanced Tradeoffs between Stiffness and Design Area in CMOS-MEMS Accelerometer Springs   |
| <b>Ingaas</b>                     | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of- Flight for drone applications                             |
| <b>Instrumentation diagrams</b>   | Removing Omissions and Inconsistencies from the ISA 5.1 Narratives of Industrial Processes   |
| <b>Internet of things</b>         | Leveraging Emergency Response System Using the Internet of Things. A Preliminary Approach  |
| <b>Ionospheric communications</b> | Preliminary Study of Space Weather Effects on the HF and VHF communications at Low Latitudes during an Early Stage of the Solar Cycle 25 |
| <b>lot</b>                        | Development and Implementation of a Relay Switch Based on WiFi Technology  |
| <b>IR medical thermography</b>    | Detection of sore-risk regions on the foot sole with digital image processing and passive thermography in diabetic patients              |
| <b>Ito</b>                        | A fractal octagonal-shaped transparent antenna for C-band applications   |
| <b>Izhikevich neuron model</b>    | Spiking Neural Network Architecture Comparison by Solving the Non-linear XOR Problem   |
| <b>Kalman filter</b>              | Visual Object Tracking with Colored Measurement Noise using Kalman and UFIR Filters  |
| <b>Kerf</b>                       | Feasibility of Producing Acoustic Frozen Waves with Limited Number of Rings  |
| <b>K-means</b>                    | A Clustering Method Based on the Artificial Bee Colony Algorithm for Gas Sensing   |
| <b>Knowledge graphs</b>           | Characterization of Objects in Indoor Spaces of Human Occupation Using Knowledge Graphs  |

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| <b>Lane line detection</b>             | Lane Line Detection Computer Vision System Applied to a Scale Autonomos Car: AutoModelCar  |
| <b>Layers</b>                          | Photoluminescence emission under thermal annealing of Silica and Titania nanospheres arrays                                      |
| <b>Leader-follower consensus</b>       | Observer-based leader-follower consensus tracking with fixed-time convergence  |
| <b>Linear electrostatic micromotor</b> | Design of position sensor of a linear micromotor based on CMOS-MEMS technology   |
| <b>Linear matrix inequality</b>        | Improving Robustness of Computed-Torque Schemes via LMI-Based Nonlinear Feedback   |
| <b>Linear matrix inequality</b>        | Trajectory Tracking of Parallel Robots: A Relaxed Differential-Algebraic-Equation Approach                                       |
| <b>Linear time-varying system</b>      | Robust Output Trajectory Tracking for Uncertain Mechanical Systems: a Continuous Integral Sliding Mode Approach                  |
| <b>Lipo Batteries</b>                  | Charge of LiPo batteries via switched saturated super-twisting algorithm   |
| <b>Localization</b>                    | Self-localization of Sensor Node Using Monte Carlo Method Considering Shadowing  |
| <b>Low-power</b>                       | Reduced low-voltage electromyographic signal acquisition system using subthreshold technique                                     |
| <b>Low-voltage analog circuits</b>     | Reduced Capacitance Multiplier in Impedance-Mode with Large Scaling Factor and High Accuracy                                     |
| <b>Machine learning</b>                | Comparison of EMG signal classification algorithms for the control of an upper limb prosthesis prototype                         |
| <b>Magnetic levitation system</b>      | BFO-GA Interval Type-2 Fuzzy PD Control applied to a Magnetic Levitation System.   |
| <b>Magnetic nanoparticles</b>          | Design and Construction of a Magnetic Signal Detection Block for Magnetic Nanoparticles that Flow Through Straight Microchannels |
| <b>Magnetophoresis</b>                 | Design and Construction of a Magnetic Signal Detection Block for Magnetic Nanoparticles that Flow Through Straight Microchannels |
| <b>Mammography classification</b>      | Predicting the BI-RADS Lexicon for Mammographic Masses Using Hybrid Neural Models  |
| <b>Maximum likelihood</b>              | Performance Comparison of Positioning Algorithms for UAV Navigation Purposes based on Estimated Distances                        |
| <b>Mechanical stability</b>            | Mechanical Stability Study of Bulk FAXM <sub>3</sub> Perovskites   |
| <b>Mechanical system</b>               | Robust Output Trajectory Tracking for Uncertain Mechanical Systems: a Continuous Integral Sliding Mode Approach                  |
| <b>Membrane mathematical model</b>     | Spiking Neural Network Architecture Comparison by Solving the Non-linear XOR Problem   |
| <b>Mems</b>                            | Proposal for a rotary micromotor structure based on CMOS-MEMS technology   |
| <b>Mems</b>                            | Design of position sensor of a linear micromotor based on CMOS-MEMS technology   |
| <b>Mems</b>                            | On Balanced Tradeoffs between Stiffness and Design Area in CMOS-MEMS Accelerometer Springs                                       |
| <b>Metaheuristics</b>                  | Spiking Neural Network Architecture Comparison by Solving the Non-linear XOR Problem   |
| <b>Microfluidics.</b>                  | Design and Construction of a Magnetic Signal Detection Block for Magnetic Nanoparticles that Flow Through Straight Microchannels |
| <b>Micromotor</b>                      | Proposal for a rotary micromotor structure based on CMOS-MEMS technology   |
| <b>Microwave ablation</b>              | Detection of Temperature Contours on the Thermal Distribution Generated by Ablation Micro-coaxial Antennas                       |
| <b>Mifgmos</b>                         | A method to model the volume charge density in a Multiple-Input Floating-Gate MOS transistor                                     |
| <b>Minkowsky fractal</b>               | A fractal octagonal-shaped transparent antenna for C-band applications   |
| <b>Mobile robot (2 0)</b>              | Robust formation of mobile robots with synchronization using fractional order sliding modes                                      |
| <b>Mobile robots</b>                   | Fault Diagnosis for a Three-Wheel Omidirectional Vehicle: A Geometric Approach   |
| <b>Mobile wireless sensor node</b>     | Self-localization of Sensor Node Using Monte Carlo Method Considering Shadowing  |
| <b>Modal reduction</b>                 | Reduced Order Finite Element Model Techniques for Setpoint Control   |

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| <b>Model order reduction</b>        | Reduced Order Finite Element Model Techniques for Setpoint Control   |
| <b>Model reference</b>              | Model reference Neural Network-based methodology for vibration control in a five-story steel structure                 |
| <b>Model repair</b>                 | Automated Modelling of Deadlock-free Petri nets using Duplicated Transition Labels                                     |
| <b>Monomethyl silane</b>            | Photoluminescence properties of thin-film $\text{SiO}_x\text{C}_y$ deposited by O-Cat CVD technique using MMS and TEOS |
| <b>Monte carlo method</b>           | Self-localization of Sensor Node Using Monte Carlo Method Considering Shadowing  |
| <b>Mosfet</b>                       | A Performance Comparative at Low Temperatures of Two FET Technologies: 65 nm and 14 nm                                 |
| <b>MOX sensors</b>                  | A Clustering Method Based on the Artificial Bee Colony Algorithm for Gas Sensing                                       |
| <b>Mqtt</b>                         | Development and Implementation of a Relay Switch Based on WiFi Technology  |
| <b>Multi rotor</b>                  | Aerodynamic Analysis for the Mathematical Model of a Dual-System UAV   |
| <b>Multi-agent systems</b>          | Observer-based leader-follower consensus tracking with fixed-time convergence  |
| <b>Multimedia database</b>          | Horizontal Fragmentation of Multimedia Databases to Optimize Content-based Queries: A Review                           |
| <b>Multiple-object-tracking</b>     | Analysis of CNN Models to develop a New Appearance Model for Multiple-Object-Tracking                                  |
| <b>Multi-robot</b>                  | Multi-robot manipulation using formation control and human-in-the-loop scheme  |
| <b>Myo</b>                          | Comparison of EMG signal classification algorithms for the control of an upper limb prosthesis prototype               |
| <b>Nanoparticles</b>                | Changes of crystallinity index and crystallite size in cotton cellulose nanoparticles obtained by ball milling         |
| <b>Nanospheres</b>                  | Photoluminescence emission under thermal annealing of Silica and Titania nanospheres arrays                            |
| <b>Nanowires</b>                    | Synthesis and characterization of zinc oxide nanowires on aluminium oxide substrate                                    |
| <b>Nelder-Mead method</b>           | Proposal for training a Cellular Neural Network using a Hybrid Artificial Bee Colony and Nelder-Mead Algorithms        |
| <b>Neural architecture</b>          | Spiking Neural Network Architecture Comparison by Solving the Non-linear XOR Problem                                   |
| <b>Neural network</b>               | Model reference Neural Network-based methodology for vibration control in a five-story steel structure                 |
| <b>Neural networks</b>              | Predicting the BI-RADS Lexicon for Mammographic Masses Using Hybrid Neural Models                                      |
| <b>Nodal analysis</b>               | Generalized Admittance Matrix Model of Transformers  |
| <b>Node selection</b>               | Particles Swarm Optimization for Minimal Energy Consumption in Complex Networks Node Search                            |
| <b>Noise remover</b>                | Proposal for training a Cellular Neural Network using a Hybrid Artificial Bee Colony and Nelder-Mead Algorithms        |
| <b>Nonlinear control</b>            | Experimental Comparison of Control Strategies in a Single-Phase Grid-Feeding Converter for Microgrid Applications      |
| <b>Nonlinear systems</b>            | Fault Diagnosis for a Three-Wheel Omidirectional Vehicle: A Geometric Approach   |
| <b>Non-singular</b>                 | Umikpali Exoskeleton :Saddle-assistive device for Sit-to-Stand transfer. Mechanical Design and Simulation.             |
| <b>Nullor</b>                       | Generalized Admittance Matrix Model of Transformers  |
| <b>Objects</b>                      | Characterization of Objects in Indoor Spaces of Human Occupation Using Knowledge Graphs                                |
| <b>Observer</b>                     | Robust Output Trajectory Tracking for Uncertain Mechanical Systems: a Continuous Integral Sliding Mode Approach        |
| <b>O-cat cvd</b>                    | Photoluminescence properties of thin-film $\text{SiO}_x\text{C}_y$ deposited by O-Cat CVD technique using MMS and TEOS |
| <b>Octagonal patch</b>              | A fractal octagonal-shaped transparent antenna for C-band applications   |
| <b>On-line differentiation</b>      | Discretization of the Robust Exact Filtering Differentiator Based on the Matching Approach                             |
| <b>Operational transconductance</b> | A Gm-C Notch Filter Implemented with $G_m$ over $I_D$ Technique for Biosignal Acquisition Systems                      |



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| <b>amplifier</b>                         |  |
| <b>Orthogonal matching pursuit (omp)</b> | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of- Flight for drone applications                                 |
| <b>Oscillator</b>                        | Phase Noise Analysis of a Modified Cross Coupled Oscillator  |
| <b>Oxygen</b>                            | Study of Zn <sub>x</sub> O <sub>1-x</sub> Prepared by Thermal Oxidation of ZnS Films Deposited from a Chemical Bath                          |
| <b>Parallel robots</b>                   | Trajectory Tracking of Parallel Robots: A Relaxed Differential-Algebraic-Equation Approach   |
| <b>Parametrization</b>                   | Feasibility of Producing Acoustic Frozen Waves with Limited Number of Rings  |
| <b>Particle filter</b>                   | Self-localization of Sensor Node Using Monte Carlo Method Considering Shadowing  |
| <b>Passivity based control</b>           | Experimental Comparison of Control Strategies in a Single-Phase Grid-Feeding Converter for Microgrid Applications                            |
| <b>PD control</b>                        | Velocity trajectory tracking control: an Adaptive Ohnishi's Disturbance Observer approach  |
| <b>Pecvd</b>                             | Effect of the thermal treatments on the emission of a-Si <sub>1-x</sub> C <sub>x</sub> :H films  |
| <b>Perovskites</b>                       | Mechanical Stability Study of Bulk FAXM <sub>3</sub> Perovskites   |
| <b>Petri net discovery</b>               | Automated Modelling of Deadlock-free Petri nets using Duplicated Transition Labels   |
| <b>Petri nets</b>                        | Removing Omissions and Inconsistencies from the ISA 5.1 Narratives of Industrial Processes   |
| <b>Phase noise</b>                       | Phase Noise Analysis of a Modified Cross Coupled Oscillator  |
| <b>Photoluminescence</b>                 | Photoluminescence properties of thin-film SiO <sub>x</sub> C <sub>y</sub> deposited by O-Cat CVD technique using MMS and TEOS                |
| <b>Photoluminescence</b>                 | Photoluminescence emission under thermal annealing of Silica and Titania nanospheres arrays  |
| <b>Photoluminescence</b>                 | Effect of the thermal treatments on the emission of a-Si <sub>1-x</sub> C <sub>x</sub> :H films  |
| <b>Photovoltaic systems</b>              | Experimental Comparison of Control Strategies in a Single-Phase Grid-Feeding Converter for Microgrid Applications                            |
| <b>Pinning control</b>                   | Particles Swarm Optimization for Minimal Energy Consumption in Complex Networks Node Search  |
| <b>Pneumatic spray pyrolysis</b>         | Growth of In <sub>2</sub> Se <sub>3</sub> Thin Films Prepared by the Pneumatic Spray Pyrolysis Method for Thin Film Solar Cells Applications |
| <b>Poisson's equation</b>                | A method to model the volume charge density in a Multiple-Input Floating-Gate MOS transistor   |
| <b>Position estimation</b>               | Performance Comparison of Positioning Algorithms for UAV Navigation Purposes based on Estimated Distances                                    |
| <b>Position sensor</b>                   | Design of position sensor of a linear micromotor based on CMOS-MEMS technology   |
| <b>Positioning</b>                       | Self-localization of Sensor Node Using Monte Carlo Method Considering Shadowing  |
| <b>Power converters</b>                  | Charge of LiPo batteries via switched saturated super-twisting algorithm   |
| <b>Power quality</b>                     | Experimental Comparison of Control Strategies in a Single-Phase Grid-Feeding Converter for Microgrid Applications                            |
| <b>Precursor layer</b>                   | Growth of In <sub>2</sub> Se <sub>3</sub> Thin Films Prepared by the Pneumatic Spray Pyrolysis Method for Thin Film Solar Cells Applications |
| <b>Predictive control</b>                | Model Predictive Torque Control of an Induction Motor with Discrete Space Vector Modulation  |
| <b>Pso</b>                               | Particles Swarm Optimization for Minimal Energy Consumption in Complex Networks Node Search  |
| <b>Quadrotor modelling</b>               | Quadrotor novel model for trajectory tracking using neural sliding modes in discrete-time  |
| <b>Quality factor (QF)</b>               | Properties Of Ultra Thin Radio frequency Sputtered Aluminum Doped Zinc Oxide Thin Films For Solar Cell Applications                          |
| <b>Quality of service</b>                | Cloud based Co-authoring platform for visually impaired people   |
| <b>Quasi-newton</b>                      | Performance Comparison of Positioning Algorithms for UAV Navigation Purposes based on Estimated Distances                                    |

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| <b>Radical axis</b>                 | Performance Comparison of Positioning Algorithms for UAV Navigation Purposes based on Estimated Distances                                |
| <b>Radio ham</b>                    | Preliminary Study of Space Weather Effects on the HF and VHF communications at Low Latitudes during an Early Stage of the Solar Cycle 25 |
| <b>Recurrent model</b>              | Self-driving through a Time-distributed Convolutional Recurrent Neural Network   |
| <b>Recurrent neural networks</b>    | Quadrotor novel model for trajectory tracking using neural sliding modes in discrete-time  |
| <b>Rehabilitation</b>               | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals                                     |
| <b>Response time</b>                | Leveraging Emergency Response System Using the Internet of Things. A Preliminary Approach  |
| <b>Rf sputtering</b>                | Properties Of Ultra Thin Radio frequency Sputtered Aluminum Doped Zinc Oxide Thin Films For Solar Cell Applications                      |
| <b>Robust</b>                       | Umikpali Exoskeleton :Saddle-assistive device for Sit-to-Stand transfer. Mechanical Design and Simulation.                               |
| <b>Robust control</b>               | Sliding Mode Control of a Quadrotor with Suspended Payload: a Differential Flatness Approach   |
| <b>Robust control</b>               | An Implicit Class of Robust Control System Characterized by a Convex-Type Matrix Constraints   |
| <b>Rssi</b>                         | Self-localization of Sensor Node Using Monte Carlo Method Considering Shadowing  |
| <b>Rta</b>                          | Effect of the thermal treatments on the emission of a-Si <sub>1-x</sub> C <sub>x</sub> :H films  |
| <b>Second-order systems</b>         | Observer-based leader-follower consensus tracking with fixed-time convergence  |
| <b>Seismic excitation</b>           | Active Vibration Control for Building Structures based on H <sup>∞</sup> Synthesis Problem   |
| <b>Self-driving</b>                 | Self-driving through a Time-distributed Convolutional Recurrent Neural Network   |
| <b>Semantic relationships</b>       | Characterization of Objects in Indoor Spaces of Human Occupation Using Knowledge Graphs  |
| <b>Semantic segmentation</b>        | Efficient Joined Pyramid Network Applied to Semantic Segmentation for GPU Embedded System  |
| <b>Semg</b>                         | Experience of Use of the BiTalino Kit for Biomedical Signals Recording during Ergometric Test  |
| <b>Servo system</b>                 | Velocity trajectory tracking control: an Adaptive Ohnishi's Disturbance Observer approach  |
| <b>Setpoint control</b>             | Reduced Order Finite Element Model Techniques for Setpoint Control   |
| <b>Shadowing</b>                    | Self-localization of Sensor Node Using Monte Carlo Method Considering Shadowing  |
| <b>Sigma-delta modulator</b>        | Charge of LiPo batteries via switched saturated super-twisting algorithm   |
| <b>Silica</b>                       | Photoluminescence emission under thermal annealing of Silica and Titania nanospheres arrays  |
| <b>Single-pixel imaging (SPI)</b>   | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of-Flight for drone applications                              |
| <b>Sioc</b>                         | Photoluminescence properties of thin-film SiO <sub>x</sub> C <sub>y</sub> deposited by O-Cat CVD technique using MMS and TEOS            |
| <b>Sliding mode</b>                 | Robust formation of mobile robots with synchronization using fractional order sliding modes  |
| <b>Sliding mode control</b>         | Sliding Mode Control of a Quadrotor with Suspended Payload: a Differential Flatness Approach   |
| <b>Sliding mode control</b>         | Charge of LiPo batteries via switched saturated super-twisting algorithm   |
| <b>Sliding mode differentiators</b> | Discretization of the Robust Exact Filtering Differentiator Based on the Matching Approach   |
| <b>Sliding modes</b>                | Umikpali Exoskeleton :Saddle-assistive device for Sit-to-Stand transfer. Mechanical Design and Simulation.                               |
| <b>Smart city</b>                   | Leveraging Emergency Response System Using the Internet of Things. A Preliminary Approach  |
| <b>Smoothness of movement</b>       | Clustering of Data that Quantify the Degree of Impairment of the Upper Limb in Patients with Alterations of the Central Nervous System   |
| <b>Solar cell</b>                   | Large Area (10 x10 cm <sup>2</sup> ) Production of CdS Buffer Layer for Solar Cells by Chemical Bath Method                              |

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| <b>Sol-gel synthesis</b>         | Characterization of BiVO <sub>4</sub> modified TiO <sub>2</sub> and its application in the water treatment  |
| <b>Solid state reaction</b>      | Structural characterization of the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>σ</sub> superconductor with phases [ $\sigma=6.87,6.89$ and $6.9$ ] obtained by solid state reaction |
| <b>Sound synthesis</b>           | Deep Learning for Image to Sound Synthesis  |
| <b>Space weather</b>             | Preliminary Study of Space Weather Effects on the HF and VHF communications at Low Latitudes during an Early Stage of the Solar Cycle 25  |
| <b>Spectrum sensing</b>          | On the Leverage of Superimposed Training for Energy-Efficient Spectrum Sensing in Cognitive Radio   |
| <b>Speech imagery</b>            | Deep Learning Networks for Vowel Speech Imagery   |
| <b>Spike-slow wave complex</b>   | Typical Absence Epilepsy Identification on EEG  |
| <b>Spiking neural network</b>    | Spiking Neural Network Architecture Comparison by Solving the Non-linear XOR Problem  |
| <b>Stiffness</b>                 | On Balanced Tradeoffs between Stiffness and Design Area in CMOS-MEMS Accelerometer Springs  |
| <b>Stroke</b>                    | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals  |
| <b>Stroke patient</b>            | Design and Development of an Elbow Exoskeleton for Home Therapy.  |
| <b>Structural patterns</b>       | Automated Modelling of Deadlock-free Petri nets using Duplicated Transition Labels  |
| <b>Subthreshold</b>              | Reduced low-voltage electromyographic signal acquisition system using subthreshold technique  |
| <b>Superconducting materials</b> | Structural characterization of the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>σ</sub> superconductor with phases [ $\sigma=6.87,6.89$ and $6.9$ ] obtained by solid state reaction |
| <b>Superimposed training</b>     | On the Leverage of Superimposed Training for Energy-Efficient Spectrum Sensing in Cognitive Radio   |
| <b>Super-twisting algorithm</b>  | Charge of LiPo batteries via switched saturated super-twisting algorithm  |
| <b>Switched affine systems</b>   | H <sup>∞</sup> Control of Switched Affine Systems with Single Delay: a Lyapunov-Krasovskii Approach with Practical Applications   |
| <b>Switched control</b>          | H <sup>∞</sup> Control of Switched Affine Systems with Single Delay: a Lyapunov-Krasovskii Approach with Practical Applications   |
| <b>Symbolic analysis</b>         | Generalized Admittance Matrix Model of Transformers   |
| <b>Synchronization</b>           | Robust formation of mobile robots with synchronization using fractional order sliding modes   |
| <b>Tachogram</b>                 | Experience of Use of the BiTalino Kit for Biomedical Signals Recording during Ergometric Test   |
| <b>Temperature distribution</b>  | Detection of Temperature Contours on the Thermal Distribution Generated by Ablation Micro-coaxial Antennas  |
| <b>Tetraethyl orthosilicate</b>  | Photoluminescence properties of thin-film SiO <sub>x</sub> C <sub>y</sub> deposited by O-Cat CVD technique using MMS and TEOS   |
| <b>Thermal image processing</b>  | Detection of Temperature Contours on the Thermal Distribution Generated by Ablation Micro-coaxial Antennas  |
| <b>Thermal images</b>            | Detection of Temperature Contours on the Thermal Distribution Generated by Ablation Micro-coaxial Antennas  |
| <b>Thin film</b>                 | Large Area (10 x10 cm <sup>2</sup> ) Production of CdS Buffer Layer for Solar Cells by Chemical Bath Method   |
| <b>Thin films</b>                | Study of ZnS <sub>x</sub> O <sub>1-x</sub> Prepared by Thermal Oxidation of ZnS Films Deposited from a Chemical Bath  |
| <b>Time delay systems</b>        | H <sup>∞</sup> Control of Switched Affine Systems with Single Delay: a Lyapunov-Krasovskii Approach with Practical Applications   |
| <b>Time-distributed</b>          | Self-driving through a Time-distributed Convolutional Recurrent Neural Network  |
| <b>Time-of-flight (TOF)</b>      | Towards a 3D Vision System based on Single-Pixel imaging and indirect Time-of- Flight for drone applications  |
| <b>Titania</b>                   | Photoluminescence emission under thermal annealing of Silica and Titania nanospheres arrays   |
| <b>Torque control</b>            | Model Predictive Torque Control of an Induction Motor with Discrete Space Vector Modulation   |

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| <b>Tracking.</b>                          | Umikpali Exoskeleton :Saddle-assistive device for Sit-to-Stand transfer. Mechanical Design and Simulation.   |
| <b>Traffic lights</b>                     | Leveraging Emergency Response System Using the Internet of Things. A Preliminary Approach  |
| <b>Trajectory linearization control</b>   | Robust Output Trajectory Tracking for Uncertain Mechanical Systems: a Continuous Integral Sliding Mode Approach                                      |
| <b>Trajectory tracking</b>                | Performance Comparison of Positioning Algorithms for UAV Navigation Purposes based on Estimated Distances  |
| <b>Transfer learning</b>                  | Predicting the BI-RADS Lexicon for Mammographic Masses Using Hybrid Neural Models  |
| <b>Transformers</b>                       | Generalized Admittance Matrix Model of Transformers  |
| <b>Transparent antenna</b>                | A fractal octagonal-shaped transparent antenna for C-band applications   |
| <b>Transparent conducting oxide (TCO)</b> | Properties Of Ultra Thin Radio frequency Sputtered Aluminum Doped Zinc Oxide Thin Films For Solar Cell Applications                                  |
| <b>Treadmill</b>                          | Experience of Use of the BiTalino Kit for Biomedical Signals Recording during Ergometric Test  |
| <b>Type-2 fuzzy</b>                       | BFO-GA Interval Type-2 Fuzzy PD Control applied to a Magnetic Levitation System.   |
| <b>Uav</b>                                | Performance Comparison of Positioning Algorithms for UAV Navigation Purposes based on Estimated Distances  |
| <b>Ultra-wideband</b>                     | A fractal octagonal-shaped transparent antenna for C-band applications   |
| <b>Unbiased FIR filter</b>                | Visual Object Tracking with Colored Measurement Noise using Kalman and UFIR Filters  |
| <b>Upper limb</b>                         | A Functional Electrical Stimulation Controller for Contralateral Hand Movements Based on EMG Signals   |
| <b>User oriented design</b>               | Design and Development of an Elbow Exoskeleton for Home Therapy.   |
| <b>VHF/UHF satellite communications</b>   | Preliminary Study of Space Weather Effects on the HF and VHF communications at Low Latitudes during an Early Stage of the Solar Cycle 25             |
| <b>Vibration controller</b>               | Model reference Neural Network-based methodology for vibration control in a five-story steel structure   |
| <b>Vision</b>                             | Lane Line Detection Computer Vision System Applied to a Scale Autonomos Car: AutoModelCar  |
| <b>Visual object tracking</b>             | Visual Object Tracking with Colored Measurement Noise using Kalman and UFIR Filters  |
| <b>Visually impaired</b>                  | Cloud based Co-authoring platform for visually impaired people   |
| <b>Volume charge density</b>              | A method to model the volume charge density in a Multiple-Input Floating-Gate MOS transistor   |
| <b>Wavelet transform</b>                  | Artificial Neural Network for Classification of Possible Cardiovascular Risk Using Indexes of Heart Rate Variability                                 |
| <b>Wifi Technology</b>                    | Development and Implementation of a Relay Switch Based on WiFi Technology  |
| <b>Wireless control</b>                   | A Remote Immobilization System with GSM and GPS Technologies for Cargo Trailers  |
| <b>XOR problem</b>                        | Spiking Neural Network Architecture Comparison by Solving the Non-linear XOR Problem   |
| <b>Ybacuo superconductor</b>              | Structural characterization of the $YBa_2Cu_3O_\sigma$ superconductor with phases [ $\sigma=6.87, 6.89$ and $6.9$ ] obtained by solid state reaction |
| <b>Zinc oxide</b>                         | Synthesis and characterization of zinc oxide nanowires on aluminium oxide substrate  |
| <b>Zinc sulfide</b>                       | Study of $ZnS_xO_{1-x}$ Prepared by Thermal Oxidation of ZnS Films Deposited from a Chemical Bath  |
| <b>Ztc</b>                                | A Performance Comparative at Low Temperatures of Two FET Technologies: 65 nm and 14 nm   |