## HOLY MARY INSTITUTE OF TECHNOLOGY & SCIENCE

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**Details of International / National Journal Papers published by the Faculty**

**A.Y.: 2019 -2020**

**Department of Electrical & Electronics Engineering**

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| **S.**  **No.** | **Name of the Staff Members with Designation** | **Title of the Paper &**  **Page No. (from to )** | **Volume No, Issue No & ISSN/ISBN No** | **Name of the Journal** | **Year and Month of the Journal** | **Scopus Indexed (Yes/ No)** | **Journal type** | | **Paper**  **enclosed Soft & Hard copies (Yes or No)** |
| **Natio nal** | **Internat**  **ional** |
| 1 | M. Saravanan Professor S.Sivaganesan, Professor  A.Sathishkumar Professor | Performance analysis of Very Sparse Matrix Converter fed Three Phase cage Induction Drive usingConventional Space Vector Modulation  Pg.No: 1011-1028(9) | Volume 53,  ISSUE 2 ISSN:  0008-6452 | Caribbean Journal of Science | May- Aug 2019 | Yes | - | Yes | Soft Copy |
| 2 | A. Sathish Kumar, Professor  M. Saravanan Professor  G. Seshadri Professor | Contingency Analysis of Fault and Minimization of Power System Outage Using Fuzzy Controller Pg.No:4111-4115 | ISSN: 2278-  3075, Volume-9 Issue-1 | International Journal of Innovative Technology and Exploring  Engineering | Nov/ 2019 | Yes | - | Yes | Soft Copy |
| 3 | A. Sathish Kumar, Professor  M. Saravanan Professor  G. Seshadri  Professor | Performance Analysis of Very Sparse Matrix Converter Using Indirect Space Vector Modulation Pg.No:4756-4762 | ISSN: 2278-  3075, Volume-9 Issue-1, | International Journal of Innovative Technology and  Exploring Engineering | Nov/ 2019 | Yes | - | Yes | Soft Copy |
| 4 | A. Sathish Kumar | An intelligent Fuzzy-Particle Swarm Optimization Supervisory based  Control of Robot Manipulator | ISSN 1454-8658 | CEAI Journal | Accepted  Oct 2020 | Yes | - | Yes | Yes |
| 5 | A. Sathish Kumar | Robot arm Manipulator feedback error control using Fuzzy-PID | Volume 19, No.33, June 2020 | Journal of Tathapi | June 2020 | No | - | Yes | Yes |
| 6 | A. Sathish Kumar | Error analyzing of inverse kinematics 5DOF Robotic arm manipulation | Volume 19, No.33, June 2020 | Journal of Tathapi | June 2020 | No | - | Yes | Yes |
| 7 | A. Sathish Kumar | Contingency Analysis of Fault in Power System using Soft Computing Technique | Volume 06, No.13, pp. 846-850 | International Journal of Research | December 2019 | No | - | Yes | Yes |
| 8 | A. Sathish Kumar | Computational Intelligent Based Control of Electric Driving System with Bidirectional DC-DC Converter | Volume 07, No.02, February 2020, pp. 339-341 | International Journal of Research | February 2020 | No | - | Yes | Yes |
| 9 | A. Sathish Kumar | Neuro Fuzzy based Interline Dynamic Voltage Restorer for Multiline Power System | Volume 07, No.02, February 2020, pp. 342-345. | International Journal of Research | Feb 2020 | No | - | Yes | Yes |
| 10 | A. Sathish Kumar | Reactive power compensation with change of Current waveform quality for three-phase buck-type dynamic capacitor | Volume 12, No.12, December 2019, pp. 1193-1197 | Journal of Composition Theory | December 2019 | No | - | Yes | Yes |
| **11** | M. Saravanan Professor S.Sivaganesan, Professor | Performance analysis of Switch Inductance Quasi Impedance Source Inverter fed Three Phase cage Induction Drive using PWM Technique for PMSG based Wind  Energy Conversion SystemPg.No: 1535-1548 | Volume 53,  ISSUE 2 ISSN:  0008-6452 | Caribbean Journal of Science | May – Aug 2019 | Yes | - | Yes | Soft Copy |
| 12 | Mr.Aditya Asst.Prof | Study of reduced switch count multilevel inverters with modulation techniques and applications | Vol.11,No.07 ISSN:1943- 023X | Journal of advanced research in dynamical and  control system | Jul 2019 | Yes | - | Yes | Soft Copy |
| 13 | M. Saravanan  Professor | Air Pollution Control Monitoring & Delivery Rate Escalated by Efficient use of Markov Process in Manet Networks: to Measure Quality of Service Parameters | ISSN: 0193-4120 Page No. 8233 - 8241 | Test Engineering and Management | May – June 2020 | Yes | - | Yes | Soft Copy |
| 14 | M. Saravanan  Professor | Experimental Investigation And Mathematical Model Strategy To Control Air Pollution Level In Our Environment By Using Nanotechnology | Vol. 29, No. 7, (2020), pp. 3479-3491 | International Journal of Advanced Science and Technology | May – June 2020 | Yes | - | Yes | Soft Copy |
| 15 | M. Saravanan Professor S.Sivaganesan, Professor  A.Sathishkumar  Professor | Multi-Level Inverter with Simplified Control Strategy for Distributed Energy Resource Integration with Distribution System | Volume 35,  ISSUE 2 ISSN: 1012-3407 | Journal of Technology | April- June 2020 | Yes |  | Yes | Yes |
| 16 | A.Sathishkumar  Professor  M. Saravanan Professor S.Sivaganesan, Professor | Effective Power Utilization Strategy of Fuel Cell System Using FSTP Sepic Inverter | V Volume 35,  ISSUE 3 ISSN: 1012-3407 | Journal of Technology | July-Sep 2020 | Yes |  | Yes | Yes |
| 17 | S.Sivaganesan,  Professor  A.Sathishkumar  Professor  M. Saravanan Professor | Simulation Based Evaluation of PV Brushless Direct Current Motor for Rural Irrigation Requirements | Volume 35,  ISSUE 3 ISSN: 1012-3407 | Journal of Technology | July-Sep 2020 | Yes |  | Yes | Yes |
| 18 | M. Saravanan Professor S.Sivaganesan, Professor  A.Sathishkumar  Professor | An Improved Fuzzy Lattice Connected System | Volume 08,  ISSUE 3 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | July-Sep 2020 | No | **-** | Yes | Yes |
| 19 | A.Sathishkumar  Professor  M. Saravanan Professor S.Sivaganesan, Professor | GSM Centered Water level and Temperature Observing System | Volume 08,  ISSUE 3 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | July-Sep 2020 | No | **-** | Yes | Yes |
| 20 | S.Sivaganesan,  Professor  A.Sathishkumar  Professor  M. Saravanan Professor | Review of Booth Algorithm for Strategy of Multiplier | Volume 08,  ISSUE 3 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | July-Sep 2020 | No | **-** | Yes | Yes |
| 21 | M. Saravanan Professor S.Sivaganesan, Professor  A.Sathishkumar  Professor | Performance Analysis of Three Phase Induction Motor Fed by Multilevel Inverter Using Several Modulation Techniques with MATlab Simulink | Volume 08,  ISSUE 3 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | July-Sep 2020 | No | **-** | Yes | Yes |
| 22 | A.Sathishkumar  Professor  M. Saravanan Professor S.Sivaganesan, Professor | Control Solicitation of PV Solar Farm as PV-STATCOM for Reactive Power Reimbursement during Day and Night in a Transmission Network | Volume 08,  ISSUE 4 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | July-Sep 2020 | No | **-** | Yes | Yes |
| 23 | S.Sivaganesan,  Professor  A.Sathishkumar  Professor  M. Saravanan Professor | Current Control Approach for Parallel Operation of Inverters Based on Micro grids | Volume 08,  ISSUE 4 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | oct-Dec 2020 | No | **-** | Yes | Yes |
| 24 | M. Saravanan Professor S.Sivaganesan, Professor  A.Sathishkumar  Professor | Dual-Mode Control of AC/VSC -HVDC Fusion Transmission Systems with United Wind Power | Volume 08,  ISSUE 4 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | oct-Dec 2020 | No | **-** | Yes | Yes |
| 25 | A.Sathishkumar  Professor  M. Saravanan Professor S.Sivaganesan, Professor | Neutral point clamped transformer less grid m connected inverter taking voltage buck–boost capability for PV- systems | Volume 08,  ISSUE 4 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | oct-Dec 2020 | No | **-** | Yes | Yes |
| 26 | S.Sivaganesan,  Professor  A.Sathishkumar  Professor  M. Saravanan Professor | Mechanism of Doubly Fed Induction Generator based Wind Energy Adaptation System | Volume 08,  ISSUE 4 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | oct-Dec 2020 | No | **-** | Yes | Yes |
| 27 | A.Sathishkumar  Professor  M. Saravanan Professor S.Sivaganesan, Professor | Mathematical Sculpting of PEMFC and PV-Module | Volume 08,  ISSUE 4 ISSN:  0008-6452 | **International Journal of Intellectual Advancements and Research in Engineering Computations** | oct-Dec 2020 | No | **-** | Yes | Yes |
| 29 | .Dr.M.Saravanan,  Dr.R.Devasaran,  G.Merline,  Dr.G.Seshadri | “POWERED INDUSTRIAL MONITORING SYSTEM BASED ON ARM PROCESSOR” | accepted | Solid state technology | December, 2020. | **Yes** |  | Yes | Yes |
| 30 | S.Sivaganesan,  Professor  Dr.G.Seshadri  Professor | “PERFORMANCE ANALYSIS OF DIRECT-QUADRATE IN THREE PHASE INDUCTION MOTOR DRIVE” | Volume XII, Issue II, February-2020, | Studia Rosenthaliana | February-2020, | No | **-** | Yes | Yes |
| 31 | S.Sivaganesan,  Professor  Dr.G.Seshadri  Professor | “PERFORMANCE ANALYSIS OF GRID SYNCHRONIZATION METHOD FOR THREE-PHASE THREE-WIRE NETWORKS UNDER GRID FAULT CONDITIONS” | Volume XI, Issue II,  February/2020 | WAFFEN-UND KOSTUMKUNDE JOURNA | February/2020 | No | **-** | Yes | Yes |
| 32 | Dr.G.Seshadri  Professor | “PI AND FUZZY CONTROLLER UTILIZING PV-HESS BASED ZETA CONVERTER FOR BLDCMOTOR DRIVE” | volume-8 issue-5 ,January 2020. | International Journal of Recent Technology and Engineering | January 2020 | **Yes** |  | Yes | Yes |

R&D Co-ordinator HoD/EEE Principal

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**Details of International / National Conference Papers published by the Faculty**

**A.Y: 2019 – 2020**

**Department of Electrical & Electronics Engineering**

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| **S.**  **No.** | **Names of the Staff with Designation** | **Name of the Conference** | **National / International** | **Venue of the Conference conducted** | **Dates of the Conferences conducted** | **Title of the Paper & Page Nos. (from to )** | **Paper enclosed Soft & Hard copies**  **(Yes or No)** |
| 1 | Vetriveeran  Rajamani, G. Seshadri, Chandra kamal, S.Sivaganesan | ICEETM69 | International | ASHOKA Institute of Engineering & Technology | Sep 2019 | An Application of Gesture Controlled Robot in Irrigation P.No:39 | Soft Copy |
| 2 | Vetriveeran  Rajamani, S. Sivaganesan, Poongundran Selvaprabhu, Sunil Chinnadurai | ICEETM69 | International | ASHOKA Institute of Engineering & Technology | Sep 2019 | PTC Memristor Oscillator via Hopf Bifurcation  P.No:50 | Soft Copy |
| 3 | M.Saravanan, R.Devasaran, G.Seshadri S. Sivaganesan | ICEETM69 | International | ASHOKA Institute of Engineering & Technology | Sep 2019 | Performance Analysis of Very Sparse Matrix Converter Using Indirect Space Vector Modulation  P.No:72 | Soft Copy |
| 4 | S.Sivaganesan,  G. Seshadri, R. Devasaran, Vetriveeran Rajamani, M. Saravanan | ICEETM69 | International | ASHOKA Institute of Engineering & Technology | Sep 2019 | Performance Analysis of Grid  Synchronization Method for Three-Phase Three-Wire Networks under Grid Fault Conditions  P.No:73 | Soft Copy |

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| 5 | Tieumala Anitha,  S. Sivaganesan, G.Ravinder Reddy, R.Bhargavi | ICEETM69 | International | ASHOKA Institute of Engineering & Technology | Sep 2019 | Performance Investigation of Switch Inductance Quasi Impedance Source Inverter with Sine PWM Based ACAC Converter Fed Induction Motor Load with Power Generator  P.No:71 | Soft Copy |

**Details of Patent/Books Published by the faculty**

**Department of Electrical & Electronics Engineering**

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| **S.No** | **Name of the staff members with designation** | **Title of the invention** | **Patent/Books Application/ Registration number** | **Name of the organization** | **Year and month of Pattern published** | **Patent type (India/US/Any other)** |
| 1. | Dr.A.Sathish Kumar | Door Mounted Door Handle Sanitizer Dispenser | 202041028733 | IPI | 28/06/2020 | INDIAN |
| **2** | Dr.M.Saravanan | Remote monitoring and control of electrical machine using wireless | 202041022860 | IPI | 01/06/2020 | INDIAN |

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