

RESUME

Dr.N.DEVARAJAN

Dean (research),
Sri Ramakrishna Institute of Technology,
Pachapalayam, Coimbatore – 641010.
Email : drdevarajn@gct.ac.in, profdevarajan@yahoo.com
Phone : +919443245163, 0422- 2451621



PERSONAL DETAILS

Father's Name : S. Nanjundappan
Date of Birth & Age : 11/05/1958 & 58 Years
Nationality & Religion : Indian & Hindu
Community : B.C.

EDUCATIONAL QUALIFICATIONS

S.No.	Degree /Specialization	University	Institution	Rank & Year of Passing
1.	B.E. (EEE)	Madras University, Madras.	Govt. College of Tech. Coimbatore	First Class 1982
2.	M.E. (Power System)	Bharathiyar University, Coimbatore.	Govt. College of Tech. Coimbatore	First Class 1989
3.	Ph.D. (Control System)	Bharathiyar University, Coimbatore.	P.S.G. College of Tech. Coimbatore	2000

ACADEMIC EXPERIENCE

S.No	Designation	Name of the Employer	Period		Experience	
			From	To	Years	Months
1.	Professor	Director of Tech.Education Govt. of Tamil Nadu, Chennai.	05/09/2009	31/05/2016	6	9
2.	Associate Professor	Director of Tech.Education Govt. of Tamil Nadu, Chennai.	01/01/2006	04/09/2009	3	8
3.	Assistant Professor	Director of Tech.Education Govt. of Tamil Nadu, Chennai.	18/10/2000	31/12/2005	5	2
4.	Lecturer	Director of Tech.Education Govt. of Tamil Nadu, Chennai.	19/01/1984	17/10/2000	16	9
Total Experience					32	4

RESPONSIBILITIES HELD

IN THE DEPARTMENT

- Guided 80 numbers of projects for both B.E & M.E students.
- **As a principal Investigator, received Rs 5 Crores from Government under TEQIP (Phase-II) and established Center of Excellence on Alternate Energy Research in the Dept. of EEE, GCT.**
- Convened one International Conference on “Alternate Energy Technologies” under TEQIP-II (CoE-AER)
- Conducted two National Conferences in the Dept. of Electrical Engg., Govt.College of Technology, Coimbatore.
- Conducted one community development programme and many Faculty development programmes under TEQIP.
- Acted as faculty advisor for M.E. students.
- Acted as a Chairman Board of Studies for Electrical branch, Government College of Technology, Coimbatore.
- Arranged, prepared and co-ordinated for the NBA committee visit to Electrical Department, GCT.

IN THE COLLEGE

- Acted as **Zonal officer, Anna University, Zone-7** Coimbatore to conduct B.E./B.Tech/ M.E Degree examinations and central valuation for 26 Engineering Colleges from 2002 to 2006.
- Member of academic council for Govt. College of Tech. (Autonomous Institution) Coimbatore.
- Acted as Equity Nodal co-ordinator for TEQIP.
- Acting as Nodal officer for Anti ragging committee.
- Acted as Deputy Warden, Hostel superintendent (Administration) and Associate Warden for Hostels of Govt.College of Technology, Coimbatore

OUTSIDE THE COLLEGE

- Acted as technical committee member and Chairperson to conduct National /International Conference in the Dept. of Electrical Engg., Govt. College of Engg., Salem, C I T, Coimbatore, Kongu Engg. College, Perundurai.
- Member of academic council for **Anna University, Chennai,(Governor Nominee)** Coimbatore Institute of Technology, SriKrishna College of Engg. & Technology, KSR college of Engineering, Kumaraguru College of Technology.

- Acted as a subject expert member for staff recruitment process in Govt. Organization, Engineering colleges and polytechnics through **TNPSC** and **TRB**.
- Acting as an expert member for Anna University Doctoral Committee.
- Acted as **AICTE nominee** for selection of Principal in Govt. aided polytechnic
- Member in the three member committee constituted by **State Government** to inspect and enquire the complaints relating to collection of capitation fee and charging of exorbitant amount than the fee prescribed by the committee in respect of Self financing Engineering Colleges in Coimbatore zone.
- Acted as a **State Government nominee** in the Expert Committee constituted by **University Grants Commission** to evaluate the performance and academic attainments for the extension of Autonomous status to Kumaraguru College of Technology, Sri Ramakrishna Engineering College, Coimbatore.
- As a convener of Inspection committee constituted by **Commissioner of Technical Education**, inspected many Colleges & Polytechnics for starting new college and new courses.
- Reviewer of **IEEE** Transactions on Control Systems, **IEEE** Transactions on Computer-Aided Design of Integrated Circuits and Systems, International Journal of Power and Energy Conversion (IJPEC), Journal of Electrical and Electronics Engineering Research (JEEER), The Scientific World Journal , Journal of Engineering & Technology , International Journal of Computer Science and Information Security, Journal of Institution of Engineers(India) : Series B.
- Member of Board of studies for Electrical branch, Karpagam College of Engineering , KSR College of Engg.& Technology, Anna University, Coimbatore.
- Member of Governing Council for Kalaignar Karunanithi Institute of Technology, Kalavani College of Technology, Karpagam Institute of Technology, Coimbatore.,United Institute of Technology, Coimbatore.
- As a convener of Affiliation committee, inspected many Colleges for granting Affiliation.
- As a member of committee constituted by Anna University, Chennai, Inspected Muthayamma Engineering College, for granting Autonomous.
- Acted as a external chief academic audit committee member and TEQIP purchase Committee member for Coimbatore Institute of Technology.
- Acted as an expert member for staff selection at Anna University, Chennai.
- As a convener of Inspection committee, inspected many Colleges (SNS., SREC., SRIT, PA College of Engg.) for granting Research Centre in EEE department.
- As a Chairman of committee constituted by Anna University, Chennai, Inspected Hindusthan College of Engineering & Technology, Karpagam College of Engineering, Coimbatore, for granting Autonomous.

RESEARCH EXPERIENCE

Research Experience	: 18 Years
No. of Ph.D Candidates Produced	: 33
No. of Ph.D Candidates Guiding	: 5
No. of Courses Organized	: 8
No. of National Conferences Convened	: 2
No. of International Conferences Convened	: 1
No. of Courses Attended	: 36
Awards Received	: 8
No. of Publications in Journals	: 190 (Details in Annexure- I)
No. of Publications in Conferences	: 184 (Details in Annexure- II)

Google Scholar Report (as on 01.07.2016)

Citation indices	All	Since 2011
Citations	442	396
h-index	9	9
i10-index	9	9

DOCTORAL GRADUATES DETAILS

S.No	Name of Ph.D Scholar	Title of Dissertation	Year of Graduation
1.	Manigandan T	A New Algebraic Approach for Linear System Model Reduction	Oct. 2005
2.	Poornaselvan K.J	Modeling and Control of Superheated Steam Temperature Control Process	Apr. 2006
3.	Duraisamy V	Neuro Fuzzy Approaches for Fault Detection in Rotating Machines	Jun. 2006
4.	Manikandan V	Certain Investigations on the Fault Diagnosis Aspects of Analog Circuits and Systems	Nov. 2007
5.	Somasundareswari D	Soft Computing Approach for Fault Detection in Electrical Machines	Dec. 2008
6.	Jayabarathi R	Certain Investigations on Reactive Power Compensation in a Power System Network Using Genetic Neuro Techniques	May. 2009
7.	Manoharan S	Certain Investigations and Implementation of DCR Technology in Induction Motors and Submersible Motors to Enhance Efficiency	Jul. 2010

8.	Karpagam M	Certain Investigations on the performance improvement of power converters	Jan. 2012
9.	Chitra D	Certain Approaches for Image Retrieval using Dissimilarity Measures	Mar. 2012
10.	Prawin Angel Michael	Certain Investigations and Realization of Space Vector Pulse Width Modulation in Field Programmable Gate Array for Drive Motors	Mar. 2012
11.	Maruthupandi P	Certain Investigations and Realization of optimum THD in FPGA based cascaded multilevel inverter-A Soft computing approach	May 2012
12.	Prasannamoorthy V	Investigations on Fault Detection and Classification of Analog and Power Electronic Circuits	May. 2012
13.	Vanitha V	Power Quality Improvement of Grid Connected Wind Electric Generator using Static Synchronous Compensator with Supercapacitor	Aug. 2012
14.	Senthamil Selvi M	Energy Efficient Distributed Coverage and Target Tracking Algorithm for Wireless Sensor Networks	Sep. 2012
15.	Sheela Shobana Rani K	A Hybrid Optimization Technique for Deployment and Routing in Wireless Sensor Networks.	Jan. 2013
16.	Babypriya B	A Novel Genetic Fuzzy Controller for Power Quality Improvement of DFIG Wind Turbine System	Jan. 2013
17.	Rajendran R	Certain Investigations and Realization of SVM-DTC of Induction Motor Drives Using FPGA	Jul. 2013
18.	Sharmila B	Certain control approaches for the improvement in the performances of networked DC motor control with network challenges	Aug. 2013
19.	Anila S	Certain Investigations on Face Detection and Face Recognition Techniques	Aug. 2013
20.	Sivaraju S S	Design of Induction Motor for Optimum Efficiency and Power Factor Using Soft Computing Techniques	Oct. 2013
21.	Parvathi P	Certain Investigations on ZVS-ZCS high frequency DC-DC converters	Nov. 2013
22.	Geetha V	Analysis and Diagnosis of Stuck-At and Bridging Faults in Reed-Muller Canonical Exclusive-OR Sum of Products Circuits	Nov. 2013
23.	Yuvaraju M	An Algebraic Scheme Employing Improved Water Swirl Algorithm For Lower Order Model Formulation of Linear Time Invariant Systems.	Nov. 2013

24.	Suresh S	Investigation on Performance of Hybrid CMCDSTATCOM for Mitigation of Load Current Harmonics in Medium Voltage Distribution Network	Nov. 2013
25.	Vanisri A	Cost Effective Sensorless Speed Control of Permanent Magnet Brushless DC Motor	Feb. 2014
26.	Nandhini R	An Enhanced QOS Provisioning for WIMAX Using Channel Aware Cross-Layer Scheduler	May. 2014
27.	Vijayakumari A	A Novel Maximum Power Point Tracking of Photovoltaic Array and Online Dynamically Decoupled Control of Micro-Grid connected Inverter	Nov.2014
28.	Latha J	Certain Approaches for Handwritten character Recognition and Machine Vision Inspection Systems Using Image Processing Algorithms	May. 2015
29.	Angeline Vijula D	Certain Investigations on Controller Design to Improve the Performance of a Non Linear Multivariable System with Control Challenges	Jun. 2015
30.	Muruganathan S	Certain Procedures for Improving Object Recognition and Shape Retrieval employing Mahalanobis Distance	Aug. 2015
31.	Umamaheswari K	Certain Optimization Algorithms with Neural Network Models for Solving DEDP in Power System Applications and Renewable Energy Design for Rural Electrification.	Dec. 2015
32.	Chitra.S	Certain Investigations and Application of Graph Theory for the Analysis of Power System Networks	Dec .2015
33.	Rukkmani..V	Design and Analysis of 8T/10T SRAM Cell for Power Reduction Using Low Power Techniques.	Dec. 2015

ONGOING RESEARCH

1	S.Hemavathi	A Novel approach for eco-friendly Power generation using Hybrid Model	Pursuing
2.	R.Alarmelu Mangai	Feature Identification using image processing Techniques	Pursuing
3	G. Arunkumar	Power quality improvement using FACTS devices.	Pursuing
4.	N. Malathi	Control system	Pursuing
5	K.Yasoda	Performance Enhancement of Doubly fed Induction Generators in Wind Turbines	Pursuing

COURSES ORGANIZED

S. No.	Name of the course	Sponsored by	Duration		No. of days	Conducted by
			From	To		
1.	FDP on “Soft computing techniques in Electrical Systems and control”	AICTE	9.5.2012	22.5.2012	14	Department of Electrical & Electronics Engineering, Government College of Technology, Coimbatore -13.
2.	FDP on “Engineering Solutions Through MATLAB”	TEQIP	11.10.2012	17.10.2012	7	Department of Electrical Engineering, Government College of Technology, Coimbatore -13.
3.	FDP on “Efficient Control of Renewable Energy and its Conservation”	AICTE	25.4.2013	8.5.2013	14	Department of Electrical Engineering, Government College of Technology, Coimbatore -13.
4.	FDP on “Avenues for Advanced Research in Modern Power Electronics and Hybrid Energy Systems”	AICTE	15.5.2013	28.5.2013	14	Department of Electrical Engineering, Government College of Technology, Coimbatore -13.
5.	FDP on “Smart Grid – Challenges and Opportunities”	AICTE	29.5.2013	11.6.2013	14	Department of Electrical Engineering, Government College of Technology, Coimbatore -13.
6.	Interdepartmental Faculty Development Programme on “Recent Research Projects in Renewable Energy Sources”	TEQIP-II COE- AER	4.5.2015	8.5.2015	5	Department of Electrical Engg., Government College of Technology, Coimbatore -13 in collaboration with PROGEN Energy Solutions Coimbatore.
7.	Faculty Development Programme on “Research Issues in Renewable Energy Systems”	TEQIP-II COE- AER	25.5.2015	31.5.2015	7	Department of Electrical Engg., Government College of Technology, Coimbatore -13
8.	Faculty development programme on “The rise of renewables - integration challenges and opportunities”	TEQIP-II COE- AER	10.6.2015	16.6.2015	7	Department of Electrical Engg., Government College of Technology, Coimbatore -13

INTERNATIONAL CONFERENCE CONVENED

S. No.	Name of the course	Sponsored by	Duration		No. of days	Conducted by
			From	To		
1.	International Conference on “Alternate Energy Technologies”	TEQIP-II COE- AER	25.11.2015	26.11.2015	2	Department of Electrical Engg., Government College of Technology, Coimbatore -13

NATIONAL CONFERENCES CONVENED

S. No.	Name of the course	Date	Conducted by
1.	National Conference on Electrical and Instrumentation Systems, (NCEIS'12), GCT, Coimbatore, 2012.	22.3.2012	Department of Electrical Engg., Government College of Technology, Coimbatore -13
2.	National Conference on Electrical and Instrumentation Systems, (NCEIS'13), GCT, Coimbatore, 2013.	13.4.2013	Department of Electrical Engg., Government College of Technology, Coimbatore -13

COURSES ATTENDED

S.No.	Name of the course	Sponsored by	Duration		No. of days	Conducted by
			From	To		
1.	Short Term Course on “Advances in Digital Control”	QIP	4.12.1989	15.12.1989	12	Indian Institute of Technology, Bombay.
2.	Summer School on “Computer Aided Power System Planning Operation and Control”	ISTE	16.5.1991	29.5.1991	14	Department of Electrical and Electronics Engg., Govt. Engineering College, Trichur -9.
3.	Summer School on “Special Electrical Machines and Computer Aided Design”	ISTE	10.6.1991	23.6.1991	14	PSG College of Technology, Coimbatore.
4.	Short Term Course on “Modern Controls in Electrical Drives”	ISTE	2.12.1991	14.12.1991	13	Department of Electrical and Electronics and Engineering, NSS College of Engineering, Palakkad -8.
5.	Summer School on “Recent Advances in Simulation, Control and Management of Electrical Energy Systems”	ISTE	3.5.1993	14.5.1993	12	Department of Electrical Engineering, Regional Engineering College, Calicut.
6.	Short Term Course on “UNIX and C”	ISTE Continuing Education Project	11.2.1994	15.4.1994	64	Department of Computer Science, Government College of Technology, Coimbatore -13.
7.	National Conference on “Modern Trends in Electrical and Instrumentation Systems”		9.3.2005	10.3.2005	2	Department of Electrical and Electronics and Instrumentation Engg., Government College of Technology, Coimbatore -13

8.	Intensive Training Programme on “ Software and Hardware for Virtual Instrumentation”	TEQIP	28.4.2005	29.4.2005	2	Department of Electrical and Electronics and Instrumentation Engg., Government College of Technology, Coimbatore -13
9.	FDP on “ Modern Tools for Simulation, Digital Design and Data Acquisition”	TEQIP	21.11.2005	4.12.2005	14	Department of Electrical and Electronics and Instrumentation Engg., Government College of Technology, Coimbatore -13.
10.	FDP on “Embedded Systems”	TEQIP	22.1.2007	24.1.2007	3	Department of Electrical Engg., Government College of Technology, Coimbatore -13.
11.	FDP on “DSP-FPGA Motor Drives”	TEQIP	1.11.2007	2.11.2007	2	Department of Electrical Engg., Government College of Technology, Coimbatore -13.
12.	FDP on “Graphical System Design using LABVIEW”		11.12.2008	13.12.2008	3	Department of Electrical and Electronics and Instrumentation Engg., Government College of Technology, Coimbatore -13 and National Instruments, Bangalore.
13.	Workshop on “DSP-FPGA Based System Design”		11.3.2011	-	1	Department of Electrical Engineering, Government College of Technology, Coimbatore -13.
14.	Seminar on “ Research issues in Grid Computing”	AICTE	30.3.2010	31.3.2010	2	Department of Computer Science Engineering and Information Technology, Government College of Technology, Coimbatore -13.
15.	Training on “Disaster Risk Management Programme” (Urban Earthquake Vulnerability Reduction Project)	GOI-UNDP	2.12.2009	15.12.2009	14	Department of Civil Engineering, Government College of Technology, Coimbatore -13.
16.	Workshop on “ Power Quality”		9.9.2009	-	1	Department of Electrical Engineering, Government College of Technology, Coimbatore -13.

17.	Faculty Development Programme on “Recent Advancements in Virtual Instrumentation and its Applications”		3.9.2009	4.9.2009	2	Department of Electrical Engineering, Government College of Technology, Coimbatore -13 and Innovative Invaders, Coimbatore.
18.	Workshop on “ Neural Networks”		31.8.2009		1	Department of Electrical Engineering, Government College of Technology, Coimbatore -13.
19.	Workshop on “ Wavelets and its applications to signal processing”		20.8.2009		1	Department of Electrical Engg., Government College of Technology, Coimbatore -13.
20.	Workshop on “ Industrial Avenues for Embedded Systems”		9.8.2009		1	Department of Electrical Engg., Government College of Technology, Coimbatore -13.
21.	FDP on “ Soft computing techniques in Electrical Systems and control”	AICTE	9.5.2012	22.5.2012	14	Department of Electrical & Electronics Engg., Government College of Technology, Coimbatore -13.
22.	FDP on “Recent advancements in Virtual Instrumentation & Embedded system design”	TEQIP	16.6.2010	22.6.2010	7	Department of Electrical Engg., Government College of Technology, Coimbatore -13.
23.	FDP on”Engineering Solutions Through MATLAB”	TEQIP	11.10.2012	17.10.2012	7	Department of Electrical Engg., Government College of Technology, Coimbatore -13.
24.	FDP on “Restructured Power Markets and Facts Devices”	TEQIP	28.2.2013	6.3.2013	7	Department of Electronics and Instrumentation Engg., Government College of Technology, Coimbatore -13.
25.	NPTEL Workshop by IITs and IISC		9.4.2013		1	Government College of Technology, Coimbatore -13.
26.	FDP on “ Efficient Control of Renewable Energy and its Conservation”	AICTE	25.4.2013	8.5.2013	14	Department of Electrical Engg., Government College of Technology, Coimbatore -13.
27.	FDP on “Avenues for Advanced Research in Modern Power Electronics and Hybrid Energy Systems”	AICTE	15.5.2013	28.5.2013	14	Department of Electrical Engg., Government College of Technology, Coimbatore -13

28.	FDP on “Smart Grid – Challenges and Opportunities”	AICTE	29.5.2013	11.6.2013	14	Department of Electrical Engg., Government College of Technology, Coimbatore -13.
29.	National Workshop on “Quality Initiatives in Technical and Higher Educational Institutions” (In Compliance with NBA & NAAC Accreditation)	TEQIP-II COE - AER	16.9.2013	18.9.2013	3	Engineering Staff College of India, Hyderabad.
30.	Quality Improvement Cell Workshop		23.1.2014		1	Government College of Technology, Coimbatore -13.
31.	Special lecture on “Solar Energy Technologies” on		06.3.2015		1	Department of Electrical Engg., Government College of Technology, Coimbatore -13
32.	Interdepartmental Faculty Development Programme on “Recent Research Projects in Renewable Energy Sources”	TEQIP-II COE- AER	4.5.2015	8.5.2015	5	Department of Electrical Engg., Government College of Technology, Coimbatore -13 in collaboration with PROGEN Energy Solutions Coimbatore.
33.	Workshop on “Wind Energy -Current Trends in Industry “		20.5.2015		1	Department of Electrical Engg., Government College of Technology, Coimbatore -13
34.	Faculty Development Programme on “Research Issues in Renewable Energy Systems”	TEQIP-II COE- AER	25.5.2015	31.5.2015	7	Department of Electrical Engg., Government College of Technology, Coimbatore -13
35.	Faculty development programme on “The rise of renewables - integration challenges and opportunities”	TEQIP-II COE- AER	10.6.2015	16.6.2015	7	Department of Electrical Engg., Government College of Technology, Coimbatore -13
36.	Workshop on “Research Focus in Smart Grid and Wind Energy Synchronization”	TEQIP-II COE- AER	15.7.2015		1	Department of Electrical Engg., Government College of Technology, Coimbatore -13

AWARDS RECEIVED

S.No.	Awarded for	In	On	Awarded By
1.	Produced 5 PhD Scholars during the academic year 2011-12	Award Ceremony 2012	5.9.2012	Government College of Technology, Coimbatore -13.
2.	Published 14 papers during the academic year 2011-12	Award Ceremony 2012	5.9.2012	Government College of Technology, Coimbatore -13.
3.	Produced 4 PhD Scholars during the academic year 2012-13	Award Ceremony 2013	12.9.2013	Government College of Technology, Coimbatore -13.
4.	Published 47 papers during the academic year 2012-13	Award Ceremony 2013	12.9.2013	Government College of Technology, Coimbatore -13.
5.	Produced 7 PhD Scholars during the academic year 2013-14	Award Ceremony 2014	5.9.2014	Government College of Technology, Coimbatore -13.
6.	Published 17 papers during the academic year 2013-14	Award Ceremony 2014	5.9.2014	Government College of Technology, Coimbatore -13.
7.	Produced 2 PhD Scholars during the academic year 2014-15	Award Ceremony 2015	4.9.2015	Government College of Technology, Coimbatore -13.
8.	Published 19 papers during the academic year 2014-15	Award Ceremony 2015	4.9.2015	Government College of Technology, Coimbatore -13.

MEMBERSHIP IN PROFESSIONAL BODIES

Fellow : The Institution of Engineers (India) **IE(I)** No. **F111992 / 5**

Life Member : Indian Society for Technical Education (**ISTE**) No. **LM 9052**

Certified that the information's given above are true to the best of my knowledge and belief.

Station : Coimbatore-13

Date :

Signature

ANNEXURE - I

RESEARCH PUBLICATIONS IN JOURNALS

1. Duraisamy.V , Devarajan.N, Somasundareswari.D, Sivanandam.S.N, ‘ A simulation study on the design of Fuzzy fault detector with different membership function’, The Journal of system science and engineering (System Society of India), vol.9, No.1, June 2004, pp 31-35.
2. Duraisamy.V, Devarajan.N, Somasundareswari.D, Sivanandam.S.N, ‘ Comparative study of membership functions for design of fuzzy fault diagnosis system for single phase induction motor’, Academic open internet Journal, vol.13, www.acadjournal.com/2004/V13/Part 6/p4/September **2004** .
3. Poornaselvan.K.J, Devarajan.N, Sivanandam.S.N, Prasanna.R, ‘Modeling , analysis and stabilization of linear systems using symbolic algebra’, AMSE, International Journal of Advances in Modeling and simulation in Enterprises, France, vol.59, Issue 2, **2004**, pp 75- 84.
4. Duraisamy.V, Devarajan.N, Somasundareswari.D, Sivanandam.S.N, ‘ Fuzzy implemented negative sequence component approach for fault detection in induction machine’, Indian Journal for power and river valley development , Vol.55, No.1&2, January **2005** , pp 05-08.
5. Duraisamy.V, Devarajan.N, Somasundareswari.D, Sivanandam.S.N, Vinothkumar.P.S ‘A Fuzzy based fault detection scheme for Synchronous generator’, Academic open internet journal, vol.14, www.acadjournal.com/2005/V14/part 1/p1/March **2005**.
6. Poornaselvan.K.J, Devarajan.N, Sivanandam.S.N, Vijayanalini.R, ‘ Design of PID controller for linear time invariant discrete systems’, GESTS, Transactions on computer science and engineering, South Korea, vol.6, No.1, May **2005**,pp 204-210.
7. Poornaselvan.K.J, Devarajan.N, Sivanandam.S.N, Banurekha.M, ‘Modeling of a power plant super-heater process using regressive method’, Indian Journal for power and river valley development, vol.55, No.6. , June **2005**, pp 152-154.
8. Poornaselvan.K.J, Devarajan.N, Sivanandam.S.N, Banurekha.M, ‘Identification of non-linear models of power plant process’, GESTS, global Engineering , Science and Technology society, Transactions on Computer science and Engineering, South Korea, **2005**. (Accepted for Publication).
9. Poornaselvan.K.J, Devarajan.N, Sivanandam.S.N, Banurekha.M, ‘PID Controller using hybrid genetic algorithm’ , GESTS, Global Engineering , Science and Technology society, Transactions on Computer science and Engineering ,South Korea, **2005**.(Accepted for Publication).

10. Poornaselvan.K.J, Devarajan.N, Sivanandam.S.N, Preethi.M ‘Symbolic Computation in system stabilization and control’, National Journal of system Society of India, Vol.12. July **2005**
11. Duraisamy.V, Devarajan.N, Somasundareswari.D, Sivanandam.S.N. ,’Fuzzy Fault detector for three phase induction machine with compensation for motor asymmetry and supply voltage unbalance’, AMSE , International Journal of Advances in modeling and simulation in Enterprises, France, Vol. 78, No.3, **2005** pp. 47-58.
12. Duraisamy.V, Devarajan.N, Somasundareswari.D, Sivanandam.S.N, Charulatha.P, ‘Sequence component impedance based fuzzy fault detection scheme for three phase induction motor’, AMSE , International Journal of Advances in modeling and simulation in Enterprises, France, Vol. 78, No.6, **2005**, pp. 71-81
13. Manigandan .T, Devarajan N. , Sivanandam S.N., ‘Design of State Feedback Controller and Observer using Reduced Order Model’, GESTS International Transaction on Computer Science and Engineering, South Korea Vol. 7, No.1, **2005**, pp. 99-115
14. Manigandan T., Devarajan N. and Sivanandam S.N., ‘Design of PID Controller using Reduced Order Model’, AOI Journal, Bulgaria, Vol.15,Part 1, **2005** pp. 3.
15. Manigandan T., Devarajan N. and Sivanandam S.N, ‘A Novel Method for Multivariable System Reduction’, AMSE, International Journal of Advances in Modeling and Simulation in Enterprises, France, **2006**, Vol 61, Issue 2, pp 63-78
16. Poornaselvan.K.J, Devarajan.N, Sivanandam.S.N, Kavitha P , ’Design of PID Controller using symbolic algebra’, AMSE, International Journal of Advances in Modeling and simulation in Enterprises, France, vol.61, Issue 3, **2006**, pp 35- 46.
17. Manigandan.T, Devarajan.N, S.N.Sivanandam, “Suboptimal control using reduced order model” AMSE, International Journal of Advances in Modeling and Simulation in Enterprises, France, Vol. 61, Issue 4, **2006**, pp1-18
18. Manigandan .T, Devarajan N. , Sivanandam S.N. ,’ A Novel method for linear system model reduction ‘, ACCST Research Journal, Vol. IV, No.2, **2006**.
19. Manikandan V., Devarajan N, ‘ A simulation before test approach for sensor fault diagnosis in state feedback systems with integral error compensation’, ACSE, International journal on Automatic Control and System Engineering , Vol 6, No.1 January **2006**, pp 81-87
20. Manikandan.V, Devarajan. N, ‘Neural network fault classifier for sensor fault diagnosis of an industrial system using integral absolute error criterion,’ i-manager’s Journal on Engineering & Technology, India, Vol 1,No.4, **2006**, pp 77-83
21. Manikandan .V, Devarajan N, ‘Fault Diagnosis of Linear analog circuits in frequency domain’ AMSE, International Journal of Advances in Modeling and Simulation in Enterprises, France, Vol. 79, No. 1, **2006**, pp 1-14,

- 22 Manikandan.V, Devarajan N , ' A diagnosis approach for parameter deviations in linear dynamical system using artificial neural networks' International journal of intelligent technology, U.K, vol1,number 3, **2006**, pp 197-203.
- 23 Jayabarathi .R, Devarajan.N, Sindhu.M.R., ' Optimal reactive resource locator and controller in distribution feeders using Genetic-neuro techniques', GESTS International Transaction on Computer Science and Engineering, South Korea, Vol. 32, No.1, July **2006**, pp. 195-205.
- 24 Somasundareswari.D, Devarajan.N, Duraisamy.V, Sivanandam S.N, 'Fuzzy controlled braking resistor scheme to enhance transient stability of a synchronous generator', Indian Journal for power and river valley development, vol.56, No.7 & 8. August **2006**, pp 179-182.
- 25 Somasundareswari.D, Devarajan.N, Duraisamy.V, Sivanandam.S.N, 'Neuro fuzzy schems for fault detection in Power Transformer, **ELSEVIER, SCIENCE-DIRECT** International journal on Applied soft computing, UK, **2006**. pp 534-539
- 26 Somasundareswari.D , Devarajan.N, Duraisamy.V, Sivanandam.S.N,' Modified Back Propagation algorithm for incipient fault detection for three phase induction motor,' AMSE ,International Journal of Advances in Modeling and Simulation in Enterprises, France, Vol. 79,No.1, **2006**, pp15-26
- 27 Manikandan V, .Devarajan N, "A Probabilistic Approach for Soft Fault Diagnosis in Analog Electronic Circuits using Markovian Graphical Method " International Journal of Mathematics and Analysis , ,Vol. 4, No. 1-3, **2006**, pp. 65-85.
- 28 Manigandan.V, Devarajan.N, Ramakrishnan.K, "Fault Diagnosis of linear system using artificial Neural network" AMSE, International Journal of Advances in Modeling and Simulation in Enterprises, France, Vol.62, Issue 4,**2007**, pp 56-67.
- 29 Duraisamy.V, Devarajan.N, Somasundareswari.D, S.N.Sivanandam, "A Simulation study on the membership functions and defuzzification schemes for fuzzy based fault diagnosis in single phase induction motor" AMSE, International Journal of Advances in Modeling and Simulation in Enterprises, France, Vol.80, Issue 1,**2007**, pp 52-65.
- 30 Manikandan.V, Devarajan. N, 'Mathematical Approach towards Fault detection and Isolation of Linear Dynamical Systems', International Journal of Mathematics Sciences, UK, Volume 1, No. 1, **2007**, pp 82 – 91.
- 31 Manikandan V, Devarajan N, "The application of back propagation neural network and markov parameters towards fault diagnosis in linear dynamical system", Journal of Dynamical Systems and Geometric Theories, Vol 5 ,No.1 **2007**
- 32 Manikandan V, Devarajan N , 'SBT Approach Towards Analog Circuit Fault Diagnosis' Active and Passive Electronic Components, Hindawi Publications, USA,(Accepted for Publication in **2007**,Q4) (Formerly Taylor and Francis)
- 33 Jayabarathi .R, Devarajan.N, 'ANN Based DSPIC Controller for Reactive Power Compensation', American Journal of Applied Sciences 4(7), New York, USA **2007**, pp. 508-515.

- 34 Manoharan,S, Devarajan N, Deivasahayam,M , ‘Enriched Efficiency in Squirrel cage Induction Motors by using DCR Technology’, National Journal of Technology, PSG College of Technology, Coimbatore, No.4, Vol.3, **2007**, pp.55-61.
- 35 Senthamilselvi M, Devarajan N, ‘ An energy efficient distributed algorithm for connected sensor cover in sensor networks’ International Journal of Computer Science and Network Security, Seoul, Korea, Vol. 8, No. 9, September **2008**, pp.265-271.
- 36 Senthamilselvi M, Devarajan N, ‘ Distributed Algorithms for connected sensor cover with dynamic coverage maintenance in sensor networks’ ISAST transactions on Intelligent systems No 2, Vol.2, **2008**, pp.36-42
- 37 Manoharan.S. Devarajan N. Deivasahayam.M and Ranganathan, ”Cost Effective Production of Submersible Pump sets Using DCR Technology” ,i-manager’s Journal on Electrical Engineering , India, Vol. 2,No.2, Dec **2008** ,pp 23-30
- 38 Karpagam.M, Devarjan.N, ‘Digital simulation of boost converter with active clamping using SIMULINK’ International journal of Engineering Research and Industrial Applications. (IJERIA), Vol.1, No.3, **2008**, pp 155-162.
- 39 MaruthuPandi P, Devarajan N. ‘Harmonic reduction in Sinusoidal Pulse Width Modulation(SPWM) based cascaded multilevel inverter- A soft computing approach ’, AMSE , International Journal of Advances in Modeling and Simulation in Enterprises, France, Vol 64, Issue 2, **2009**, pp 58-77.
- 40 Manikandan V, Devarajan N , ‘Artificial neural network based decision – making fault diagnosis in a normalized DC motor system’ International Journal of Automation and Control (IJAAC),Inderscience Publishers ,UK , vol 3 ,No.2/3, **2009**, pp171-188.
- 41 Manoharan.S. Devarajan N. Deivasahayam.M and Ranganathan, ‘Energy conservation through efficiency improvement in squirrel cage induction motors by using copper die cast rotors, Karunya journal of research Vol 1 Issue 1 **2009** pp74-85.
- 42 Pravin Angel Michael and Devarajan N,’ FPGA Implementation of Multilevel Space vector PWM Algorithms,’ International Journal of Engineering and Technology Vol 1 No 3, August **2009** pp 208-212.
- 43 Manoharan.S. Devarajan N. Deivasahayam.M and Ranganathan ,’Review on Efficiency Improvement in Squirrel Cage Induction Motor By Using DCR Technology’Journal of Electrical Engineering, Vol 60,No 4,**2009**, pp 227-236.
- 44 Venkatachalam K, Devarajan N, Balasubramanie P ‘Resource Sharing for Reconfigurable Multimedia Handoff Calls in Wireless Mobile Communication Networks’, HIT Transactions, HALDIA, W.B.,India, Vol-3, No. 9, **2009**, pp14-18.
- 45 Vanitha V, Devarajan N, ‘Effect of Wind Speed Changes on Grid Power Quality at Various Levels of Wind Electric Penetration- A Laboratory Investigation’ International Journal of Recent Trends in Engineering,Vol.1 No 4, **2009**, pp 8-13

- 46 Somasundareswari.D, Devarajan.N, Duraisamy.V, Sivanandam.S.N,'Optimized semicircular fuzzy membership function for broken rotor bar detection scheme for three phase induction motor, AMSE, International Journal of Advances in Modeling and Simulation in Enterprises, France, Vol. 82, Issue 3, **2009**, pp 79-94.
- 47 Karpagam.M, Devarjan.N, 'Implementation of Soft Switched DC DC Converters for High Power Application', International Journal of Applied Theory and Information Technology, Vol.1, No.3, **2010**, pp 52-58.
- 48 Karpagam.M, Devarjan.N, 'Extenuation of Voltage Harmonics in PWM AC Chopper Using Differential Evolution', European Journal of Scientific Research, Vol.42, No.2, **2010**, pp 204-213.
- 49 Chithra.J, Devarajan N, 'Solving Economic Dispatch Using Modified Particle Swarm Optimization', International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, Vol. 3: Issue 2, **2010**, pp 288-292.
- 50 Tamilmullai.V, Devarajan N, 'Solving The Economic Dispatch Problem Using Hybrid Particle Swarm Optimization and Differential Evolution', International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, , Vol. 3: Issue 2, **2010**, pp 283-287
- 51 Umadevi.A, Devarajan N, 'AN Effective Novel Digital PWM Controller Scheme for Brushless DC Motor Drives Using FPGA', International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, Vol. 3: Issue 2, **2010**, pp 358-362
- 52 Sharmila B, Devarajan N,' Performance of Networked Controlled DC Motor with Fuzzy Modulator" International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, Vol. 3: Issue 2, **2010**, pp.397-402.
- 53 Pravin Angel Michael, Devarajan N,' Design and Implementation of FPGA based Induction Motor Drive,' International Journal of Recent Trends in Engineering (IJRTE), Vol. 3, No 3, **2010**, pp 1-5
- 54 Pravin Angel Michael, Devarajan N,' Indirect Vector Control of Induction Motor Using Space Vector Pulse Width Modulation(SVPWM),' AMSE, International Journal of Advances in Modeling and Simulation in Enterprises, France, Vol. 84, Issue 1, **2011**, pp1-20.
- 55 Manoharan.S. Devarajan N. Deivasahayam.M and Ranganathan,' A comparative Analysis of Performance of 2.2 kW 3 Phase Induction Motor using DAR and DCR Technology', International Journal of Computer and Electrical Engineering, Vol.2, No 3, **2010**, pp 496-502.
- 56 Manoharan.S. Devarajan N. Deivasahayam.M and Ranganathan," Energy Conservation in Submersible Pump sets through Efficiency Improvements using Modified Slot Design and DCR Technology" International Journal of Computer and Electrical Engineering, Vol.6, Issue 2, **2010**, pp 1-15

- 57 Anila S, Devarajan N, 'Simple and Fast Face Detection System Based on Edges ' International Journal of Universal Computer Sciences, Vol. 1, Issue 2, **2010**, pp.54-58.
- 58 Rajendran R, Devarajan N, 'Simulation of Space Vector PWM Controller for a three phase VSI Fed Induction Motor Drive', National Journal of Technology, PSG College of Technology, Coimbatore, Vol.6, No.2, **2010**, pp.84-88.
- 59 Rajendran R, Devarajan N, 'FPGA Based Implementation of Space Vector Modulated Direct Torque Control for Induction Motor Drive', International Journal of Computer and Electrical Engineering, Vol.2, No.3, **2010**, pp.589-594.
- 60 Rajendran R, Devarajan N, 'Analysis and FPGA Realization of a Pulse Width Modulator Based on Voltage Space Vectors', International Journal of Computer Applications, Vol.2, No.6, **2010**, pp.46-51.
- 61 Sharmila B, Devarajan N, 'Performance of Networked DC Motor with Fuzzy Logic Controller' International Journal of Computer Science Issues, (**IJCSI**), Vol. 7, Issue 4, No.9, **2010**, pp 23-30.
- 62 Sharmila B, Devarajan N, 'Intelligent Controller for Networked DC Motor Control' International Journal of Computer Science and Information Security Issues, (**IJCSIS**), Vol. 8, No.8, **2010**, pp 131-137.
- 63 Pravin Angel Michael, Devarajan N, 'Implementation of SVPWM in FPGA through MATLAB/SIMULINK Environment,' International Journal of Engineering Science and Technology, Vol. 2(9), **2010**, pp 4585-4594.
- 64 Anila S, Devarajan N, 'An Efficient, High Secure Steganography Algorithm' CiiT International Journal of Digital Image Processing, Vol.2, No.11,**2010**, pp.435-444.
- 65 Prasannamoorthy V, Devarajan N, 'Computational Fault Diagnosis Technique for Analog Electronic Circuits Using Markov Parameters', International Journal of Computer Science and Information Security', Vol.8, No.1, April **2010**, pp 195-202.
- 66 Prasannamoorthy V, Bharat Ram R, Manikandan V and Devarajan N, 'Time Domain Analysis based Fault Diagnosis Methodology for Analog Circuits – A Comparative Study of Fuzzy and Neural Classifier Performance', International Journal of Computer Science and Information Security(**IJCSIS**), Vol.8, No.2, May **2010**, pp 306-313.
- 67 Manoharan.S. Devarajan N. Deivasahayam.M and Ranganathan , 'Enhancement of Energy Efficiency in Squirrel Cage Induction Motors Using DCR Technology', i-Manager's Journal on Electrical Engineering, Vol 4, No 2, **2010**, pp 13-19.
- 68 Maruthu Pandi P,Devarajan N,' Genetic Algorithm based comparative analysis of power quality in cascaded multilevel inverter', IJTES Journal Volume 1, No-2 July-Sep-**2010**, pp 161-167

- 69 Anila S, Devarajan N, 'The usage of Peak Transform for image Compression' International Journal of Science, Engineering and Technology, Vol.2, issue 11, Nov.2010, pp 6308-6316
- 70 Sheela Shobana Rani K, Devarajan.N,'Energy Efficient Approach for Collision Avoidance in Wireless Sensor Networks' The International Institute for Science, Technology and Education, Vol.10, No.10, 2010, pp 1-10.
- 71 Parvathy P, Devarajan.N, 'Computer Simulation of Phase Shifted Series Resonant DC to DC Converter ,' International Journal of Electrotechnics, Electronics, Automatic Control, Informatics, Vol. 33, No.2, 2010, pp 68-72.
- 72 Prasannamoorthy V, Devarajan N, ' Fault Detection and Classification in Power Electronic Circuits Using Wavelet Transformation and Neural Network', Journal of Computer Science, Vol. 7(1), 2011, pp 95-100.
- 73 Prasannamoorthy V, Devarajan N, 'Time Domain Technique for Fault Diagnosis of Analog Circuits with Flexible Accuracy Algorithm', European Journal of Scientific Research, Vol.51, No.2, 2011, pp 211-221.
- 74 Vanisri A, Devarajan N,' Indirect Position Detection and Speed Control of PMBLDC Motor using LABVIEW' International Journal of Electrical Engineering, Vol. 4, No.3, 2011, pp 289-298.
- 75 Anila S, Devarajan, ' Extraction of Head and face Boundaries for Face detection Applications', International Journal of Automated Identification Technology, Serials Publications, Vol.3, No.1, 2011, pp 27-33.
- 76 Anila S, Devarajan N, 'Global and Local Classifiers for Face Recognition', European Journal of Scientific Research, Vol.56, No.4, 2011,pp 556-566.
- 77 Sivaraju S.S, Devarajan.N,'Novel design of three phase induction motor enhancing efficiency, Maximizing power factor and minimizing losses' European Journal of Scientific Research, Vol.58, No.3, 2011,pp 423-432.
- 78 Maruthu Pandi P, Devarajan N, ' Performance enhancement of embedded system based multilevel inverter using Genetic Algorithm' Journal of Electrical Engineering, Slovakia, Volume 62,No4,2011 pp 190-198.
- 79 Maruthu Pandi P, Devarajan N, ' Comparative analysis of power quality issue in cascaded multilevel inverter using PWM Techniques', European Journal of Scientific Research, Vol.60, No.3, 2011,pp 58-77.
- 80 Vanitha V, Devarajan N, 'Analysis of Transient Stability Margin of a Wind Farm using Squirrel Cage Induction Generator with Fixed Capacitance Compensation', European Journal of Scientific Research, Vol. 59, No. 3, 2011, pp 370-382.

- 81 Chitra D, Devarajan N, 'Shape Retrieval through Angular Distance with Shortest Augmenting Path Algorithm', Journal of Computer Science, Vol. 7, No.12, **2011**, pp 1867-1874.
- 82 Senthamilselvi M, Devarajan N, 'An energy efficient Tracking Algorithm for Reduced Coverage in Wireless Sensor Networks', European Journal of Scientific Research, Vol.62, No.2, **2011**,pp 282-293.
- 83 Senthamilselvi M, Devarajan N, 'Distributed Coverage and Target Tracking Algorithm for Wireless Sensor Networks' , Journal of Computer Science, Vol.8, No.3, **2012**, pp 296-304.
- 84 Vimala R, Baskaran K, Devarajan N, ' Modeling and Filter Analysis of Differential Mode EMI for Switching Power Converters', European Journal of Scientific Research, Vol.52, No.4, **2011**,pp 553-568.
- 85 Geetha V, Devarajan N, Neelakantan,P.N, 'OR- Bridging Fault Identification and Diagnosis for Exclusive-OR Sum of Products Reed-Muller Canonical Circuits', Journal of Computer Science, Vol. 7(5), **2011**, pp 744-748.
- 86 Suresh.S, Devarajan.N, Geetha.M ' A Novel Algorithm for Hybrid Power Filter to Compensate three phase four wire system', International Journal of Advanced Engineering Science and Technology, Vol.3, Issue No.1, **2011**, pp 1-11
- 87 Suresh.S, Devarajan.N, Geetha.M, Rajesakaran .V 'Investigation on D-Statcom Operation for power quality improvement in a three phase three wire distribution system with a new control strategy', International Journal control theory and informatics, Vol.1,Issue No.2, **2011**, pp 6-13.
- 88 Vanisri.A, Devarajan.N, 'Torque Ripple Minimization Indirect Position Detection Permanent Magnet Brushless DC Motor', European Journal of Scientific Research, Vol.65, No.4, **2011**,pp 481-489.
- 89 Sivaram S.S, Devarajan.N,'GA Based Optimal Design of three phase squirrel cage induction motor for enhancing performance' International Journal of Advanced Engineering Technology, Vol. II, Issue IV, **2011**, pp 202-206
- 90 Kavithamani A, Manikandan V, Devarajan N, ' Analog Circuit Fault Detection Using Poles and Fuzzy Inference System' International Journal of Advanced Engineering Technology, Vol. II, Issue III, **2011**, pp. 260-269.
- 91 Kavithamani A, Manikandan V, Devarajan N, 'Analog Circuit Fault Detection Using Location of Poles' Journal of Electronic Testing. Theory and Applications (JETTA), **Springer**, Vol. 27, **2011**, pp. 673-678.
- 92 Rajendran R, Devarajan N,'Modeling and Simulation of PI controller for induction motor drives using Xilinx System Generator', National Journal of Technology, Vol.7, No.4, **2011**, pp-40-43.

- 93 Rajendran R, Devarajan N,' Xilinx System Generator based modeling and simulation of SVPWM', I-manager's Journal on Electronics Engineering, Vol. 1, No 4, **2011**, pp. 9-13.
- 94 Rajendran R, Devarajan N,'A Comparative Analysis of Pulse Width Modulation Techniques for Voltage Source Inverter fed induction motor drive', I-manager's Journal on Electrical Engineering, Vol. 5, No. 2, **2011**, pp 34 – 41
- 95 Rajendran R, Devarajan N,' FPGA based improved stator flux and torque estimators For direct torque control of induction motor drive system', I-manager's Journal on Electronics Engineering, Vol. 2, No. 1, **2011**, pp 1 – 5
- 96 Sharmila B, Devarajan N,' Neuro-Fuzzy Controller for Networked DC Motor Control,' European Journal of Scientific Research, Vol. 56, No.2, **2011**, pp219-228.
- 97 Kavithamani A, Manikandan V, Devarajan N, 'Fault Detection of Analog Circuit Using Network Parameters' Journal of Electronic Testing. Theory and Applications (JETTA), **Springer**, Vol. 27, **2012**, pp.
- 98 Vanitha V, Devarajan N, 'Transient Stability of Squirrel Cage Induction Generator in a Wind Farm using Static Synchronous Compensator and Super capacitor', International Journal of Electrical Engineering, Vol. 5, No.1, **2012**, pp 7-22
- 99 Sivaraju S.S, Devarajan.N,' Design of Induction Motor using Multiple Flux Technique' International Journal of Electrical Engineering, Vol. 5, No. 4, **2012**, pp 393-409
- 100 Sheela Shobana Rani K, Devarajan.N,' Optimization Model for Sensor Node Deployment' European Journal of Scientific Research, Vol.70, No.4, **2012**, pp 491-498.
- 101 Sivaraju S.S, Devarajan.N,' ELMA Based Design of SCMFIM to Improve the Efficiency and Power Factor' International Journal of Computer Applications (IJCA),Vol. 43, No. 22, **2012**, pp 23-29
- 102 Babypriya B, Devarajan N, 'Simulation and Analysis of a DFIG Wind Energy Conversion System with Genetic Fuzzy Controller' International Journal of Soft Computing and Engineering (IJSCE), Vol. 2, Issue 2, **2012**, pp 176-182.
- 103 Valarmathi R,Palaniswami S, Devarajan N, 'Simulation and Analysis of Wind Energy and Photo Voltaic Hybrid System' International Journal of Soft Computing and Engineering (IJSCE), Vol. 2, Issue 2, **2012**, pp 193-200.
- 104 Sivaraju S.S, Devarajan.N,' Improve the Efficiency and Power Factor of 2.2 kw, Three Phase, Multi-Flux, Squirrel Cage IM through Optimal Design ' International Journal of Scientific & Engineering Research, Vol. 3, Issue 5, **2012**, pp 1-8.
- 105 Rajendran R, Devarajan N,' A novel direct torque control of sensorless induction motor Drive with reduced flux and torque ripple', I-manager's Journal on Electrical Engineering, Vol. 5, No. 3, **2012**, pp 49 – 53.

- 106 Rajendran R, Devarajan N,' Dynamically Reconfigurable Control Structure for Three Phase Induction Motor Drives', International Journal of Power Electronics and Drive Systems (IJPEDS), Vol. 2, No. 1, **2012**, pp 43-50.
- 107 Rajendran R, Devarajan N,'A Comparative Performance Analysis of Torque Control Schemes for Induction Motor Drives', International Journal of Power Electronics and Drive Systems (IJPEDS), Vol. 2, No. 2, **June 2012**, pp 177-191.
- 108 Rajendran R, Devarajan N,' Simulation and Implementation of a High Performance torque control scheme of IM Utilizing FPGA" International Journal of Electrical and Computer Engineering (IJECE), Vol. 2, No. 3, **June 2012**, pp 277-284.
- 109 Vanisri A, Devarajan N,'Labview Based Indirect Position Control of Four Switch Three Phase Brushless DC Motor Using FPGA' International Journal of Electrical Engineering, Vol. 5, No. 6, **2012**, pp 699-712.
- 110 Vanisri.A, Devarajan.N, 'Fuzzy Logic Based Sensorless Control of Three Phase Brushless DC Motor Using Virtual Instrumentation', ARPN Journal of Science and Technology, Vol.2, No.4, **2012**, pp 322-329.
- 111 Vanisri A, Devarajan N,'FPGA Based Indirect Position Detection and Speed Control of PMBLDC Motor Using Virtual Instrumentation ' International Journal of Advanced Research in Technology, Vol. 2, Issue. 5, **2012**, pp 20-27.
- 112 Parvathy P, Devarajan.N, 'Simulation and Experimental Results of DC to DC Converter with Reduced Losses', European Journal of Scientific Research, Vol.76, No.1, **2012**, pp 20-30.
- 113 Parvathy P, Devarajan.N, 'Simulation and Implementation of Current Fed Full Bridge Boost Converter with Zero Current Switching for High Voltage Applications', International Journal of Computer Science Issues, Vol.9, No.3, **2012**, pp 531-536.
- 114 Parvathy P, Devarajan.N, 'An Efficient Soft Switched Full Bridge DC to DC Converter with Reduced Inductor Volume and Low Voltage Stress on the Switches', European Journal of Scientific Research, Vol.78, No.3, **2012**, pp 395-408.
- 115 Parvathy P, Devarajan.N, 'Comparison of Simulation and Experimental Results of ZVS Full Bridge DC - DC Converter and PWM Controlled Quasi-Resonant Converter,' International Journal of Emerging Trends in Engineering and Development, Vol.4, Issue.2, **2012**, pp 850-864.
- 116 Sheela Shobana Rani K, Devarajan.N,'Fuzzy Based Optimization for Power Management in Wireless Sensor Networks' International Journal of Computer Applications, Vol.48, No.4, **2012**, pp 10-16.
- 117 Sheela Shobana Rani K, Devarajan.N, ' Multiobjective Sensor Node Deployment in Wireless Sensor Networks' The International Journal of Engineering Science, Technology, (IJEST), Vol.4, No.4, **2012**, pp 1262-1266

- 118 Sheela Shobana Rani K, Devarajan.N,' A Fuzzy Based Optimization for Routing in Wireless Sensor Networks' Journal of Applied Sciences Research, Vol.8, No.4, **2012**, pp 2137-2142
- 119 Sheela Shobana Rani K, Devarajan.N,' Energy Efficient Approach for Collision Avoidance in Wireless Sensor Networks' Journal of Information Engineering and Applications, Vol.2, No.3, **2012**, pp 1-6.
- 120 Anila S, Devarajan N, ' Preprocessing Technique for face Recognition applications under varying Illumination Conditions', Global Journal of Computer Science and Technology, Vol.12, Issue 11, Version 1.0, **2012**, pp.13-18.
- 121 Anila S, Devarajan N, ' An Efficient Face Recognition System using Transforms', Archives Des Sciences, Vol.65, No.9, **Sep.2012**, pp. 222-234.
- 122 Anila S, Devarajan N, ' Superior Feature Sets for Face Recognition under Difficult Lighting Conditions', Journal of Applied Sciences Research, Vol.8, No.(7), **2012**, pp. 3344-3352.
- 123 Latha J, Devarajan N, 'An Approach to Feature Extraction for Hand Written Character and Recognition using Artificial Neural Network', European Journal of Scientific Research, Vol.78, No.1, **2012**, pp. 15-25.
- 124 Latha J, Devarajan N, 'In-Process Vision Inspection Systems for Sorting using Image Processing Techniques', Journal of Computer Science, Vol.8, No.4, **2012**, pp.528-532.
- 125 Sharmila B, Devarajan N, ' A Survey - Networked Control Systems' International Journal of Electrical Engineering, Vol. 5, No. 6, **2012**, pp 769-780.
- 126 Vijayakumari A, Devarajan N, ' Design and Development of a Model-Based Hardware Simulator for Photovoltaic Array' International Journal of Electrical Power and Energy Systems, **ELSEVIER**, Vol. 43, Issue. 1 **2012**, pp 40-46.
- 127 Geetha V, Devarajan N, Neelakantan,P.N, 'OR- Bridging Fault Analysis and Diagnosis for Exclusive-OR Sum of Products Reed-Muller Canonical Circuits', European Journal of Scientific Research, Vol. 71, No. 4 , **2012**, pp 482-489.
- 128 Geetha V, Devarajan N, Neelakantan,P.N, 'Analysis of Different Types of Faults in a Class of Boolean Circuits', International Journal of Engineering and Innovative Technology (**IJEIT**) , Vol. 2, Issue. 4 , **2012**, pp 145-149.
- 129 Chitra S, Devarajan N, ' Graph Theory and Power System Engineering – A Study Report', Archives Des Sciences, Vol.65, No.12, Dec. **2012**, pp. **652-664**.
- 130 Suresh.S, Devarajan.N, Rajesakaran .V ' Modeling and Analysis of Shunt Hybrid Filter to Enhance Power Quality for Mitigation of Load Current Harmonics', Advances in Natural and Applied Sciences, Vol.6, Issue No.8, **2012**, pp 1276-1282.

- 131 Suresh.S, Devarajan.N, Vidhya N, Rajesakaran .V ‘Modeling and Analysis of User-Defined-Constant-Switching Frequency DSTATCOM for three phase three wire distribution system’, International Journal of Engineering Trends and Technology, Vol.3, Issue No.2, **2012**, pp 213-220.
- 132 Arulmozhiyal R, Baskaran K, Devarajan N, ‘Real time MATLAB Interface for speed control of Induction motor drive using dsPIC 30F4011’, International Journal of Computer Applications, Vol.1, No.5, **2010**, pp.85-90.
- 133 Geetha V, Devarajan N, Neelakantan,P.N, ‘Single Network Structure for Stuck-at and Bridging Fault Analysis and Diagnosis for Exclusive-OR Sum of Products Reed-Muller Canonical Circuits’’, International Journal of Scientific & Engineering Research (**IJSER**) , Vol.4 , Issue.3 ,March **2013**, pp. 1-6
- 134 Rajendran R, Devarajan N, ‘ A Novel Direct Torque Control for Induction Motor Drive System with Low Torque Ripple and Current Distortion utilizing FPGA’, International Journal of Vehicle Autonomous Systems, Vol.11, Nos.2/3, **2013**, pp 292-312
- 135 Vanisri A, Devarajan N, ‘Cost Effective Sensorless Speed Control of Permanent Magnet Brushless DC Motor Using FPGA and Virtual Instrumentation ’ Wulfenia Journal , Vol. 20, No.1,Jan. **2013**, pp 72-83.
- 136 Suresh.S, Devarajan.N, Rajesakaran .V ‘ Modeling and Analysis of D-STACOM Operation for Power Quality Improvement in a Three Phase Three Wire Distribution System’, European Journal of Scientific Research, Vol 97, Issue No.4,**2013**, Accepted
- 137 Parvathy P, Devarajan.N, ‘Comparison of Phase Shifted Series Resonant DC - DC Converter with Modified Full Bridge Zero Voltage Switching DC-DC Converter,’ Archives Des Sciences, Vol.66, No.2, **Feb. 2013**, pp. 163-180.
- 138 Suresh.S, Devarajan.N, Dinakaran A.S, ‘Role of Custom Power Devices to Enhance the Power Quality in Grid Connected Renewable Energy Systems’, International Journal of Applied Engineering Research, Vol.8, No.3, **2013**, pp 223-237.
- 139 Priyadharshini A, Devarajan.N,’ Application of Wavelet Transform for the Detection and Minimization of Harmonics using Shunt Active Filter’ International Journal of Applied Engineering Research, Vol.8, No.10, **2013**, pp 36-41.
- 140 Yuvaraju M, Devarajan N, ‘Modelling a Lower Order Linear Time Invariant SISO Discrete System employing Water Swirl Algorithm’, European Journal of Scientific Research, Vol.101, No.4, **2013**, pp. 599-612.
- 141 Yuvaraju M, Devarajan N, ‘An Improved Water Swirl Algorithm for Lower Order Model formulation of Multivariable Linear Time Invariant Continuous System’, Life Science Journal, Vol.10, No.2, **2013**, pp. 1-8.
- 142 Nandhini R, Devarajan N, ‘An improved Channel Aware Cross-Layer Designed Scheduling for QoS Enhancement in IEEE 802.16 Wireless Networks’, Archives Des Science Journal, Vol.66, Issue. 3, **March 2013**, pp.1-12

- 143 Muruganathan S., Chitra D., Devarajan N., “Shape Retrieval through Mahalanobis Distance with Hungarian Algorithm”, Archives Des Sciences Journal, Vol. 66, Issue. 3, , **March 2013**, pp. 105 – 113.
- 144 Muruganathan S., Chitra D., Devarajan N., “Object Recognition and Shape Matching using Mahalanobis Distance with Shortest Augmenting Path Algorithm”, Archives Des Sciences Journal, Vol. 66, Issue. 3, **March 2013**. pp. 27 -38.
- 145 Muruganathan S., Devarajan N., Chitra D., “Object Recognition and Shape Matching using Mahalanobis Distance with Hungarian Algorithm”, European Journal of Scientific Research, Vol. 99, Issue 2, **April 2013**, pp.297-306.
- 146 Kavithamani A, Manikandan V, Devarajan N, ‘Soft Fault Classification of Analog Circuits Using Network Parameters and Neural Networks’ Journal of Electronic Testing. Theory and Applications (JETTA),**Springer**,Vol.29, No.2 **2013**, pp.237-240
- 147 Nandhini R, Devarajan N, ‘ Channel Quality Based Cross-Layer Scheduling Algorithm in Wimax Networks’, Life Science Journal, Vol.10, Issue. 2,**June 2013**, pp. 2498-2506.
- 148 Latha J, Devarajan N, ‘Comparative Analysis of Feature Extraction and Recognition of Hand Written Images - An Approach’, Jokull Journal,Vol. 63, No.7, **July 2013**, pp.155-165.
- 149 Nandhini R, Devarajan N, ‘ An Enhanced QoS Provisioning for VOIP Traffic in Wimax using Channel Aware Cross-Layer Scheduler’, Jokull Journal, Vol.63, Issue. 8, **Aug. 2013**, pp172-185.
- 150 Malathi N,Devarajan N, ‘ A New Sign Criterion for Stability Analysis and Root Distribution of Linear Time Invariant Discrete Systems with Real and Complex Coefficients’, Jokull Journal, Vol.63, Issue. 8, **Aug. 2013**, pp. 343-352.
- 151 Angeline Vijula D., Devarajan N, “Design of Decentralised PI Controller using Model Reference Adaptive Control for Quadruple Tank Process”, International Journal of Engineering and Technology, Vol.5, No.6, **2013**, pp. 1347-1356.
- 152 Angeline Vijula D., Devarajan N, “Optimal Regulator Design using Kalman's State Estimator for A Non Linear Multivariable Process”, International Journal of Electrical Engineering and Technology, Vol.6, No.2, **2013**, pp. 149- 163.
- 153 Latha J, Devarajan N, ‘ Feature Extraction of Hand Written Numeric Character and Recognition using Artificial Neural Network- A new Approach ’, Journal of Vibration and Control, Vol.20, No.12, **2014**, pp. 1869-1876.
- 154 Nandhini R, Devarajan N, “A Cross-Layer Scheduler with Channel State Information for Guaranteed Quality of Service”, Journal of Computer Science , Vol.10, Issue. 2, **2014**, pp. 255-263.

- 155 Nandhini R, Devarajan N, ‘Comparison for Wimax Scheduling Algorithms and Proposal Quality of Service Improvement in Wimax Networks’, American Journal of Applied Sciences, Vol.11, Issue. 1, **2014**, pp.8-16.
- 156 Muruganathan S., Devarajan N., Chitra D., Manigandan T., “Shape Retrieval Through Mahalanobis Distance with Shortest Augmenting Path Algorithm”, Journal of Computer Science, Vol. 10, Issue 4, January **2014**, pp.552-562.
- 157 Chitra S, Devarajan N, “Circuit Theory Approach for Voltage Stability Assessment of Reconfigured Power Network”, **IET-Circuits, Devices and Systems**, UK, March 2014, DOI: [10.1049/iet-cds.2013.0325](https://doi.org/10.1049/iet-cds.2013.0325), Available online: 10 April **2014**.
- 158 Chitra S, Devarajan N, “Optimal Power Flow Control of Power Transmission Networks using Graph Algorithms”, Journal of Vibration and Control, USA, DOI: 1077546314522086, Available online: 3 **March 2014**.
- 159 Chitra S, Devarajan N, “Performance Analysis of Loop Frame of Reference over Bus Frame of Reference” Journal of Academia and Industrial Research (JAIR), ISSN: 2278-5213, Vol.2, Issue 11, April **2014**, pp 613 – 616.
- 160 Chitra S, Devarajan N, Kavindra A., “A Graph Theory Based Approach for Voltage Sag Assessment in Distribution Network”, International Journal of Advanced Information Science and Technology (IJAIST), ISSN: 2319:2682, Vol. 23, No.23, March **2014**, pp. 19-26.
- 161 Umamaheswari K, Devarajan N, “A Refined Teaching-Learning Based optimization algorithm for Dynamic economic dispatch of integrated multiple-fuel and wind power plants”, Mathematical Problems in Engineering, Hindawi Publishing Corporation, **2014**, DOI: 10.1155/2014/956405.pp.1-14.
- 162 Jemima Gnana Pushpam, Devarajan N, “Energy Management in Hybrid System”, International Journal of Advanced Information Science and Technology (IJAIST), ISSN: 2319:2682, Vol. 23, No.23, March **2014**, pp. 74-79.
- 163 Karthikeyan N, Devarajan N, “Optimal Placement of Phasor Measurement Unit for complete and Incomplete Observability : An Integer Linear Programming Approach”, International Journal of Advanced Information Science and Technology (IJAIST), ISSN: 2319:2682, Vol. 23, No.23, March **2014**, pp. 7-13.
- 164 Angeline Vijula D, Devarajan N, “Design of Optimized PI Controller with ideal Decoupler for a non linear multivariable system using Particle Swarm Optimization Technique”, International Journal of Innovative Computing, Information and Control, Vol. 10, No.1, **2014**, pp. 341- 355.
- 165 Angeline Vijula D, Devarajan N, “Decentralized PI controller design for non linear multivariable systems based on ideal decoupler”, Journal of Theoretical and Applied Information Technology, Vol. 64, No.2, **June 2014**, pp. 568 - 574.
- 166 Rukkumani V, Devarajan N, ‘ Design and Analysis of SRAM Cell for Ultra Low Voltage Deviation ’ Australian Journal of Basic and Applied Sciences, Vol. 8, No. 13, **August 2014**, pp 41 – 50.

- 167 Umamaheswari K, Devarajan N, “Incorporated Renewal Energy System for Rural Electrification” Journal of Electrical Engineering, Vol.14, Edition 2, **2014**, pp1-19.
- 168 Manoharan K, Devarajan N, “Image Processing of Human Lumbar Spine during Manual Lifting of Loads using Ant Colony Optimization Algorithm- An Ergonomic Study”, International Journal of Applied Engineering Research, Vol. 9, No. 22, **2014**, pp. 17689-17702
- 169 Rukkumani V, Devarajan N, ‘Reduction of Power in Decoder and Sense Amplifier Circuit of 10T SRAM Cell ’ International Journal of Applied Engineering Research, Vol.9, No. 23, **2014**, pp. 23421 – 23433.
- 170 Rukkumani V, Devarajan N, ‘ Power Efficient Design of Amplifier using Submicron Technology ’ International Journal of Mechanisms and Robotic Systems , Inderscience Publishers, Vol.2, No. 1, **2014**, pp. 1 – 16.
- 171 Angeline Vijula, D , Devarajan, N , ‘Model predictive control design for a non linear multivariable system with a transmission zero’, International Journal of Control Theory and Applications, **2014**,vol. 7, no. 2, pp. 73-83.
- 172 Vijayakumari A, Devarajan N, ‘ Decoupled Control of Grid Connected Inverter with Dynamic Online Grid Impedance Measurements for Micro Grid Applications’ International Journal of Electrical Power and Energy Systems, **ELSEVIER**, Vol. 68, **Jan. 2015**, pp. 1 – 14.
- 173 Vijayakumari A, Devarajan N, ‘Effect of Grid Impedance Variation on the Control of Grid Connected Converter with Synchronous Reference Frame Controllers in Micro Grids’ **Springer**, Lecture Notes in Electrical Engineering, Vol. 326, **2015**, pp.1297-1307
- 174 Rukkumani V, Devarajan N, ‘Design of Low Power Write Driver Circuit for 10T SRAM Cell ’ APRN Journal of Engineering and Applied Sciences, Vol.10, No.1, **January 2015** , pp. 139-145.
- 175 Umamaheswari K, Devarajan N, ‘Renewable energy Based electrification for rural Area Education Institutions-A Case Study’ International Journal of Applied engineering Research , ISSN 0973-4562 Vol.10, N0.39, **2015**, pp. 29446-29451.
- 176 Umamaheswari N, Devarajan N, ‘Comparative study of effective wind power predication methods with optimization algorithms for optimal economic dispatch of multiple fuel power plants’ARPN Journal of Engineering and Applied Sciences, Vol.10, N0.9, **May 2015**. ISSN1819-6608, pp.3930-3935.
- 177 Pushba N, Devarajan N, ‘Enhancement of stability and LVRT capability in DFIG based wind farm using SMES and SFCL’ journal of information knowledge and research in Electrical Engineering, ISSN: 0975- 6736/ NOV 14 to OCT 15/ Vol. 03 , Issue 02,**2015**, pp. 458-462

- 178 Vinisha P , Maruthupandi P, Devarajan N,” Performance Comparison of Controllers for Photovoltaic Systems” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol: 10, No 55, **2015**, pp. 836- 841
- 179 Geetha V, Devarajan N, Neelakantan,P.N, ‘Network Structure for Testability Improvement in Exclusive-OR Sum of Products Reed-Muller Canonical Circuits’, International Journal of Engineering Research and General Science, Vol. 3, Issue. 3 , May-June **2015**, pp 368-378.
- 180 Ramalingam P, Ranjithkumar K, Devarajan N, “Performance Analysis of Multi level Cascaded Quasi Z- source inverter using Carrier Based PWM Techniques for Photovoltaic applications” International Journal of Applied Research, Vol. 10. No. 55, **2015**, pp 3525-3530.
- 181 Ranjithkumar K, Suganthi Mary S, Devarajan N, “ PV based SEPIC converter with MPPT techniques for grid connected system” International Journal of Applied Engineering Research Vol.10, No. 49, **2015**, ISSN 0973-4562 pp 392-398
- 182 Rukkumani V, Devarajan N, ‘Design and Analysis of 8T/10T SRAM Cell Using Charge Recycling Logic ’ International Journal of Computer Science Engineering, Vol.4, No. 4, July **2015**, pp. 166 –172.
- 183 Rukkumani V, Devarajan N, ‘Temperature Oriented Design of SRAM Cell Using Technology’ International Journal of Computer Applications, Vol.122, No. 15, **July 2015**, pp. 19 – 23.
- 184 Venkatesan.M, Rajeswari.R ,Devarajan.N, , ‘A Fuzzy Logic Based Three Phase Inverter with Single DC Source for Grid Connected PV System Employing Three Phase Transformer’, International Journal of Renewable Energy Research, Vol.5, No.3, **2015**, pp.739-745.
- 185 Arunkumar G, Devarajan N, ‘Enhancement of Transient Stability in Power Transmission Network using FACTS Devices’ Journal of Applied Sciences Research, Vol.11, N0.19, Nov. **2015**. ISSN1819-544X, pp.111-117.
- 186 Vijayakumari A, Devarajan N, ‘ Model Parameter Extraction for Commercial Photovoltaic Modules using Only their Cell Characteristics’ Journal of Engineering Science & Technology(JESTEC), School of Engineering, Taylor’s University, Malaysia.(**accepted**)
- 187 Vijayakumari A, Devarajan N, ‘ Maximum Power Point Tracking of PV Array using Short Circuit and Open Circuit Values for a Single-stage Three-phase Grid Connected Inverter’ International Journal of Renewable Energy, **ELSEVIER**, (communicated).
- 188 Venkatesan.M, Rajeswari.R ,Devarajan.N, , ‘Implementation of Modified SVPWM based Three Phase Inverter with Reduced Switches using a Single DC Source for Grid Connected PV System’, Turkish Journal of Electrical Engineering and Computer Sciences, Vol., No., **2015**, pp .(**Accepted**)

- 189 Umamaheswari N, Devarajan N, 'Hybrid Weighted Probabilistic Neural Network and Biogeography based Optimization for Dynamic Economic Dispatch of Integrated Multiple Fuel and Wind Power Plants' International Journal of Electrical Power and Energy Systems, **ELSEVIER**, Vol., No., **2015. (Accepted)**
- 190 Umamaheswari K, Devarajan N, "A Refined Teaching-Learning Optimization Algorithm and ELMAN Neural Networks for Dynamic Economic Dispatch of Integrated Multiple-fuel and wind power plants", IETE Journal of Research.(under Review)

ANNEXURE-II

RESEARCH PUBLICATIONS IN CONFERENCES

1. N.Devarajan, S.N. Sivanandam, “A Test Procedure for Stability Analysis of Linear Time Invariant Discrete Systems”, National System Conference, NSC-96 Proceedings, Vikram Sarabhai Space Centre, Trivandrum, pp.311-315, December **1996**.
2. N.Devarajan, S.N. Sivanandam, “Simple and Direct Methods for Model Reduction of Linear Time Invariant Discrete Systems”, National System Conference, NSC-96 Proceedings, Vikram Sarabhai Space Centre, Trivandrum, pp.124-129, December **1996**.
3. N. Devarajan , S.N. Sivanandam , “Model Reduction of Linear Discrete Systems using Routh Array” , National System Conference, NSC-98 Proceedings, REC, Calicut pp.123-128, December **1998**.
4. N.Devarajan, S.N. Sivanandam, “An Amplitude Matching Procedure for Constructing a Second Order Model of Linear Higher Order Discrete Systems”, National System Conference, NSC-98 Proceedings, REC, Calicut pp.99-104, December **1998**.
5. N. Devarajan , S.N. Sivanandam , , “Computer Aided Lower Order Modeling of Higher Order Multi input Multi output Linear Discrete Systems” , Proceedings of Inter national Conference on Cognitive Systems, ICCS-98, NIIT,New Delhi,pp682-690,December-**1998**.
6. N.Devarajan , S.N.Sivanandam , “Sub optimal Control using Reduced Order Model”, Proceedings of International Conference on Intelligent Flexible Autonomous Manufacturing Systems, IFAMS-2000, CIT, Coimbatore, pp 726-733, January,**2000**.
7. N.Devarajan, K.J.Poornaselvan, S.N. Sivanandam , “Design of Controller and Compensator for Stabilization of Linear Time Invariant Continuous Systems”, Proceedings of National Conference on Power Conversion and IndustrialControls, NSS College of Engineering, Palakkad , January, **2003**.
8. N.Devarajan , S.N.Sivanandam , K.J.Poornaselvan , R.Prasanna , “Analysis and Design of Linear Time Invariant Systems using Symbolic Algebra”, **48 th International Midwest Symposium on Circuits and Systems, Egypt, December 2003**.
9. N. Devarajan , D.Somasundareswari , S.N. Sivanandam , “ Designing Fuzzy Logic Fault Detector with Hybrid Membership Function” , Proceedings of National Conference on Power Conversion and Industrial Controls, NSS College of Engineering, Palakkad, January, **2003**.
10. N. Devarajan , D.Somasundareswari ,S.N. Sivanandam , V. Duraisamy , “ A Simulation Approach in Designing Fuzzy Controller for Fault Diagnosis in Electrical Machinery”, Proceedings of International Conference on Advanced Computing, PSG CT , January **2004**.
11. N. Devarajan , D.Somasundareswari , Dr.S.N.Sivanandam , V. Duraisamy , “Design and Simulation of Fuzzy Logic Fault Detector with Different Membership Function”, Proceedings of National Conference on Instrumentation and Control, NIT, January **2004**.

12. N.Devarajan , V.Geetha , G.Balachandar , “An Efficient Method of High Power Converter Design” , Proceedings of National Conference on Power Conversion and Industrial Controls, NSS College of Engineering, Palakkad, January **2004**.
13. N.Devarajan , K.J.Poornaselvan , S.N.Sivanandam , M.Banurekha, “ Design of IMC-PID Controller using Symbolic Math Algebra” , Proceedings of NCAC 2004, PSG College of Technology, India ,**2004**.
14. N.Devarajan ,K.J.Poornaselvan ,R.Balamurugan,“ Elimination of Torque Ripples of Permanent Magnet AC motors using Internal Model Controller”, Proceedings of NCAC 2004, PSG College of Technology, India,**2004**.
15. N.Devarajan , V.Geetha , D.Madhan Mohan , “Direct Torque Control with Stator Resistance Tuning” , Proceedings of National Conference on Emerging Trends in Engineering and Technology, Dr.MGR Deemed University, Chennai , May, **2004**.
16. N.Devarajan , K.J.Poornaselvan , R.Preethi , R.Prasanna , “Application of Symbolic Algebra in System Stabilization and Control” , **IECON '04, Pusan, North Korea, 2004**.
17. N.Devarajan , K.J.Poornaselvan , R.Balamurugan , “Comparison of Induction Motor Torque control Schemes in Electrical Vehicle Applications” , **48th IEEE International Midwest Symposium on circuits and systems, Ohio , 2004**.
18. N.Devarajan , K.J.Poornaselvan , R.Balamurugan , “Performance Enhancement of AC - PM Motors Control Systems using High Quality Rectifier and Internal Model Principle” , Proceedings of INCON 2004, Pune , India ,**2004**.
19. Dr.N.Devarajan,K.J.Poornaselvan,R.Preethi, ” Design of IMC-PID controller using symbolic math algebra” National Conference on emerging trends in Engineering and technology, Dr.M.G.R. Deemed University, Chennai.(**2004**).
20. Dr.N.Devarajan , K.J.Poornaselvan , R.Balamurugan , “Design of an Internal Model principle based speed controller for PMSM”, Proceedings of ICHMI **2004**, Bangalore, India.
21. N.Devarajan , V.Duraisamy , A.Antony Maria vasanth , “Fault Detection Scheme for Power Transformer” , Proceedings of National Conference on Power Electronics and Power Systems,St.Joseph College of Engineering,Chennai, January,**2005**.
22. N. Devarajan , V. Duraisamy , D.Somasundareswari , P.Charulatha , “An Adaptive Neuro fuzzy Approach for online Stator Winding Fault Detection Scheme for Induction Machines” , Proceedings of National Conference on Power Electronics and Power Systems, St.Joseph College of Engineering,Chennai , January, **2005**.
23. N. Devarajan , V. Duraisamy , D.Somasundareswari , J.Deivamuthu , “A Fuzzy Controller to Enhance Transient Stability using Braking Resistor” , Proceedings of National Conference on Power Electronics and Power Systems, St.Joseph College of Engg.,Chennai, January, **2005**.

24. N. Devarajan , V. Duraisamy , R.Dhanalakshmi , “Neural Network Based Fault Detection Scheme for Voltage Fed Induction Machine” , Proceedings on National Conference on Modern Trends in Electrical and Instrumentation systems, Govt. College of Tech., Coimbatore , March, **2005**.
25. N.Devarajan , P.Lavanya , “Optimal Power flow with SVC and UPFC Modeling by Evolutionary Computation” , Proceedings of PCID 2005, Bannari Amman Institute of Technology Sathyamangalam , **2005**.
26. N.Devarajan , V.Duraisamy , A.Antony Maria Vasanth , “A New Fuzzy-PID Hybrid Controller for DC-DC Converter” , Proceedings of RTST 2005,M.G.R Deemed University,Chennai , **2005**.
27. N. Devarajan , K.P.Selvan , S.Pozhilan , “Modeling and Controlling of BLDC Motor in MATLAB Simulink” , Proceedings of IUPE 2005,Cork Institute of Technology, Ireland , **2005**.
28. N. Devarajan , K.P Selvan , S.Pozhilan , “Modeling of BLDC Motor” , Proceedings of NCMVEEE,2005,Vivekanantha College of Engg for women-Tiruchengodu , **2005**.
29. N. Devarajan , Selvan K.P , ”Modeling and Regulated Speed Control of BLDC Motor” , Proceedings of PEPS 2005,St.Joseph College of Engg, Chennai , **2005**.
30. N. Devarajan , Selvan K.P , “Modeling and Sensor less Control of BLDC Motor with Improved Speed Range” ,Proceedings of NCEED, Gandhi Institute of Technology-Visakaptnam , **2005**.
31. N.Devarajan , T.Manikantan , P.Gomathi , “An Algebraic Method for Linear System Model Reduction” , Proceedings of NAPCED –05, GCE, Tirunelveli , **2005**.
32. N.Devarajan , K.J.Poornaselvan , S.N.Sivanandam , M.Banurekha , “New Scheme for Identification of Power Station Process” , 48 th International Midwest Symposium on Circuits and Systems, Ohio, August **2005**.
33. N.Devarajan , B.Saravanakumar , “Faults Diagnosis in Vehicle Engine by Time Frequency Analysis” , Proceedings of NIICECON, NIT, Trichy ,December **2005**.
34. N.Devarajan , K.J.Poornaselvan , R.Shanmuga Sundaram , “Comparative Evaluation of Control Strategies for Shunt Active Filter” , National Conference on Power Electronics and Power Systems (ETEE 2005), St. Joseph’s College of Engineering, Chennai , **2005**.
35. N.Devarajan , K.J.Poornaselvan , R.Shanmuga Sundaram , “PI Control of Shunt Active Power Filter for Power Quality Improvement” , First National Conference on Emerging Technologies in Electrical Systems (STES 2005). Noorul Islam College of Engineering, Kumaracoil ,**2005**.
36. N.Devarajan , K.J.Poornaselvan , R.Shanmuga Sundaram , “A Control Algorithm for Shunt Active Power Filter Under Non-ideal Mains Voltage” , First National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives (PCID 2005), BIT, Sathyamangalam , **2005**.

37. N.Devarajan , K.J.Poornaselvan , R.Shanmuga Sundaram , “A Comparative Analysis of Reference Compensating Current Estimation Techniques for Shunt Active Filter”, **International Conference on Energy and Power Systems, Krabi, Thailand, 2005.**
38. N.Devarajan , K.J.Poornaselvan , R.Shanmuga Sundaram , “Simulation of Three phase Shunt Active Power Filter using Deadbeat Control Algorithm” , **International Conference on Energy and Power Systems, Benalmadena, Spain , 2005.**
39. N.Devarajan , K.J.Poornaselvan , R.Shanmuga Sundaram , “A Control Algorithm for Hybrid Power Filter under Non-ideal Mains Voltage” , **International Conference on Control Automation and Systems (ICCAS 2005) Gyeonggi-do, Korea , 2005.**
40. N.Devarajan , K.J.Poornaselvan , R.Shanmuga Sundaram , “A New Control Algorithm for Shunt Active Filter under Distorted Mains Voltage” , **Compatibility in Power Electronics Conference , Glynia, Poland , 2005.**
41. N.Devarajan , K.J.Poornaselvan , S.N.Sivanandam , R.Prasanna, “Analysis and Design of LTI Systems using Symbolic Algebra” **IEEE International Conference on Circuits and Systems, Cairo, Egypt , 2005.**
42. N.Devarajan , K.J.Poornaselvan , R.Preethi , R.Prasanna , “Symbolic Computation in System Stabilization and Control” , **IEEE TENCON Thailand , 2005.**
43. Dr.N. Devarajan, K.J.Poornaselvan , M.Vanitha,” Unit commitment using hybrid heuristic techniques”, Proceedings on National conference on Modern trends in Electrical and Instrumentation systems,Govt.college of Tech., Coimbatore,**2005.**
44. Dr.N. Devarajan, V.Geetha ,N.Anitha, “Fuzzy logic based direct torque control of induction motor drive”, Proceedings on National conference on Modern trends in Electrical and Instrumentation systems,Govt.college of Tech., Coimbatore,**2005.**
45. Dr.N.Devarajan,R.Jayabarathi,” Reactive power compensation and voltage control in radial feeders-Using Artificial Neural Network based controllers”, International Conference on Emerging technologies in Intelligent system and control, Kumaraguru College of Technology, Coimbatore, **2005.**
46. Dr.N.Devarajan,R.Jayabarathi,” ANN-GA based optimal reactive power management in radial system-A comparative study”, Proceedings of Third National conference on Power conversion and Industrial controls, NSS College of Engineering,Palakkad,Kerala, **2005.**
47. N. Devarajan, V.Geetha, S.Selvaraj, “ Online Tuning of the Induction Motor Rotor Time Constant by EKF Algorithm”, International Conference for Upcoming Engineers ICUE,**2005.**
48. N. Devarajan, V.Geetha,N.Anitha, “Neuro-Fuzzy Control of Direct Torque Controlled Induction Motor Drives”, Proceedings of National Conference on Power Electronics and Power System,**2005.**
49. N. Devarajan, V.Geetha, N.Anitha, “Neuro-Fuzzy Control of Direct Torque Controlled Induction Motor Drives with Stator Resistance Tuning”, Proceedings of Second National Conference on Intelligent and Efficient Electrical System, **2005.**

50. N. Devarajan, V.Geetha, B.Charanya, "Fuzzy Based Voltage Stability Analysis of Radial Distribution Networks", Proceedings of Second National Conference on Intelligent and Efficient Electrical System, **2005**.
51. N.Devarajan , V.Manikandan , G.Manavalan , "Neural Network Based Multiple Fault Diagnosis in Analog Circuits" , International Conference on Resource Utilisation and Intelligent Systems, Kongu Engg. College , Perundurai , Jan. **2006**.
52. N.Devarajan , S.Lakshmi Kanthan Bharatni , "Particle Swarm Optimization for Optimal Power Flow" , Proceedings of IICA, CIT,Coimbatore , **2006**.
53. N.Devarajan , S.Lakshmi Kanthan Bharatni , "Optimal Power Generation using PSOPC" Proceedings of NCMPTS, Noorul Islam Engg.College , **2006**.
54. N.Devarajan , B.Saravanakumar , "Neural Network Based Vehicle Engine Fault Diagnosis"Proceedings of NCEES , GCE ,Salem , March , **2006** .
55. N.Devarajan , S.Lakshmi Kanthan Bharatni , "Optimal Power Flow Using Particle Swarm Optimization with Passive Congregation" , Proceedings of NCRTPSD APRIL 2006, SSN Engg. College,Chennai ,April **2006**.
56. N.Devarajan , S.Lakshmi Kanthan Bharatni , "A Novel Approach for Optimal Power Flow" , Proceedings of PCTCON'06 ,PSNA Engg. College, Dindugul, March **2006**.
57. N.Devarajan , S.Abiramisundari , "Analysis of Space Vector Modulation and Three Phase Career Based PWM", Proceedings of NCRTPSD, SSN Engg. College,Chennai, April,**2006**.
58. N.Devarajan , S.Abiramisundari , "Space Vector Modulation and Three phase Career Based PWM-Comprehension Analysis" , Proceedings of NCEES , GCE Salem , March,**2006**.
59. N.Devarajan , B.Saravanakumar , "Noise Signature Based Analysis of Vehicle Engine Faults using Neural Network" , Proceedings of First NCETIS, Sri Ramakrishna Engg. College, Coimbatore , January **2006**.
60. N.Devarajan , B.Saravanakumar , "Noise Signature Based Analysis of Vehicle Engine Faults using Principal Component Analysis" , Proceedings of NCTICAE-06,Sathyabama Institute of Science and Tech. Chennai ,March , **2006**.
61. N.Devarajan , S.Lakshmi Kanthan Bharatni , "Optimal power Generation using PSOPC" Proceedings of NCEES , GCE ,Salem , March , **2006**.
62. N.Devarajan , V.Manikandan , B.Senthilnathanbalan , "A Monte Carlo Application to Soft Fault Diagnosis in Analog Electronic Circuits Using Graphical Method", International Conference on Nanotechnology Materials and Methods, CIT. Coimbatore , **June 2006**.
63. N.Devarajan , V.Manikandan, "Soft Fault Diagnosis in Analog Electronic Circuits Using Graphical Method" , **IEEE International Conference on Industrial Technology, IIT, Bombay, Dec. 2006**.
64. N.Devarajan , V.Manikandan , "A Diagonosis Approach for Parameter Deviations in Linear Dynamical Systems Using ANN", **IEEE International Conference on Industrial Technology ,IIT, Bombay, Dec. 2006**.

65. N.Devarajan,R.Jayabarathi, “Development of a Laboratory Model of a Hybrid Static Var Compensator”, **IEEE power India Conference**, New Delhi,**2006**.
66. N. Devarajan , V.Geetha ,C.Sarath babu, “Variable Structure Direct Torque Control of Sensor less Induction Motor Drives using Sliding Mode Method” , Proceedings of National Conference on Exploring New Frontiers in Power Conversion Technology,PCTON,**2006**.
67. N. Devarajan ,Ms.V.Geetha ,C.Sarath babu, “A Novel thyristor based single phase input brushless DC motor for low cost applications” , National conference on recent trends in power system and drives. NCRTPSD, **2006**.
68. N. Devarajan ,Ms.V.Geetha ,C.Sarath babu, “Direct Torque control of sensorless induction motor drives using sliding mode method” , National conference on recent trends in power system and drives. NCRTPSD,**2006**.
69. N.Devarajan ,G.Thenmozhi , “Modified Bus clamping PWM for the reduction of total harmonic distortion” , Proceedings of National conference on recent advances in computer vision and information Technology, NCVIT 2007 ,Govt.college of Tech., Coimbatore, **2007**.
70. N.Devarajan ,V.Prasannamoorthy, S.Bhavani, “Sensorless control of brushless DC motor using RLS” , Proceedings of National conference on recent advances in computer vision and information Technology, NCVIT 2007 ,Govt.college of Tech., Coimbatore, **2007**.
71. N.Devarajan ,R.Vijayabhasker , “Simulation of single phase power factor pre-regulator”, Proceedings of National conference on recent advances in computer vision and information Technology, NCVIT 2007 ,Govt.college of Tech., Coimbatore, **2007**.
72. N.Devarajan ,R.Vijayabhasker , “An average current control mode of Active power factor corrector” , Proceedings of National conference on recent trends in Electrical Engineering RTEE `07,K.S.R.College of Tech., Tiruchengode **2007**.
73. N.Devarajan ,R.Vijayabhasker , “Data Flow Architecture in Power Electronics system control software design” , Proceedings of National conference on Intelligent Computing Techniques for Regulated and Deregulated Power Systems INCOT`07,Karunya University, Coimbatore, **2007**.
74. N.Devarajan ,N.Viji Prabha ,” Power Distribution Systems Planning Using Fuzzy Based TABU search Algorithm” Proceedings of National conference on Intelligent Computing Techniques for Regulated and Deregulated Power Systems INCOT`07,Karunya University, Coimbatore, **2007**.
75. N.Devarajan ,V.Prasanna Moorthy ,M.Nagarajeshwar ,”, “SRM Controller Design with Maximization of Torque per Ampere Using Voltage and Current Constraint for Servo Applications” Proceedings of National conference on Power Electronics and Intelligent Control NCPEIC - `07,Malaviya National Institute of Technology, Jaipur , **2007**.
76. N.Devarajan ,V.Prasanna Moorthy , S.Bhavani,” Sensorless Control of Brushless DC Motor Using MMRAS”, Proceedings of National conference on Power Electronics and Intelligent Control NCPEIC -`07,Malaviya National Institute of Technology, Jaipur **2007**.

77. N.Devarajan ,R.Vijayabhasker, “Simulation of soft switching circuit for interleaved boost converters” , Proceedings of Third National conference on Emerging Trends in Electrical Engineering and Power Drives NACPED- 07 ,Govt. College of Engg. Tirunelveli, **2007**.
78. N.Devarajan ,G.Thenmozhi, “Space Vector Based Modified Bus Clamping PWM for Reduced Current Ripple” , Proceedings of Third National conference on Emerging Trends in Electrical Engineering and Power Drives ,NACPED- 07 ,Govt. College of Engg. Tirunelveli, **2007**.
79. N.Devarajan ,V.Prasanna Moorthy ,R.Anand, “High Power Factor –Boost Converter” , Proceedings of Third National conference on Emerging Trends in Electrical Engineering and Power Drives NACPED- 07 ,Govt. College of Engg. Tirunelveli, **2007**.
80. N.Devarajan ,G. Sivagnanam ,” The Dynamic Simulation of the Impact of Distributed Generation on An Electric Distribution System” , Proceedings of Third National conference on Emerging Trends in Electrical Engineering and Power Drives NACPED- 07 ,Govt. College of Engg. Tirunelveli, **2007**.
81. N.Devarajan ,N.Viji Prabha ,” Fuzzy Optimal Planning of Power Distribution Systems using TABU Search Algorithm” , Proceedings of Third National conference on Emerging Trends in Electrical Engineering and Power Drives NACPED- 07 ,Govt. College of Engg. Tirunelveli, **2007**.
82. N.Devarajan, R.Vijayabhasker , “Simulation of a Novel CSI fed Induction Motor”, Proceedings of National conference on Innovations in Electrical, Electronics and Control systems IEECONS -07, Kumaraguru College of Technology,Coimbatore, **2007**.
83. N.Devarajan, V.Prasanna Moorthy,S.Bhavani,” Sensorless Speed Control of brushless dc Motor using MMRAS and Torque Observer “,Proceedings of National Conference on Electrical Systems and Control Technologies ESCT 2007, National Institute of Technlogy, Calicut, Kerala, **2007**.
84. N. Devarajan, G.Sivagnanam, ” A genetic algorithm for solving the optimal power flow problem”, National conference on emerging technologies,**2007**.
85. N.Devarajan,V.Prasanna Moorthy,M.Nagarajeshwar,” SRM drive for Servo applications considering Practical Issues “,Proceedings of National Conference on Electrical Systems and Control Technologies ESCT 2007, National Institute of Technlogy, Calicut, Kerala, **2007**.
86. N. Devarajan,V.Geetha,J.sathish kumar, “A modified direct torque control of induction motor using SVM technique”,International conference on modeling and simulation,Coimbatore ,**2007**.
87. N.Devarajan, S.Manoharan, M.Deivashayam, G.Ranganathan, “Measurement and Improvement of Induction Motor Efficiencies in Accordance with International standards” International conference on “Recent Advancement and Applications of Computer in Electrical Engineering” March 24-25, **2007**.
88. N.Devarajan,.V.Geetha,A.Rathinagracionica,“Dynamic simulation of load frequency control”, National conference on recent trends in instrumentation system design and automation, Karunya.

89. N.Devarajan,D.Sivasankar,” HPSO &GA technique for solving the economic dispatch considering the generator constraints”, Proceedings of National Conference on innovative techniques in power engineering & drives ,Velammai Engineering College,Chennai, March **2008**.
90. N.Devarajan,D.Sivasankar,” Modified particle swarm optimization technique using higher order cost polynomial for economic load dispatch”, Proceedings of First National Conference on Current trends towards converging Technologies CTCT ‘08, CIET,Coimbatore, March **2008**.
91. N.Devarajan,T.Prabu,” Power quality improvement for varying loads using 30 pulse AC-DC converter”, Proceedings of First National Conference on Current trends towards converging Technologies CTCT ‘08, CIET,Coimbatore, March **2008**.
92. N.Devarajan,T.S.Prabhukumar,” Fuzzy logic based indirect vector control of induction motor drives”, Proceedings of First National Conference on Current trends towards converging Technologies CTCT ‘08, CIET,Coimbatore, **2008**.
93. N.Devarajan,M.Yuvaraj,” Routing in adhoc networks using minimum connected dominating sets” , Proceedings of First National Conference on Current trends towards converging Technologies CTCT ‘08, CIET,Coimbatore, March **2008**.
94. N.Devarajan,D.Sivasankar,” Modified PSO &GA Technique for Solving the Economic Dispatch Considering the Generator Constraints”, Proceedings of National Conference on Extreme Engineering and Technological Advancements, Jayam College of Engineering &Technology, Dharmapuri April **2008**.
95. N.Devarajan,M. Yuvaraj,” Novel Routing Algorithms for Wireless Networked Control Systems”, Proceedings of 2nd Inter- National Conference on Intelligent Systems and Control , ISCO 2008, Karpagam College of Engineering, Coimbatore, **2008**.
96. N.Devarajan,Hemarajini Christi,V.Prasana moorthy, “Fault Diagonisis for Analog Electronics Circuit using Frequency Response Analysis”,Proceedings of National Conference on Emerging trends in Power Electronics and Power System,**2008**.
97. N.Devarajan,Hemanath.B,V.Manikandan,V.Prasanamoorthy, “Novel Technique for Voltage stability Enhancement using PSAT”, Innovation in Electrical Electronics and Control System IEECONS,**2008**.
98. N.Devarajan, V.Geetha, C.Barathiraja, “The Dynamic Simulation of the Three Phase Brushless Permanent Magnet AC Motor Drives using Lab view”, National Conference on Current Trends Towards Converging Technologies,CTCT,**2008**.
99. N.Devarajan, M.Senthamilselvi, “Energy Efficient Distributed Connected Coverage Algorithms with dynamic Coverage Maintenance in Wireless Sensor networks” **IEEE International Advance Computing Conference (IACC 2009), March 2009**.

100. N.Devarajan, V.Prassana Moorthy, R.Bharat Ram “Fuzzy based time domain Analysis approach for fault Diagnosis of Analog Electronic circuits” International conference on Control, Automation, Communication and Energy Conversion-2009. Kongu Engineering College, perundurai, Erode, 4-6 June, **2009**,pp.278-284.
101. N.Devarajan, V.Prassana Moorthy, M.Vidhyadevi, “ANN Based Novel Time Domain Analysis Approach for Fault Diagnosis of Analog Electronic Circuit” International conference on Sensors, Security, Software and Intelligent Systems, ISSIS **2009**.
102. N.Devarajan, V.Prassana Moorthy, M. Thangadurai, “Optimal Control of Doubly Fed Induction Generator based Wind Turbine Systems” National conference on Computation, Control and Communication Systems, NCCCS’09, March **2009**.
103. N.Devarajan, V.Prassana Moorthy, M. Amarnath, “Performance of Multi machine power system Stability Using Fuzzy logic stabilizer” National conference on Computation, Control and Communication Systems,NCCCS’09, March **2009**.
104. N.Devarajan, M.Baskaran, “A Full Bridge Resonant Inverter with Symmetrical PSM for High Frequency AC Power Distribution Systems” National conference on Computation, Control and Communication Systems, NCCCS’09, March **2009**.
105. N.Devarajan, T.Ramesh, “Single Phase Grid Connected Photovoltaic/wind Power system Using CML Inverter” National conference on Advanced Computing in Computer Applications, NCACCA, March **2009**.
106. N.Devarajan, M.Sivalingam, “Current Control in Blde Motor Using Labview” National conference on Computation ,Control and Communication Systems, NCCCS’09, March **2009**.
107. N.Devarajan, Mahamoodkhan Pathan, “Single phase operation of three phase induction motor using Electronically controlled Capacitor” National conference on Innovations in Electrical, Electronics and Control Systems, IEECONS-**2009**.
108. N.Devarajan, Mahamoodkhan Pathan, “ Hardware Implementation of Single phase operation of three phase induction motor using Electronically controlled Capacitor with Different Configurations” National conference on Future of Electrical and Instrumentation Technology, ECLECTIC’09. **2009**.
109. N.Devarajan, G.V.Bearlin, “ A Novel three Phase DC-DC Converter for high power applications using Soft switching Technique” National conference on Recent trends in Computing Technologies-09, NCRTCT-09. **2009**.
110. N.Devarajan, P.Maruthupandi, “ Novel Harmonic Elimination Technique using Fuzzy logic controller in sinusoidal pulse with Modulated Cascaded Multilevel inverter” **IEEE -18th Annual Symposium on Emerging needs in computing, Communication, Signals and Power, ENC²SP 2009**.
111. N.Devarajan, M.Baskaran, “ SV-PWM Switching Strategy for Dynamic Balancing of Zero sequence current for a Dual Inverter fed open end winding Induction Motor”, National conference on Future of Electrical and Instrumentation technology, ECLECTIC’-**2009**.

112. N.Devarajan, Bearlin.G.V, “ Implementation of Voltage Clamped DC-DC Converter with Reduced reverse recovery current” National conference on Future of Electrical and Instrumentation technology, ECLECTIC’2009.
113. N.Devarajan, Sivalingam.M, “ Digital Generator control unit for high speed brushless Generator in aircraft” National conference on Future of Electrical and Instrumentation Technology, ECLECTIC’2009.
114. N.Devarajan, Balaji.E, “ Space Vector Modulation Based Virtual –Flux direct Power Control for Grid Connected three-phase Inverter System” National conference on Signal Processing Communications and VLSI Design, NCSCV’09. 2009.
115. N.Devarajan, Vidhyadevi.M, “ ANN Based novel time Domain Analysis Approach for fault Diagnosis of Analog Electronic Circuit” National conference on Signal Processing Communications and VLSI Design, NCSCV’09. 2009.
116. N.Devarajan, D.Chitra, T.Manigandan, K.R.Kannan “ Object Recognition Using Euclidean Distance with Hungarian Algorithm” International conference on Emerging and Futuristic system and Technology, ICE-FST’09. 2009.
117. N.Devarajan, M.Karpagam,“ A Comparison of Soft Switched DC-DC Converters for High Power Application” International conference on Electrical Energy Systems and Power Electronics in emerging Economies, 2009.
118. N.Devarajan, D.Chitra, T.Manigandan, “ Shape Matching and Object Recognition Using Dissimilarity measures with Hungarian Algorithm” **International Conference on Man Machine Systems[ICOMMS2009], Universiti Malaysia Perlis, Malaysia, 2009.**
119. N.Devarajan, P.Gomathi, T.Manigandan, “ Design of neural PID controller for reduced order model”**International Conference on Man Machine Systems[ICOMMS2009] Universiti Malaysia Perlis, Malaysia, 2009.**
120. N.Devarajan, Prawin Angel Michael,” SVPWM Pattern Generator using Field Programmable Gate Array Implementation” **International Conference on Machine Learning and Computing (ICMLC 2009), Perth, Australia , 2009.**
121. N.Devarajan, V.Manigandan, A.Kavithamani, “Analog Circuit Diagnosis Based on Bandwidth and Fuzzy Classifier”**International Conference on Emerging Technologies For sustainable Development (IEEE TENCON 2009) Singapore, November 2009.**
122. N.Devarajan, S.Anila, “An Efficient Image Compression Technique Using Peak Transform”**International Conference on Computer Technology and Development (ICCTD 2009) IEEE ComputerSociety,Kota Kinabalu,Malaysia,November 2009.**
123. N.Devarajan, S.Anila, “ Image Enhancement using wavelets for improving face detection” , Proceedings of the 4th Indian International Conference on Artificial Intelligence(IICAI - 09), 16-18 December 2009, Tumkur, pp.1794 – 1801, 2009.

124. N.Devarajan, V.Vanitha, "Fuzzy Based Grid Voltage Stabilization in a Wind Form Using Static VAR Compensator" International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom 2009, Kottayam, Kerala, **October 2009**.
125. N.Devarajan, Prawin Angel Michael, "Multi loop control for single phase boost type SMR" International Conference on Power, Control, Signals and Computation, EPSCICON 2010 Vidya Academy of Science and Technology, Thrissur, January **2010**.
126. N.Devarajan, B.Sharmila, "Gain Adaption for Networked DC Motor Controllers" International Conference on Recent Advancements in Electrical Sciences, ICRAES'10 K.S.R College of Engineering, Tiruchengode January **2010**.
127. N.Devarajan, B.Sharmila, "Delay Control Methodologies in Networked Control Systems", International Conference on Intelligent Systems and Control, ISCO'10, Karpagam College of Engineering, Coimbatore, February **2010**.
128. N.Devarajan, J.Chitra, "A New Advanced Genetic Algorithm for Optimal Unit Commitment of Power System", National Conference on Industrial Technology, (NCIT'10), BIT, Sathyamangalam, **2010**.
129. N.Devarajan, J.Chitra, "Solving Economic Dispatch using Modified Particle", National Conference on Electrical and Instrumentation Systems, (NCEIS 2010), GCT, 2010
130. N.Devarajan, V.TamilMullai, "Hydrothermal Scheduling Using Particle Swarm Optimization", National Conference on Industrial Technology, (NCIT'10), BIT, Sathyamangalam, **2010**.
131. N.Devarajan, V.TamilMullai, "Solving the Economic Dispatch Problem using Hybrid Particle Swarm Optimization and Differential Evolution", National Conference on Electrical and Instrumentation Systems, (NCEIS 2010), GCT, Coimbatore, **2010**.
132. N.Devarajan, A.Umadevi, "Simulation of a Novel Digital Controller Scheme for Brushless DC Motor Drives", National Conference on Electrical and Instrumentation Systems, (NCEIS 2010), GCT, Coimbatore, **2010**.
133. N.Devarajan, A.Umadevi, "An Effective Novel Digital PWM Controller Scheme for Brushless DC Motor Drives using FPGA", National Conference on Advancements in Intelligent Controller and Optimization Techniques, (AICOT-2010), Sengunthar Engineering College, Tiruchengode, **2010**.
134. N.Devarajan, P.Maruthu Pandi, "Optimization of power quality in cascaded multilevel inverter-Genetic Algorithm Approach", IEEE sponsored International conference on Computing, Communication and Networking Technologies, (ICCCNT2010) Chettinad College of Engineering and Technology, Karur. **2010**.
135. N.Devarajan, V.Vanitha, "Improvement in Transient Stability Margin of a Wind Farm using Static Synchronous Compensator with Super Capacitor Energy Storage System" International conference on Innovative Research in Engineering and Technology, (iCIRET 2010), **2010**, pp1-6.

136. N.Devarajan, P.Maruthu Pandi ,”Estimation of Optimized power quality in microcontroller based cascaded multilevel inverter”, **IEEE Region 8 International conference on Computational Technologies in Electrical and Electronics Engineering,(SIBIRCON-2010) held at Russia during July 11-15, 2010.**
137. N.Devarajan, V.Vijesh, N.Narmadhai “Leakage Current Analysis for Insulator Flashover Prediction Using ANN”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2011), GCT, Coimbatore, **2011.**
138. N.Devarajan, R.Rajaganapathi, “Control and Performance of a Unified Power Flow Controller Connected to a Transmission Line”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2011), GCT, Coimbatore, **2011.**
139. N.Devarajan, S.Suriyakala, “Harmonic Elimination of Multilevel Inverters Using Hybrid GA/PSO Optimization”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2011), GCT, Coimbatore, **2011.**
140. Vanitha V, Devarajan N, “Improvement in Transient Stability Margin of a Wind Farm using Static synchronous compensator with super capacitor energy storage system” International conference on innovative research in Engineering and Technology, (iCIRET2010), **August 2010**, pp 1-6.
141. Devarajan. N, Rajendran R,” FPGA Implementation of Space Vector PWM for Voltage Source Inverter Fed Induction Motor Drive”, **Proceedings of IEEE-ICCEE09 (Second International Conference on Computer and Electrical Engineering, Dubai 09) Vol.2, pp 422-426, 2009, (Indexed in IEEE Computer Society Digital Library).**
142. N.Devarajan, V.Manigandan, A.Kavithamani, “Soft Fault Diagnosis of Analog Circuits”, Proceedings of International Conference: ISSSSIS-2009, Coimbatore Institute of Technology, Coimbatore, India, January 8-10, pp.1-5, **2009.**
143. N.Devarajan, B.Sharmila, “Networked DC Motor Control Using Particle Swarm Optimization ”, Proceedings of International Conference: IEEE TENCON 2011, Bali, Indonesia, November 21-24, pp.167-171, **2011.**
144. N.Devarajan, V.Manigandan, A.Kavithamani, “Soft Fault Diagnosis of Analog Circuits Using Transfer Function Coefficients”, Proceedings of International Conference: PACC2011,Coimbatore Institute of Technology, Coimbatore, India, July 20-22,pp.1-6,**2011.**
145. N.Devarajan, V.Manigandan, A.Kavithamani, K.Ramakrishnan, “Improved Coefficient Based Test for diagnosing Parametric Faults of Analog Circuits”, Proceedings of International Conference: IEEE TENCON 2011, Bali, Indonesia, November 21-24, pp.64-68,**2011.**
146. N.Devarajan, V.Manigandan, A.Kavithamani, K.Ramakrishnan “Soft Fault Diagnosis of Analog Circuits Using Network Parameters and Neutral Networks”, Accepted for International Conference: ICCET 2012, Bangkok, May 12-13, **2012.**

147. N.Devarajan, M.Vasanth,“Optimal Location of STATCOM for voltage Stability Enhancement”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
148. N.Devarajan, M.Gokila ,“Application of Adaptive Filters in Active Power Filters For Source Current Compensation”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
149. N.Devarajan, S.Kandasamy ,“Compensation Of Reactive Power And Harmonics Reduction For Five-Level Shunt Active Filter Using Fuzzy Logic Controller”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
150. N.Devarajan, A.Reena ,“ Reduction of Harmonics Using Fuzzy Logic Controller in Cascaded Multilevel Inverter”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
151. N.Devarajan, P A.Vigneshraja, Prof.V.Geetha ,“ Grid connected Wind turbine generator with real and reactive power flow control”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
152. N.Devarajan, N.Mariappan,V.Prasannamoorthy ,“ A Hybrid Soft Switched CCM Boost Converter Topology for High Voltage Gain ”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
153. N.Devarajan, A.Thiyagarajan,V.Prasannamoorthy ,“ Simulation and Control of Bidirectional Buck boost DC-DC converter for Hybrid Electric Vehicle ”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
154. N.Devarajan, P.Kannan,V.Prasannamoorthy ,“ Solid State fault current limiter for Improvement of Smart Grid Performance”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
155. N.Devarajan, S.Chitra, M.Payani ,“ Comparsion of Load Flow Methods using E-Trap 7.0”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
156. N.Devarajan, S.Chitra, Ashok Reddy Kaki ,“ Fuzzy Logic based speed control of BLDC Motor Drives”, National Conference on Electrical and Instrumentation Systems, (NCEIS 2012), GCT, Coimbatore, **2012.**
157. N.Devarajan, V.Manigandan, A.Kavithamani, K.Ramakrishnan “Soft Fault Diagnosis of Analog Circuits Using Network Parameters and Neutral Networks”, **Accepted for International Conference: ICCET 2012, Bangkok, May 12-13, 2012.**
158. N.Devarajan, S.S.Sivaraju, Fernando J.T.E. Ferreira, “Genetic Algorithm Based Design Optimization of a Three Phase Multiflux Induction Motor ”, **Proceedings of International Conference on Electrical Machines (ICEM 2012), France, September 2-5,IEEE Xplore pp.288-294, 2012.**

159. N.Devarajan, S.Suresh, V.Rajasekaran, “Design and Analysis of Shunt Hybrid Filter Control Topology for Mitigation of Load Current Harmonics” , IEEE –Indicon -2012, International Conference proceedings – IEEE Digital Xplore, 978-4673-2272-01/12/@**2012 IEEE**.
160. N.Devarajan, S.B.Suphaseni ,“ Optimal Placement of FACTS devices in Unbalanced Distribution System Using Particle Swarm Optimization”, National Conference on Electrical and Instrumentation Systems, (NCEIS’13), GCT, Coimbatore, **2013**.
161. N.Devarajan, R.Shobha ,“ Comparision of simulation and theoretical study of double of input DC-DC Buck Boost converter using H-Bridge cells ”, National Conference on Electrical and Instrumentation Systems, (NCEIS’13), GCT, Coimbatore, **2013**.
162. N.Devarajan, S.Chitra, T.Bharathkumar,“ Voltage Stability Assessment of Reconfigured Radial Power Network ”, National Conference on Electrical and Instrumentation Systems, (NCEIS’13), GCT, Coimbatore, **2013**.
163. N.Devarajan, S.Chitra, P.Nisha,“ Power Flow control in transmission line using Distributed Power flow controller”, National Conference on Electrical and Instrumentation Systems, (NCEIS’13), GCT, Coimbatore, **2013**.
164. N.Devarajan, R.Shobha ,“ Comparision of simulation and theoretical study of double input DC-DC Buck Boost Buck converter using Single Pole Triple Throw Switch ”, 7th National Conference on Electrical, Electronics and Control Systems, 2nd March 2013, Kumaraguru College of Technology, Coimbatore, **2013**.
165. S.Chitra, **N.Devarajan**, A. Kavinraj, “A Novel approach for voltage sag mitigation in distribution network using graph theory”, Fourth National Conference on Issues and Trends in Advanced Computing (NITAC 2014), conducted by the Department of Computer Applications, Bannari Amman Institute of Technology, Sathyamangalam, on 14 & 15.3.**2014**.
166. S.Chitra, **N.Devarajan**, A.Kavinraj, “A Graph theory based approach for voltage sag assessment in distribution network”, National Conference on Innovative Developments in Engineering and Automation (IDEA’2K14), conducted by the Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore -8 on 21.3.**2014**.
167. G.Aravind, S.Chitra, **N.Devarajan**, “Dynamic Voltage Restorer for fault current interruption using solar power”, National Conference on Innovations in Electrical, Electronics and Control Systems (IEECONS 2014), conducted by the Department of Electrical and Electronics Engineering, Kumaraguru College of Technology on 15.3.**2014**.
168. S.Chitra, **N.Devarajan**, “Application of Loop Frame of Reference in Fault Analysis”, National Conference on Mechatronics and Mechanical Systems (NCMMS 2014), conducted by the PG Mechanical Department of Karpagam College of Engineering on 1.3.**2014**.
169. R.Shobana, N.Devarajan, “Testing Procedure Approach to Assess the Performance of MPPT Algorithms”, National Conference on Renewable Energy Innovations for Rural Development (REIRD’14), conducted by the Rural Energy Center, Gandhigram Rural Institute – Deemed University, Gandhigram on 19.3.**2014**.

170. N.Karthikeyan, N.Devarajan, "Optimal Placement of Phasor Measurement : An Integer Linear Programming Approach", National Conference on Renewable Energy Innovations for Rural Development (REIRD'14), conducted by the Rural Energy Center, Gandhigram Rural Institute – Deemed University, Gandhigram on 19.3.2014.
171. Jemima Gnana Pushpam, N.Devarajan, "Energy Management in Hybrid System", National Conference on Innovative Developments in Engineering and Automation (IDEA'2K14), conducted by the Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore -8 on 21.3.2014.
172. N.Karthikeyan, N.Devarajan, "Optimal Placement of Phasor Measurement Unit for complete and Incomplete Observability : An Integer Linear Programming Approach", National Conference on Innovative Developments in Engineering and Automation (IDEA'2K14), Sri Krishna College of Engineering and Technology, Coimbatore -8 on 21.3.2014.
175. Pandeeshwari.M, Dr. N. Devarajan, "A Modified PSO based MPPT for PV system under partial shading condition" International Conference on Advances in Control and Computing of Analog and Digital Systems (ACCADS), 2014.
176. Pushba.N, Dr. N. Devarajan, "Performance analysis of grid connected Wind-Hydro hybrid system for various types of load" International Conference on Advances in Control and Computing of Analog and Digital Systems (ACCADS), 2014
177. Ramalingam.P, Dr. K. Ranjithkumar, Dr. N. Devarajan "Boost control of Trans Z-source inverter for photovoltaic system with MPPT capability" International Conference on Advances in Control and Computing of Analog and Digital Systems (ACCADS), 2014.
178. Ramalingam.P, Dr.K.Ranjithkumar, Dr.N.Devarajan, "Comparitive Analysis of Quasi Z-source and Trans Z-source inverter for Photovoltaic applications" International Conference on Electrical, Instrumentation and Communication Engineering Recent Trends and Research Issues (ICE2-RTRI), 2015
179. Suganthi Mary.S, Dr. K. Ranjithkumar, Dr. N. Devarajan "Performance analysis of Cuk and SEPIC converters with MPPT techniques for Solar power applications" International Conference on Electrical, Instrumentation and Communication Engineering Recent Trends and Research Issues (ICE2-RTRI), 2015
180. Remya K Anto , Dr. N. Devarajan," Single –Phase Transformer less PV Inverter Under Partial Shading Conditions" International Conference on Trends in technology convergence (TITCON'15), AVS Engineering College, Salem on 10.04.2015
181. Remya K Anto , Dr. N. Devarajan," Multilevel inverter with reduced number of switches in PV system under partial shading conditions" International conference on Recent innovations In Science, Engineering and Technology, Immaual Arasar JJ college of Engineering , Nattalam 2015

182. C.Domnic, S.Chitra, Dr.N.Devarajan, “Optimal Size and Location of Distributed Generators for Loss Reduction in Distribution System”, International Conference on Information, Computations and Communications , Kalaingar Karunanidhi College of Engineering and Technology, Coimbatore, **2015**
183. Soumya Sathyan, Dr. N. Devarajan “Implementation of MPPT using P&O Algorithm in DFIG using MATLAB” Proceedings of International Conference on Alternate Energy Technologies (ICAET), Govt. College of Technology, Coimbatore, **Nov.2015**
184. Veerakumar B, Yasoda K,Dr. N. Devarajan “Enhancement of Voltage Stability in DFIG Based Wind Forms ” Proceedings of International Conference on Alternate Energy Technologies (ICAET), Govt. College of Technology, Coimbatore, **Nov.2015**