

Bio-data

Name : **M. VIJAYA KUMAR**

Date of Birth : **01-05-1966**

Designation : **Professor in EEE Dept.,
JNTUACEA &
Vice-Chancellor (i/c), RGUKT**

Official Address : **JNTUA College of Engineering,
Ananthapuramu – 515 002 (A.P)**

Residential Address : **# 243, SV Homes,
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Educational Qualifications:

S.No	Course	Specilization	Year of Passing	Institution	Class
1	X Class		1981	APPZPH School, Atmakur, Anantapur (Dist) AP Board of Secondary Education	First 62%
2	Intermediate	Maths, Physics, Chemistry	1983	Govt. Junior College (Boys), Anantapur AP Intermediate Board	First 63.4%
3	B.Tech	Electrical & Electronics Engg	1988	NBKIRST, Vidyanagar, (SVUniversity)	First 67%
4	M.Tech	Electrical Machines & Industrial Drives	1990	REC, Warangal (Kakatiya University)	First 71%
5	Ph.D	Electrical Engineering	2000	JNTUniversity, Hyderabad	--

Details of Doctoral thesis:

Title : Certain Aspects of Electrical Energy Measurement, Maximum Demand Estimation and Conservation with Case Studies.

Year of award : 2000

Professional Experience :

S.No	Designation	Institution	Experience	
			From	To
1	Professor	JNTU College of Engg, Anantapur	22.4.2006	Till Date
2	Associate Professor	JNTU College of Engg, Anantapur	14.11.2003	21.4.2006
3	Director	AICTE, New Delhi	3.7.2003	12.11.2003
4	Associate Professor	JNTU College of Engg, Anantapur	2.3.2001	2.7.2003
5	Lecturer (Asst.Prof.)	JNTU College of Engg, Anantapur	19.10.1992AN	1.3.2001
6	Lecturer	KSRM College of Engg, Kadapa	30.10.1991	19.10.1992FN
7	Teaching Assistant	REC (NITW) , Warangal	3.2.1990	29.10.1991

Administrative Experience :

S.No	Designation	Institution	Experience	
			From	To
1	Officer in charge of Electrical Maintenance	JNTU College of Engg, Anantapur	26.5.2000	7.10.2002
2	Project Engineer (Electrical)	JNTU College of Engg, Anantapur	17.11.2000	7.10.2002
3	Officer in charge of Academic Section	JNTU College of Engg, Anantapur	7.10.2002	2.7.2003
4	Director	AICTE, New Delhi	3.7.2003	12.11.2003
5	Officer – Incharge of Hostels	JNTU College of Engg, Anantapur	28.05.2005	12.05.2006
6	Head of the Department	JNTU College of Engg, Anantapur	30.4.2006	27.8.2008
7	Registrar	JNTUniversity Anantapur	27.8.2008	3.11.2010
8	Director Foreign Affairs & Alumni Matters	JNTUniversity Anantapur	23.2.2013	29.1.2015
9	Director of Admissions	JNTUniversity Anantapur	29.1.2015	28.03.2018
10	Director Academic and Planning	JNTUniversity Anantapur	28.03.2018	28.06.2019

11	Registrar	JNTUniversity Anantapur	29.06.2019	29.04.2021
12	Rector	JNTUniversity Anantapur	29.04.2021	01-07-2024
13	Vice-Chancellor (FAC)	RGUKT, A.P.	20.01.2023	Till Date

Teaching Experience: 32+ years of teaching experience

Subjects Taught:

Undergraduate courses	Post graduate courses
<ul style="list-style-type: none"> ➤ Electromechanics – I ➤ Electromechanics – II ➤ Electromechanics – III ➤ Electrical Technology ➤ Microprocessor 8086 ➤ Power Electronics ➤ Solid State Electric Drives ➤ Microprocessors & Microcontrollers ➤ Instrumentation ➤ Electrical Measurements ➤ Utilisation of Electrical Energy ➤ Electrical Circuits & Electrical Machines ➤ Digital Systems 	<ul style="list-style-type: none"> ➤ Advanced Microprocessors ➤ FACTS Controllers & Applications ➤ Switching & Resonant Converters ➤ Thyristor Controlled Drives ➤ HVDC Transmission ➤ Digital Systems ➤ Solid State Electric Drives – I ➤ Solid State Electric Drives – II ➤ Power Electronic Converters ➤ Solar Energy Conversion System ➤ Electric Vehicle Engineering

Research Projects completed as Co-ordinator:

Completed two Research Project funded by AICTE and UGC. The details are as follows:

- Acted as Chief Co-ordinator of TAPTEC Project titled “ Microcontroller/ Microcomputer Based Instrumentation” worth Rs.5.00 lakhs sanctioned by AICTE in the financial year 1996-97.
- Acted as Principal Investigator of Major Research project titled” Fuzzy and Artificial Neural Network Based Controllers for Vector Controlled Induction Motor Drives” worth Rs.7.35 lakhs in the financial year 2004-05.

Research Experience and Guidance provided:

Total research experience : 22 years

- Guided 30+ Undergraduate projects and 100+ Postgraduate theses
- Guided students to work and present the research papers in student paper contests
- Presently, supervising Research scholars for their Ph. D.

Research guidance Provided: Details of Ph.Ds' awarded under my Supervision:

S.No	Title of the thesis	Name of the Student	Roll Number	Date of Award
1	Certain Optimization Aspects of Radial Distribution Systems.	S.SivaNagaraju		08.04.2004
2	Certain Aspects of Direct Torque Controlled Induction Motor Drives.	Y.P.Obulesu		31.01.2006
3	Performance Improvement of Direct Torque Controlled Induction Motor Drive.	Y.V.Siva Reddy	40074EEPH	07.07.2010
4	Development of an Advanced and Efficient FEM based Technique for Solving the Coupled Field Problems in Power Transformers and other Sub- Station Equipment.	A.Srinivasulu Reddy	0503PH0707	07.08.2010
5	Stability & Power Quality enhancement using power electronic circuits	T.Deva Raju	0703PH0754	16.03.2011
6	Localization of Faults in a Transmission Line using Wavelet Techniques.	B.Ravindranath Reddy	0703PH0716	14.06.2011
7	Real Time Metering for Energy Management and Auditing	P.Sujatha	0500PH0705	21.01.2012
8	Nonlinear Modeling and Control of Switched Reluctance Motors	K.Venkata Reddy	0703PH0714	23.01.2012
9	Investigation on Potential Photovoltaic Power Modules for Higher Electrical Output	R.Kiranmayi	30712EE/PH	15.07.2013
10	Key Performance Indicators for Energy Management	M.S.Sujatha	0603PH0912	16.10.2014
11	Investigations on Control of DC-DC Converters for Stand Alone Wind Energy System	M. Annamalai	2006793120	25.04.2015
12	Decentralized State Feedback Power System Stabilizers	A.Venkateswara Reddy	0703PH0737	20.05.2015
13	Design, Analysis and Control of DC to DC Quasi Resonant Converters	K.Deepa	08030PH0775	19.12.2015
14	A Study and Modeling of Novel Hybrid Shunt Active Filter for the Improvement of Power Quality	S.Sella Kumar	2006793121	16.04.2016
15	Minimization of Torque Ripple by Voltage Vector Modulation in Direct Torque Controlled AC Drives: Analysis and Implementation	A.Sudhakar	0900PH0209	13.05.2016
16	Application of STATCOM in Distribution Systems for Power Quality Improvement	N.Usha	0603PH0756	22.08.2016
17	Performance Improvement of Vector Control Induction Motor Drive	P. Rama Mohan	11PH0209	27.06.2017
18	Optimal Placement, Economic and Environmental Aspects of DG in RDS	J.A. Bhaskar	0703PH0718	20.07.2018
19	Voltage Profile Improvement of Grid Connected Wind Farms using FACTS Devices	K.SreeLatha	11PH0226	18.08.2018

20	Reduction of THD in Wind Energy Conversion System using Multilevel Converters	G.Pandu Ranga Reddy	11PH0214	07.09.2018
21	Performance Improvement of 7-Level Inverter with SIMO/Impedance Source Network for PV System	B.M. Manjunatha	12PH0205	08.10.2018
22	Comparative Study of Various Space Vector based PWM Techniques for VSI fed Induction Motor Drives.	M. Nayeemuddin	12PH0201	22.03.2019
23	Performance Improvement of Sensorless Controlled IPMSM Drive With Adaptive Controllers	K.Narasimhaiahachari	11PH0220	04.07.2019
24	Mitigation of Certain Power Quality Issues with custom Power Devices using Intelligent Controllers	M. Ramasekhara Reddy	0900PH0205	18.01.2020
25	Certain Performance Improvement Aspects of Sensor less Induction Motor Drives using MRAS Technique.	M. Ankarao	11PH0229	18.01.2020
26	Certain Aspects of Generalized Cascaded Sub Multi Level Inverters	Bolla Madhusudan Reddy	13PH0213	26.05.2020
27	Power Quality Disturbance Recognition and Mitigation Using Discrete Wavelet Transforms and UPQC	A. Muni Sankar	11PH0202	13.07.2020
28	Certain Aspects of Harmonic Reduction using Shunt Active Power Filter with Cascaded Multilevel Inverter	R. Sheba Rani	12PH0208	17.10.2020
29	Switch Faults Diagnosis and Mitigation in Neutral Point Clamped Multi Level Inverter Feeding Induction Motor Drive	Y.Krishna Priya	12PH0209	11.02.2021
30	Performance Improvement of Grid Connected PV System	G. Sreenivasa Reddy	13PH0210	23.02.2021
31	Design And Development Of Improved Single Stage Boost-Flyback Converters Using Fpga Controller	S.L.V. Sravan Kumar	14PH0205	19.10.2022
32	Spread Spectrum Pulse Width Modulation Methods For Vector Controlled Induction Motor Drives	S. Nithya Lavanya	13PH0202	30.10.2021
33	Power System Stabilization Using UPFC with Intelligent Supplementary Controllers	P. Amrutha	13PH0208	11.02.2022
34	Simulation of DVR With Intelligent Controllers for Power Quality Improvement	N Eashwaramma	12PH0211	18.08.2021
35	Identification of High Impedance Faults in Distribution System using AI Techniques	N. Narasimhulu	13PH0206	26.02.2022
36	Coordinate Control of DGS and Voltage Control Devices Using Different Programming Algorithms	M Sankaraiah	13PH0203	08.11.2021

37	Performance Analysis of Three Phase Single Stage Grid Connected PV System Using Non-Linear Controllers	K. Rajasekhar Reddy	14PH0218	20.12.2021
38	Implementation of Certain Advanced SVPWM Strategies for Multi-Level Inverters	A Suresh Kumar	14PH0217	06.09.2021
39	Performance Enhancement of Grid Connected Hybrid Renewable Generation System using Optimization Techniques	Y. Nagaraju	14PH0209	10.04.2023
40	Intelligent Control of DTC Induction Motor Drive with Five Level Inverter	B Kiran Kumar	11PH0201	15.04.2023
41	An Adaptive And Decentralized State Feedback Controller For Improving Damping Performance of Power System	U. Sreenivas	11PH0223	08.06.2023
42	Certain Aspects on Impact of Distributed Generation in Smart Grid on Social Surplus for de Regulated Power Market.	Ch.Rachappa	11PH0207	20.04.2023
43	Certain Aspects of Reliability Assessment of Distribution Systems as a Cluster of Micro Grids.	R.Sireesha	14PH0214	11.03.2024
44	Optimal Utilization of Distributed Generation and Facts Controller for Power Quality Enhancement in Rural Distribution Systems.	M. Manohara	14PH0216	25.10.2024
45	Performance Improvement of BLDC Motor with Modified BL Landsman Converter using Intelligent Techniques.	Murali Dasari	13PH0205	18.11.2024

Scholars working for their Ph.Ds' under the supervision

S.No	Name	Title	Reg. Year
1	C.Prasanth Sai	Implementation of Soft computing techniques to achieve MPPT for Solar PV Systems with advanced converters	2016-17
2	S V Pratap Shima Reddy	Design and Implementation of Power Conditioner for Electric Vehicle	2018-19
3	Omkar	A Novel Approach to Design an Integrated On-Board Charger for Electrical Vehicles with V 2 G and G 2 V	2020-21
4	Lakshmi Prasad Reddy	Finite Control set Model Predictive Torque Control for Induction Motor Drive	2020-21
5	P A Prabhakara	Power Converters & Hybrid Electrical Vehicles (Research Area)	2022

Number of Research publications:

International Journals	:	109
National Journals	:	30
International Conferences	:	44
National Conferences	:	40

(Detailed List of Publications are attached in separate sheet)

Experience in Associations/ Organizations:

S.No	Designation	Institution	Experience	
			From	To
1	Secretary cum Treasurer ISTE local chapter	JNTU College of Engg, Anantapur	Oct'1998	Oct'2000
2	Secretary Teachers Association	JNTU College of Engg, Anantapur	1.1.2000	31.12.2001
3	National Executive Council Member ISTE, NewDelhi	ISTE, NewDelhi	1.1.2003	31.12.2005
4	Vice President, Teachers Association	JNTU College of Engg, Anantapur	1.1.2004	31.12.2005
5	Member Convener Monitoring & Development Committee	JNTUniversity Anantapur	10.9.2008	3.11.2010
6	State Managing Committee Member	ISTE AP section	1.1.2009	31.12.2011
7	State Managing Committee Member	ISTE AP section	1.1.2012	31.12.2014

Awards:

- Received **The Pandit Madan Mohan Malaviya Memorial Prize** from The Institution of Engineers (India) on 17.12.2004.
- Received **The Institute Prize** from The Institution of Engineers (India) on 17.12.2004.
- Received **Certificate of Merit** from The Institution of Engineers (India) on 11.12.2009
- Received the **Best Teacher Award** from AP State Government on 05.09.2015

Academic Achievements:

- 40 Research Scholars have received Ph.D. degrees under my guidance.
- Responsible for introducing new UG ad PG courses in JNTUA.
- Organized Conferences & Skill Development programs for unemployed youth.
- Received two funding projects from AICTE & UGC.

Administrative Achievements:

- Served as **Founder Registrar** of JNTUniversity, Anantapur and played critical role in developing University from ground level and streamlined the procedures.
- Instrumental in getting UGC – Sec 2 (f) & Sec 12(B) status to the JNTUA.
- Instrumental in Introducing NRI/PIO/Foreign quota and getting foreign students to JNTUA

- Major role in Signing MoU's with various organisations.
- Prominent role in starting Collaborative programs of JNTUA with Foreign Universities
- Significant role in installation of two 500 KW Solar Power Stations in JNTUA campuses.
- **Convener for APEAPCET 2022** to conduct state wide online entrance test.

Industrial Exposure:

- Undergone Industrial Training at Kirloskar Electric Company Pvt.Ltd., Mysore from 02.05.1989 to 22.06.1989. Associated in the project “Singlephase static AC Regulator” during this period.
- Undergone practical training at Kirloskar Electric Company Pvt.Ltd., Mysore from 16.08.1989 to 30.01.1990 Completed M.Tech Dissertation work titled “Delta connected Power Controller to RF Induction Heater” during this period.

Board of Studies Memberships:

- Member, Board of Studies in E & ECE(P.G.) S.V.U, Tirupati – 3 years from 11.03.2005.
- Member, Board of Studies in EEE , JNTUCollege of Engg., Anantapur.
- Chairman, Board of Studies in EEE , JNTUCollege of Engg., Anantapur.
- Member, Board of Studies in EEE , JNTUniversity, Hyderabad
- Member, Board of Studies in EEE , JNTUCollege of Engg., Anantapur.
- Member, Board of Studies in EEE , Sri Krishnadevaraya University., Anantapur – 3 Years from 29.8.2009.
- Member, Board of Studies in EEE , Yogi Vemana University, Kadapa
- Chairman, UG Board of Studies in EEE , JNTUniversity, Anantapur w.e.f 22-7-2011 for a period of 2 years
- Chairman, PG Board of Studies in EEE , JNTUniversity, Anantapur w.e.f 4-10-2014 for a period of 2 years

Governing Body Memberships:

- Governing Body Member, VITS, Kavali
- Governing Body Member, Shree Institute of Technical Education, Krishnapuram, Chittoor(Dist)
- Governing Body Member, Shri Shiridi Sai Institute of Science & Engineering, Vadiyampet, Anantapur(Dist)
- Governing Body Member, SreeVidyaniketan Engineering College, Tirupati
- Governing Body Member, Sree Rama Engineering College, Tirupati
- Governing Body Member, JNTUCE, Anantapur from 30.4.2006 to 27.8.2008.
- Governing Body Member, Annamacharya Institute of Technology and Sciences, Rajampet
- Governing Body Member, Madanpalli Institute of Technology and Sciences, Madanapalli
- Governing Body Member, KVSubba Reddy Engineering College for Women, Kurnool
- Governing Body Member, Chaitanya Bharathi Institute of Technology, Proddatur

Membership in Committees:

- Member, EEE Doctoral Committee, JNTUniversity, Anantapur
- Member, NSS Advisory Committee , JNTUniversity, Anantapur
- Member, Building Committee, JNTUniversity, Anantapur
- Member, Building Committee, SKUniversity, Anantapur

Membership in Professional Bodies:

- Life Member of Indian Society for Technical Education (ISTE) – LM 14250
- Life Member of System Society of India (SSI) – LM 26008
- Fellow of Institution of Engineers (India) - FIE (F 112671-3)
- Senior Member IEEE 95034237

Participation in Conferences/ Refresher Courses/ Workshops/ Summer/ Winter Schools/ Symposiums/ Seminars, etc.:

S.No	Name of the Course	Duration	Dates	Place
1	National Workshop on Recent Trends on Microprocessor Applications	3 Days	25-27 June,1990	JNTU College of Engg, HYD
2	ISTE Winter School on Developments in Computer Based Control Systems	1 Week	26.12.90 To 1.1.91	MBM Engg. College, Jodhpur
3	Winter School on Computer Software	4 Weeks	21.1.93 To 17.2.93	JNTU College of Engg., Anantapur
4	ISTE Summer School on Signals and Systems	2 Weeks	9-21 May,1994	JNTU College of Engg., Anantapur
5	ISTE Summer School on C Language	4 Weeks	1-30 Aug,1994	JNTU College of Engg., Anantapur
6	UGC Refresher Course in Electrical Engg	4 Weeks	7.11.94 To 2.12.94	JNT University Hyderabad
7	ISTE Summer School on Operations Research	4 Weeks	8.3.95 To 6.4.95	JNTU College of Engg., Anantapur
8	QIP Short Term Course on System Identification and Adaptive Control	2 Weeks	4-15 Dec,1995	IIT Madras
9	National Workshop on PC Based Instrumentation	1 Week	10-17 March,97	SK University Anantapur

10	ISTE Winter School on Programming in C++ and Data Structures	4 Weeks	31.12.97 To 29.1.98	JNTU College of Engg., Anantapur
11	ISTE Summer School on Numerical Methods with C for Scientists & Engineers	4 Weeks	26.3.99 To 24.4.99	JNTU College of Engg., Anantapur
12	ISTE Short Term Training Programme on Internet and Java	4 Weeks	9.8.00 To 8.9.00	JNTU College of Engg., Anantapur
13	AICTE - ISTE Winter School on Reliability Engg. and Applications	2 Weeks	11-23 Dec,2000	JNTU College of Engg., Anantapur
14	Workshop on Best Practices in Energy Conservation	3 Days	18-20 Aug,2005	CPRI Thiruvananthapuram
15	Refresher Course on Analysis of Electrical Circuits	1 Week	29.8.05 To 3.9.05	JNTU College of Engg., Anantapur
16	Workshop on Vector Control of Induction Motor	3 Days	20-22 Oct,2005	JNTU College of Engg, HYD
17	Workshop on Distribution & Automation – Recent Trends	3 Days	28-30 Oct,2005	JNTU College of Engg., Anantapur
18	Seminar on Productivity Enhancement : Concept, Benefits & Applications	1 Day	28 th July 2006	Yokogawa Support Service Solutions, Secunderabad
19	Industrial Pneumatics Symposium	5 Days	11-15 th Dec 2006	SMC Pneumatics Pty Ltd, Sydney (Australia)

Organization of Seminars/ Conferences/ Workshops/ Summer/ Winter Schools/ Community Service programmes, etc.:

- Organized 2 STTPs
 - ❖ “Numerical Methods with C for Scientists & Engineers” during 26th March to 24th April, 1999
 - ❖ “Internet and Java” during 9th Aug to 8th Sep, 2000.
- Organized AICTE Sponsored National Conference on “Recent Advances in Electrical Engineering (EAR – 2004) on 4th December, 2004.
- Organized Community Services Programme on “Electrical Wiring & AC/DC Motor Control “from 22-01-2007 to 05-02-2007.
- Organized a Two day Workshop on “Intelligent Techniques and Their Applications in Engineering” during 14th & 15th Feb’2007.

- Organized a Two week Training Program on “Development of Embedded Systems Laboratory” from 19-02-2007 to 02-03-2007.
- Organized A Two Day National Level Technical Symposium EYE-07 during 16th& 17th March’07.
- Organized Community Services Programme on “Substation Maintenance & its Safety Measures “from 21-01-08 to 04-02-08.
- Organized A Two Day National Level Technical Symposium EYE-2K8 during 27th& 28th Feb’08.
- Organized A Two Day National Level Technical Symposium PIC-2K7 during 28th& 29th Feb’08.

Foreign Countries Visited:

- **Australia** - Attended training program atSMC Pneumatics Pty Ltd, Sydney
- **United Kingdom** – Signed MOU with Ports Mouth University, Portsmouth
- **Germany** – Visited number of Universities as part of APSCHE delegation
- **Malaysia** – Visited Koulalampur during Transit

Any Other:

- Acted as Fact Finding Committee member for granting University affiliation to various self-financing institutions.
- Acted as Fact Finding Committee member for AICTE inspection for increase in intake/ introduction of PG Courses in various self-financing institutions.
- Acted as Subject Expert in various Staff Selection Committees
- Acted as Judge at National level Student Technical Symposiums organized by various institutions.
- Delivered guest lectures at various University and Affiliated Engineering Colleges
- Acted as College co-ordinataor for preparing documents for NAAC and NBA committees inspections (University received A grade by NAAC and Five departments of College got accreditation for 3 years by NBA)
- Acted as Anantapur Help Line Centre Co-ordinator for Admissions of APPGECET-2015-17.

Ananthapuramu

07/07/2023



(Prof. M.VIJAYA KUMAR)

LISTS OF RESEARCH PUBLICATIONS /BOOKS

INTERNATIONAL JOURNALS					
S.No	Title of Paper & Authors	Name, Volume, number & Year of publication	Page No.		Impact Factor
			From	To	
1	Optimal conductor selection for radial distribution systems S.Sivanaga Raju, N.Sreenivasulu , M.Vijaya Kumar and T.Ramana	Journal of Electric Power Systems research, Vol.63,2, Sept 2002. (SCIE)(SCOPUS)	95	103	3.211
2	Voltage stability analysis for radial distribution networks with and without compensation” S.Sivanaga Raju, N.Sreenivasulu , M.Vijaya Kumar and T.Ramana	Journal of Water and Energy, Vol-60, No.1, Jan-Mar 2003. (SCOPUS)	48	53	0.2
3	Understanding of Voltage Sag mitigation using PWM Switched Autotransformer through MATLAB Simulation T.Devaraju, A. Muni Sankar, V.C.Veera Reddy and M.Vijaya Kumar	World Journal of Modelling and Simulation (2005) ISSN 1746-7233	154	160	0.44
4	Direct Torque Control of Induction Motor Drive based on Random position SVPWM, For Reduction of Acoustical Noise Y.V.Siva Reddy and M.Vijaya Kumar	ARPJ Journal of Engineering and Applied Sciences, Vol.2, No.3, oct 2006. (SCOPUS)	17	21	1.2
5	A Novel Zero Voltage Transition (ZVT) Technique Based Closed Loop Control of Boost Power Factor Correction (PFC) Converter with EMI Filter P.Ram Mohan, M.Vijaya Kumar , S. Rama Reddy and O.V. Raghava Reddy	Medwell Journals: International Journal of Electrical and Power Engineering 1 (1), Jan 2007	104	107	--

6	A Novel Microcontroller Based Power Factor Correction (PFC) Boost Converter with EMI Filter P.Ram Mohan, M.Vijaya Kumar , S. Rama Reddy and O.V. Raghava Reddy	Medwell Journals: International Journal of Electrical and Power Engineering(1), Jan 2007	99	103	--
7	Direct Torque Control of Induction Motor using Sophisticated Lookup Tables Based on Neural Networks Y.V.Siva Reddy, M.Vijaya Kumar and T.Brahmananda Reddy	ICGST Trans. On AIML Journal, Vol.7, Issue 1, June 2007	9	15	2.144
8	A Novel Topology of EMI Filter to suppress Common Mode and Differential Mode noises of Electro Magnetic Interference in Switching Power Supplies P.Ram Mohan, M.Vijaya Kumar , and O.V. Raghava Reddy	APRN Journal of Engineering and Applied Sciences, Vol.2, No.4, August 2007. (SCOPUS)	32	35	1.2
9	A Novel EMI Filter to suppress CM and DM noises of EMI in ZVT Technique based Boost PFC Converter P.Ram Mohan, M.Vijaya Kumar , and O.V. Raghava Reddy	International Review of Electrical Engineering Journal, Vol.2, No.4, August 2007. (SCOPUS)	1	5	2.6
10	Design and Simulation of Direct Torque Control of Induction Motor Drive using MATLAB/ Simulink Y.P.Obulesu and M.Vijaya Kumar	International Journal of Power and Energy Systems, Vol 27, No.2, 2007. (SCOPUS) (ESCI)	145	150	0.5
11	Hottest Spot and Life Evaluation of Power Transformer Design using Finite Element Method A.Srinivasula Reddy and M.Vijaya Kumar	Journal of Theoretical and Applied Information Technology, Vol 4, No.3, 2008. (SCOPUS)	238	243	1.2
12	Neural Network Modeling of Distribution Transformer with Internal Winding Faults using Double Fourier Series A.Srinivasula Reddy and M.Vijaya Kumar	International Journal of Computer Science and Applications , Vol.1, No.3, December 2008. (SCOPUS)	160	163	1.2
13	A Novel Boost PFC Converter Employing ZVS Based Compound Active Clamping Technique with EMI Filter P.Ram Mohan, M.Vijaya Kumar , and O.V. Raghava Reddy	Journal of Semiconductor Technology and Science, Vol.8, No.1, March, 2008. (SCOPUS)	85	91	0.8
14	Evaluation of Transformer Faults using Double Fourier Series- A fastest method for Field Computations A.Srinivasula Reddy and M.Vijaya Kumar	Journal of Theoretical and Applied Information Technology, 2008. (SCOPUS)	1	6	1.2

15	A New Space Vector Pulse Width Modulation for Reduction of Common Mode Voltage in Direct Torque Controlled Induction Motor Drives Y.V.Siva Reddy, M.Vijaya Kumar and T.Brahmananda Reddy	Iranian Journal of Electrical and Computer Engineering, Vol.7, No.1, 2008	34	38	0.5
16	Detection & Localization of Faults in Transmission Lines using Wavelet Transforms (Coif Let & Mexican Hat) B.Ravindranath Reddy, M.Vijaya Kumar , M.SuryaKalavathi and Y.Venkata Raju	Journal of Theoretical and Applied Information Technology, 2009. (SCOPUS)	99	104	1.2
17	Persuasion of Energy Audit on Demand –Side Management in Power System P. Sujatha, M. Narendra Kumar and M. Vijaya Kumar	Research Journal of Engg. And Tech. Volume-2, Issue-3, July-September 2009	81	85	
18	Simulation Results of Eight-Bus System using Push-Pull Inverter Based STATCOM N.Usha and M.Vijaya Kumar	Journal of Theoretical and Applied Information Technology, 2009 Vol. 10 No.2 (SCOPUS)	83	88	1.2
19	Non-lonear Modeling and Torque Ripple Minimization of Switched Reluctance Motors KVReddy and M.Vijaya Kumar	International Journal on Electronic & Electrical Engineering(IJEEE) Vol. 4 No. 6 March-May2009 ISSN 0974-2042	1	8	0.5
20	LCL-T Resonant DC-to-DC Converter for Stand alone Wind Energy System M. Annamalai, M. Vijaya Kumar	International Journal of Engineering, Research &Indu. Appls. Vol.2, No. III(2009)	115	124	0.5
21	Modeling and Simulation of PWM Switched Autotransformer for Voltage Sag Mitigation using MATLAB T.Devaraju, V.C.Veera Reddy and M.Vijaya Kumar	International Journal of Electrical and Power Engineering 4(3), 2010.	164	168	
22	Enhancement of Voltage Stability and Loadability Margin using FACTS Devices T.Devaraju, M.Vijaya Kumar and V.C.Veera Reddy	International Journal of Multidisciplinary Research and Advances in Engineering, Vol.2, No.3, Oct 2010.	53	62	
23	Role of Custom Power Devices in Power Quality Enhancement: A Review T.Devaraju, V.C.Veera Reddy and M.Vijaya Kumar	International Journal of Engineering Science and Technology, Vol.2(8), 2010	3628	3634	
24	Modeling and Simulation of Custom Power Devices to Mitigate Power Quality Problems T.Devaraju, V.C.Veera Reddy and M.Vijaya Kumar	International Journal of Engineering Science and Technology, Vol.2(6), 2010	1880	1885	

25	Performance of DVR under Different Voltage Sag and Swell Conditions T.Devaraju, V.C.Veera Reddy and M.Vijaya Kumar	ARPN Journal of Engineering and Applied Sciences, Vol.5, No.10, oct 2010. (SCOPUS)	1	9	1.2
26	Comparative Study on Voltage Sag Compensation Utilizing PWM Switched Autotransformer By HVC T.Devaraju, V.C.Veera Reddy and M.Vijaya Kumar	Journal of Theoretical and Applied Information Technology, Vol.19,No.2, 2010. (SCOPUS)	92	97	1.2
27	Comparison of VSI and ZSI Based STATCOM Systems N.Usha and M.Vijaya Kumar	International Journal of Engineering Research and Industrial Applications, Vol.3, No.I (2010).	247	260	
28	NSTFPI Controller for the Speed Control of Switched Reluctance Motors KVReddy and M.Vijaya Kumar	International Journal on Electrical Engineering and Electrical Systems(IJEEES) Vol. 4 No. 1 October-December 2010, ISSN 0974-4967	15	20	
29	A comparative study of PI and Fuzzy Based Controller for DC-DC converters Deepa.K, M. Vijaya Kumar	CiiT International Journal of Programmable Device Circuits and Systems, February Issue 2010, ISSN 0974-9624.	20	28	0.49
30	Design Simulation of CII Resonant Dc-to-Dc Converter for Stand Alone Wind Energy System M. Annamalai, M. Vijaya Kumar	International Journal of Computer and Electrical Engineering, Vol. 2, No. 5, October, 2010.	1793	8163	
31	Simulation of Novel Hybrid Shunt Active Filter to Reduce the Harmonics due to Non-linear Loads in 415V, 50 Hz Distribution System S.Sella Kumar and M.Vijaya Kumar	International Journal of Advanced Engineering Sciences and Technologies, Vol.2, No.2, 2011 ISSN: 2230-7818	146	150	0.45
32	Design of PI Controller for Multi Output Boost Converter Deepa.K, Sharika, Mamatha, M. Vijaya Kumar	CiiT International Journal of Programmable Device Circuits and Systems, August Issue 2011, ISSN 0974-9624	461	465	0.49
33	Design and Implementation of DC-DC Converter with Hybrid Mode LLC+C Resonant Tank M. Annamalai, M. Vijaya Kumar	Artificial Intelligent Systems and Machine Learning, Vol 3, No 7 (2011)	471	476	0.763
34	Design and Implementation of Closed Loop LCL-T Resonant DC-to-DC Converter Using Low Cost Embedded Controller M. Annamalai and M. Vijaya Kumar	<i>American Journal of Engineering and Applied Sciences</i> Volume 5, Issue 4,2012	291	300	0.42
35	A Comparative Analysis of PI and Neuro Fuzzy Controllers in Direct Torque Control of Induction Motor Drives A Sudhakar, M.Vijaya Kumar.	Internal Journal of Engineering Research and Applications (IJERA) Volume 2, Issue 4, June-July2012,	672	680	

36	Environmental and Economic Aspects of Hybrid Distribution Generation in an Electrical Distribution System J.A. Baskar, R. Hariprakesh, M.Vijaya Kumar	International Journal of Engineering and Innovative Technology(IJEIT) Volume1, Issue6, June 2012	201	207	
37	Online Estimation of Rotor Time Constant and speed for Vector Controlled Induction Motor Drive with Model Reference Adaptive Controller (MRAC) D.Sleeve Reddy, K. Lakshmi Prasad Reddy, M. Vijaya Kumar	International Journal of Engineering Research and Applications(IJERA) Volume-2, Issue-6, November – December2012 ISSN:2248-6922	172	179	
38	A Comparison of Extended and Unscented Kalman Filters for the State Estimation of Induction Motor Drives D.Sleeve Reddy, K. Ankalamma, M. Vijaya Kumar	International Journal of Engineering Research & Technology(IJERT) Volume-1, Issue-7,September-2012			
39	Constant Power Control of 15 DFIG wind turbines with energy storage V. Phaneendra, M. Rama Sekhara Reddy & M. Vijaya Kumar	International Journal of Power Systems Operation and Energy Management Volume-1, Issue-4, 2012 ISSN:2231-4407	59	66	
40	Modeling and Control of a Permanent Magnet Synchronous Generator wind Turbine with Energy Storage K. Uday Kumar Reddy, M. Rama Sekhara Reddy and M. Vijaya Kumar	International Journal of Engineering Research and Applications (IJERA) Volume-2, Issue-5, September-October 2012	1900	1905	
41	Economic Impact of Hybrid Distributed Generation in an Electrical Distribution System J.A.Baskar, R.Hariprakash and M.Vijaya Kumar	Journal of Theoretical and Applied Information Technology, 15 th January 2012, Vol. 35 No.1 ISSN:1992-8645. (SCOPUS)	83	91	1.2
42	Digital Simulation of SISO-ZVS-Push pull Quasi Resonant Converter for Different Loads Deepa.K, M. Vijaya Kumar	International Journal of Engineering Research and Applications (IJERA) Volume-2, Issue-4, July-August 2012	896	901	
43	A Novel MATLAB/Simulink Model of PMSM Drive using Direct Torque Control with SVM K. NarasimhaiahAchari, B. Gururaj, D.V. Ashok Kumar, M.Vijaya Kumar	IJCA Proceedings on Emerging Technology Trends on Advanced Engineering Research - 2012 ICETT(1), January 2013	34	39	
44	Comparative Analysis of Sine Triangle and space vector PWM for Cascaded Multilevel Inverters B. Kiran Kumar, Y.V. Sivareddy and M.Vijaya Kumar.	International Journal of Electrical Engineering & Technology (IJEET) Volume4, Issue2, March-April 2013. (SCOPUS)	155	164	

45	Neural Network Controllers in Direct Torque Controlled Synchronous Motor. A Sudhakar, M. Vijaya Kumar.	International Journal of Power Electronics and Drives Systems(IJPEDS) Volume3, No.3, September 2013. (SCOPUS)	311	320	2.4
46	Evaluation of Micro turbine-Wind Based DG System for Minimizing Costs and Pllutant Emission in an Electrical Distribution System J.A. Baskar, R. Hariprakesh, M. Vijaya Kumar	International Journal of Engineering and Innovative Technology(IJEIT) Volume2, Issue11, May 2013			
47	Analysis of a quasi-resonant switch mode power supply for low voltage applications Deepa.K, Jayanthi.R, M. Vijaya Kumar	International Journal of Electrical and Power Engineering ACEEE Volume-4, No.2, Aug 2013,	85	92	
48	Soft switching scheme for a post regulated current fed pushpull converter Ajith Vijian, Deepa.K, M. Vijaya Kumar	International Review on modeling and simulation, IREMOS. Volume-6, No.2, April 2013. (SCOPUS)	317	322	2.3
49	Design and implementation of 30W DC-DC converter for Aerospace application Deepthi, Deepa.K, M. Vijaya Kumar	International Review on modeling and simulation, IREMOS. Volume-6, No.2, April 2013. (SCOPUS)	323	328	2.3
50	Active clamp zero voltage switching multi output flback converter with voltage doubler Deepa.K, Santhi Mary Kurian, M. Vijaya Kumar	International Review on modeling and simulation, IREMOS. Volume-6, No.2, April 2013. (SCOPUS)	351	359	2.3
51	Power Quality Improvement in DFIG based Wind energy Conversion system using UPFC M. Rama Sekhara Reddy, M. Vijaya Kumar	IOSR Journal of Engineering (IOSRJEN) Volume-3, Issue-1, January 2013	46	54	
52	Design of Pole Placement Power System Stabilizers for Multi-Machine Systems without the External System Information A.Venkateswara Reddy, GurunathGurralla and M. Vijaya Kumar	IAMURE International Journal of Mathematics, Engineering and Technology ,Volume-5, January 2013	42	57	
53	Implementation of FC-TCR for reactive control K. SreeLatha and M. Vijaya Kumar	IOSR, Volume-5, Issue-5, May-June 2013	1	5	
54	Enhancement of Voltage stability in Grid connected Wind farms using SVC K. SreeLatha and M. Vijaya Kumar	IJETAE, Volume-3, Issue-4, April 2013			

55	Mitigation of Power Quality Issues in Grid Integrated PV and Wind Energy systems using UPQC A. Muni Sankar, T. Devaraju, M. Vijaya Kumar	International Journal of Electrical and Electronics Engineering Research, Vol.4, Issue 4 2014	91	102	
56	Matrix Converter Design for DFIG Based Wind Energy Conversion System P.Ranga Reddy G., M.Vijaya Kumar	International Journal of Distributed Energy Resources and Smart Grids, Volume 10, Issue 4, Oct-Dec 2014, ISSN 1614- 7138	243	259	
57	A review of Various Converter Topologies for SRM Drives George Shelly Lukose, S. Paramasivam and M. Vijaya Kumar	SAE International Journal of Alternative Powertrains, Volume3, Issue1 (May 2014). (SCOPUS)			2.8
58	ZVS Multi-Output Push-Pull QRC Using Analog Controller UC3825 for Low Power Applications Deepa.K, M. Vijaya Kumar	AASRI Procedia by Elsevier Publications, July 2014	62	67	
59	Direct Torque Control of Induction Motor with Cascaded Multilevel inverter B. Kiran Kumar, Y.V. Sivareddy and M.Vijaya Kumar.	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering Vol. 3, Issue 12, December 2015	25	27	
60	Advanced Pulse Width Modulation Techniques for Z Source Multi Level Inverter B.M.Manjunatha, D.V.Ashok Kumar, M.Vijaya Kumar	World Academy of Science, Engineering and Technology International Journal of Electrical and Computer Engineering Vol:9, No:3, 2015. (SCOPUS)	380	385	0.3
61	Improvement of Efficiency in an Active Clamp ZVS Multi-output Flyback Converter with Voltage Doubler by using UC3825 Analog Controller Deepa.K, Santhi Mary Kurian, M. Vijaya Kumar	International Journal of Applied Engineering Research Vol. 10 No. 1 2015(SCOPUS)	1671	1685	0.2
62	Soft Switched Multi-output Flyback Converter with Voltage Doubler Deepa.K, Hridya Merin Saju, M. Vijaya Kumar	International Journal of Power Electronics and Drives Systems(IJPEDS) Volume6, No.2, June 2015. (SCOPUS)	396	403	2.4
63	Simulation and Analysis of Adaptive Control Method Employed for Matrix Converter Dr.M.Vijaya Kumar , G.Pandu Ranga Reddy, Santhi M.M	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering Vol:4, Issue2, February 2015.	908	917	3
64	Design Of Novel Cascaded Multilevel Inverter By Series Of Sub Multilevel Inverters BollaMadhusudana Reddy, Dr.Y.V.Siva Reddy, Dr.M.Vijaya Kumar	IOSR Journal of Electrical and Electronics Engineering(IOSR-JEEE) Volume 10, Issue 4 Ver, II(July-Aug 2015)	25	30	

65	Torque Control of BLDC Motor using ANFIS Controller M. Anka Rao, M. Vijaya Kumar, H. Jagadeeswara Rao	International Journal for Scientific Research & Development Volume - 3, Issue - 8, 2015.	175	181	4.39
66	Generalized Scalar PWM Algorithms for Diode Clamped Multilevel Inverter fed Vector Controlled Drives P. Rama Mohan, T. Brahmananda Reddy, M. Vijaya Kumar	Acta Electrotechnica et Informatica, Vol.16, No.4.,2016	27	32	
67	Design of High Accurate Data Acquisition System for Real Time Monitoring of Power Grid A. Muni Sankar, T. Devaraju, M. Vijaya Kumar, P. Sudharshan	International Journal of Scientific and Research Publications, Volume 7, Issue 7, July 2017	610	615	4
68	Optimal Placement of Distributed Generation using Bacterial Foraging Optimization in an Electrical Distribution System J. A. Baskar , Dr. R. Hariprakash, Dr. M. Vijayakumar	International Journal of Engineering Research & Technology, Vol.6, Issue 6, 2017	244	250	3
69	Comparison of Bacterial Foraging Optimization and Artificial Bee Colony Optimization Technique for Distributed Generation Sizing and Placement in an Electrical Distribution System J.A. Baskar, R. Hariprakash, M.Vijaya Kumar	International Journal of Engineering Sciences & Research Technology, June 2017	1	6	3
70	A simplified PWM technique for isolated DC-DC converter fed switched capacitor multi-level inverter for distributed generation. Manjunatha, B.M., Ashok Kumar, D.V., Vijaya Kumar, M.	International Journal of Power Electronics and Drive Systems, 2017. (SCOPUS)			2.4
71	A comparative study and experimental investigation of continuous and discontinuous PWM algorithms for VSI fed induction motor drive, Nayeemuddin, M., Bramhananda Reddy, T., Vijaya Kumar, M.	International Journal of Applied Engineering Research 12(Special Issue 1), 2017. (SCOPUS)	272	282	0.2
72	Space Vector Based Random Discontinuous PWM Schemes for VSI fed AC Drives for Reduced Harmonic Distortion, Accoustic Noise and Switching Loss Nayeemuddin, M., Bramhanada Reddy, T., Vijaya Kumar, M., C. Srinivasa Rao	Acta Electrotechnica et Informatica, Vol.17, No.1, 2017	41	48	

73	Analysis and implementation of impedance source based Switched Capacitor Multi-Level Inverter B.M.Manjunatha, D.V.Ashok Kumar, M.Vijaya Kumar	Engineering Science and Technology, An International Journal, 21 (2018)(SCI, SCOPUS)	869	885	9.5
74	Level shifted discontinuous PWM algorithms to minimize common mode voltage for cascaded multilevel inverter fed induction motor drive Nayeemuddin, M., Bramhananda Reddy, T., Vijaya Kumar, M.	International Journal of Power Electronics and Drive Systems, 2018. (SCOPUS)			2.4
75	Analysis and design of a robust controller for a grid-connected photovoltaic power plant. Nagaraja, Y., Vijaya Kumar, M., Deva Raju, T.	International Journal of Ambient Energy, 2018. (SCOPUS)(ESCI)			2.7
76	Sensorless control of IPMSM drive using EKF with electromegnetic noise effect. NarasimhaiahAchari, K., Ashok Kumar, D.V., Vijaya Kumar, M.	International Journal of Power Electronics and Drive Systems, VOLUME 9, ISSUE 1, 2018. (SCOPUS)	157	165	2.4
77	DSP-based identification, classification and mitigation of power quality disturbances using UPQC AM Sankar, TD Raju, Vijaya Kumar, M.	International Journal of Ambient Energy, 2018. (SCOPUS)(ESCI)	1	9	2.7
78	A Comparative Study of Two Level and Cascaded Multilevel Inverter fed Induction Motor Drive Nayeemuddin, M., Bramhanada Reddy, T., Vijaya Kumar, M.	International Journal for Research in Applied Science & Engineering Technolgy, Vol-6, Issue-11,2018.	987	992	
79	Experimental Validation of Common Mode Voltage Reduction PWM Algorithms in VSI fed AC Drives Nayeemuddin, M., Bramhanada Reddy, T., Vijaya Kumar, M.	Internationl Journal of Scientific Research and Review, Volume-7, Issue-1, 2018.	34	40	0
80	Performance evaluation of multiple carrier scalar PWM algorithms for cascaded multilevel inverter fed induction motor drive Nayeemuddin, M., Bramhanada Reddy, T., Vijaya Kumar, M.	International Journal of Recent Technology and Engineering 8 (1 Special Issue 4), 2019.	160	165	
81	Simulation and analysis of Perturb and Observe MPP tracking algorithm under uniform and non-uniform irradiation Sreenivasa Reddy, G., Bramhananda Reddy, T., Vijaya Kumar, M.	International Journal of Recent Technology and Engineering Volume-7 Issue-5, January 2019	121	126	

82	A fuzzy based synchronous flux weakening control with flux linkage prediction for doubly-fed wind power generation systems Rama Sekhara Reddy, M., Vijaya Kumar, M., Mahesh, M.	International Journal of Recent Technology and Engineering Volume-7 Issue-5, January 2019	42	48	
83	Implementation of intelligent algorithms for pitch angle and output power control of DFIG wind turbine system Priyadarsini, N., Ramasekhara Reddy, M., Vijaya Kumar, M.	International Journal of Recent Technology and Engineering Volume-8 Issue-2, July 2019	2046	2050	
84	Improvement of induction motor Torque characteristics by model predictive current controller Poondla, Dharmendra Kumar, Prasanth sai,C, Vijaya Kumar, M.	International Journal of Recent Technology and Engineering Volume-8 Issue-2, July 2019	5578	5583	
85	Coordination of over current relays in distributed generation Kosaleswara Reddy, T., Devaraju, T., Vijaya Kumar, M., Paparayudu, Y.	International Journal of Recent Technology and Engineering Volume-8 Issue-2, July 2019	5836	5840	
86	Diagnosis of various faults in MLI fed induction drive using fuzzy logic Krishna Priya, Y., Vijaya Kumar, M.	International Journal of Innovative Technology and Exploring Engineering Volume-8 Issue-2, July 2019	743	746	0.6
87	Comparative study of fault mitigation techniques of level three neutral clamped inverter fed induction motor drive Krishna Priya, Y., Vijaya Kumar, M.	International Journal of Recent Technology and Engineering 7(5),2019	17	21	
88	Comparison of closed loop optimal high level novel multilevel inverter fed induction motor drive using PI and fuzzy logic controllers Madhusudana Reddy, B., Siva Reddy, Y.V., Vijaya Kumar, M.	International Journal of Recent Technology and Engineering Volume-7 Issue-5, January 2019	1365	1374	
89	GA-ANFIS PID compensated model reference adaptive control for BLDC motor Dasari, M., Srinivasula Reddy, A., Vijaya Kumar, M.	International Journal of Power Electronics and Drive Systems 10(1),2019	265	276	2.4
90	PSO based reactive power coordination of multiple dispatchable distributed generations & voltage controlled devices Sankaraiah, M., Suresh Reddy, S., Vijaya Kumar, M.	International Journal of Innovative Technology and Exploring Engineering 8(10),2019	1308	1313	
91	New Generalized SVPWM Algorithm for Multilevel Inverter A.Suresh Kumar, K. Sri. Gowri & M. Vijaya Kumar	Journal of Power Electronics, Vol.18, No.4, July 2018	1027	1036	2

92	Improvement of fast initial speed estimation using fuzzy logic control technique for induction motors in the low speed range Mogili, A.R., Kadiri, S.S., Vijaya Kumar, M	International Journal of Innovative Technology and Exploring Engineering 8(11),2019	3004	3011	
93	Speed Estimation of Induction Motor Drive by Second-Order Sliding Mode MRAS with Adaptive Neural Network Controller M. Ankarao, M. Vijaya Kumar, Prabha Shriwas	International Journal of Applied Engineering Research, Vol.13, No.17,2018. (SCOPUS)	13080	13084	0.2
94	A Comparative Analysis of Different MRAS Schemes for Speed Sensorless Induction Motor Drives Employing PI and Fuzzy Controllers M. Ankarao, M. Vijaya Kumar, K. Trija	International Journal of Applied Engineering Research, Vol.13, No.18,2018	13898	13903	
95	Experimental Study of Seven Level Magnetic Coupled Impedance Source Inverter J N Reddy, D. Lenine, M Vijaya Kumar	Journal of Scientific & Industrial Research, Vol.77, Dec 2018	705	709	1.5
96	Improved Robust Controller Design for Stabilization of Grid-Tied Photovoltaic System K R Reddy, V N Reddy, M. Vijaya Kumar	Journal of Scientific & Industrial Research, Vol.78, July 2019	431	436	1.5
97	GWO based optimal reactive power coordination of DFIG, ULTC and capacitors Sankaraiah, M., Suresh Reddy, S., Vijaya Kumar, M.	Indonesian Journal of Electrical Engineering and Computer Science 11(3),2018	805	813	1.4
98	Modeling and simulation of 127 level optimal multilevel inverter with lower number of switches and minimum THD. Madhusudana Reddy, B., Siva Reddy, Y.V., Vijaya Kumar, M.	International Journal of Power Electronics and Drive Systems 9(4),2018. (SCOPUS)	1765	1773	2.4
99	Control of single stage grid tied photovoltaic inverter using incremental conductance method Rajasekhara Reddy, K., Nagabhaskar Reddy, V., Vijaya Kumar, M.	International Journal of Power Electronics and Drive Systems 9(4),2018. (SCOPUS)	1702	1708	2.4
100	Detection and Classification of High Impedance Fault in Power Distribution System using Hybrid Technique Narasimhulu, N., Ashok Kumar, D.V., Vijaya Kumar, M.	Journal of Circuits, Systems and Computers, Vol. 29, No. 08, 2020. (SCOPUS)(SCI E)			2.1

101	Decomposition-based new space vector modulation algorithm for three-level inverter with various ADSVPWM strategies Suresh Kumar, A., Sri Gowri, K., Vijaya Kumar, M.	Journal of Circuits, Systems and Computers, Vol. 29, No. 06, 2020. (SCOPUS)(SCI E)			2.1
102	Detection of high impedance faults using extended Kalman filter with rnn in distribution system Narasimhulu, N., Ashok Kumar, D.V., Vijaya Kumar, M.	Journal of Green Engineering, 10(6), 2020. (SCOPUS)	2516	2546	0.3
103	Harmonic minimisation in direct torque controlled induction motor using neural network controller Ambarapu, S., Vijaya Kumar, M.	International Journal of Energy Technology and Policy, 16(5-6), 2020. (SCOPUS)	612	630	0.25
104	Control of BLDC motor using MRPID controller with modified landsman converter Murali Dasari, A. Srinivasula Reddy, M. Vijaya Kumar	International Journal of Intelligent Computing and Cybernetics, Oct 4, 2021 (SCOPUS)			1.404
105	Impact of distributed generation in smart grid on social surplus and locational marginal price in deregulated power market with elastic loads	Journal of Theoretical and Applied Information Technology, Nov 15, 2021 (SCOPUS)			0.595
106	An optimum location of distributed generation for social surplus maximization in smart grid with inelastic loads using bat algorithm	Journal of Theoretical and Applied Information Technology, Nov 15, 2021 (SCOPUS)			0.595
107	A comparative analysis of converters performance using various control techniques to minimize the torque ripple in BLDC drive system	Sustainable Computing: Informatics and Systems, Jan 1, 2022 (SCOPUS)			5.62
108	Modified Luo converter based FOPID controller for torque ripple minimization in BLDC drive system	Journal of Ambient Intelligence and Humanized Computing, Jan 25, 2022 (SCOPUS)			3.66
109	Modelling and analysis of DC-DC converters with AI based MPP tracking approaches for grid-tied PV-fuel cell system	Electric Power Systems Research, Dec 13, 2022 (SCOPUS)			3.414
TOTAL					114.78

National Journals

S.No	Title of Paper & Authors	Name, Volume, number and Year of publication.	Page No.		Impact Factor
			From	To	

1	Capacitor placement in radial distribution networks for loss reduction S.Sivanaga Raju, N.Sreenivasulu, M.Vijaya Kumar and T.Ramana	A Journal of systems Science and Engineering Vol.7, No.1 , Aug.2002 .	12	20	-
2	Voltage Stability Analysis for radial distribution systems S.Sivanaga Raju, N.Sreenivasulu and M.Vijaya Kumar	Journal of IE (I) , Vol-84,December 2003. (SCOPUS)	166	172	0.1
3	Fuzzy logic based robust direct torque control of high performance induction motor drive Y.P.Obulesu and M.Vijaya Kumar	National Journal of Engineering today,Vol.V,Issue11,Nov'2003.	16	19	
4	Comparison by Simulation of vector and Direct Torque Control Schemes for Induction Motor Drive Y.P.Obulesu and M.Vijaya Kumar	“PARITANTRA “ A Journal of Systems Science & Engineering, Vol.II, Number1, April 2005.	24	33	
5	Improved Stator Flux Estimation for High Performance Speed Sensorless DTC Controlled Induction Motor Drive Y.P.Obulesu and M.Vijaya Kumar	A Journal of Systems Science & Engineering, Vol.13, Number1,June 2006.	60	66	
6	A Novel Power Factor Correction Converter Employing Zero Voltage Transition Technique based Boost Topology P.Ram Mohan, O.V. Raghava Reddy, M.Vijaya Kumar and S. Rama Reddy	NICE – Journal of Emerging Technologies, Vol. 1, No. 1, July 2006.	24	31	
7	Electromagnetic Interference (EMI) Analysis and its Suppression in a Power Factor Correction Converter P.Ram Mohan, O.V. Raghava Reddy, M.Vijaya Kumar and S. Rama Reddy	NICE – Journal of Emerging Technologies, Vol. 1, No. 1, July 2006.	32	40	
8	Reactive Power Compensation using UPFC – A Case Study K.Sreelatha, K.Rama Mohan Reddy and M.Vijaya Kumar	i-manager's Journal on Electrical Engineering, Vol.1, No.1 July-Sep 2007.	5	9	3.2
9	Direct Torque Control of Induction Motor based on Fuzzy State Feedback Controller Y.V. Siva Reddy, M.Vijaya Kumar and T.Brahmananda Reddy	i-manager's Journal on Electrical Engineering, Vol.1, No.1 July-Sep 2007.	25	29	3.2
10	Non linear Model for Switched Reluctance Motors K.V.Reddy and M.Vijaya Kumar	Journal of IE (I) , Vol-89,March 2009. (SCOPUS)	3	8	0.1
11	Torque Control and Torque Ripple Minimization of Switched Reluctance Motors K.V.Reddy and M.Vijaya Kumar	i-manager's Journal on Electrical Engineering, Vol.2, No.4 , April-June 2009. ISSN 0973-2632	1	7	3.2

12	Localization of Faults in a Single Fed Transmission Line using Gabor Wavelet B.Ravindranath Reddy, M.Vijaya Kumar and Y.Venkata Raju	i-manager's Journal on Electrical Engineering, Vol.3, No.1 , July-September, 2009.			3.2
13	Direct Instataneous Torque Control of Switched Reluctance Motors K.V.Reddy and M.Vijaya Kumar	Journal of IE (I) , Vol-92, June 2011. ISSN 0020-3386 (SCOPUS)	16	21	0.1
14	Hybrid Fuzzy- PI Controller for the Speed Control of Switched Reluctance Motors K.V.Reddy and M.Vijaya Kumar	i-manager's Journal on Electrical Engineering, Vol. , No. , April-June 2011. ISSN 0973-2632			3.2
15	Torque Ripple Reduction in Direct Torque Control Based Induction Motor using Intelligent Controller Ambarapu Sudhakar & M. Vijaya Kumar	Journal of The Institution of Engineers (India) Ser. B,96. (SCOPUS)(UGC)	297	304	1
16	Simple and Efficient High-Performance PWM Algorithm for Induction Motor Drives P. Rama Mohan, T. Bramhananda Reddy, M.Vijaya Kumar	Journal of Electrical Engineering (JEE) Volume 11/2011, Edition:4, Article:11.4.4	23	30	4.85
17	Minimization of Torque Ripple by SVM in Direct Torque Control of PMSM Drives. A.Sudhakar, M.Vijaya Kumar	i-manager's Journal on Electrical Engineering, Volume5, No.2, October- December 2011	55	59	3.2
18	Impact of Fuel Cell Based Hybride Distributed Generation in Generation in an Electrical Distribution system J.A. Baskar, R. Hariprakash, M.Vijaya Kumar	Journal of Theoretical and Applied Information Technology 31 st July 2012. Vol.41 No.2			
19	Real – Time Designing and Modeling of Online Monitoring of Energy Consumption using GPRS System P.Sujatha, P. Ram Kishore Kumar Reddy and M. Vijaya Kumar	i-manager's Journal on Electrical Engineering, Volume5, No.2, October- December 2011	49	54	3.2
20	Decentralized linear quadratic power system stabilizers for multi-machine power systems A.Venkateswara Reddy, M. Vijaya Kumar and GurunathGurralla	Indian Academy of Scineces,Volume-37, Part4, August 2012.	521	537	3.2
21	High Efficiency Single Output ZVS-ZCS Voltage Doubled Flyback Converter Deepa.K, Hridaya Merin Saju, M. Vijaya Kumar	Journal of The Institution of Engineers (India) Ser. B,97,2016 (SCOPUS)	139	146	1
22	Topologies In Matrix Converter- A Review G.Pandu Ranga Reddy, M.Vijaya Kumar	i-manager's Journal on Electrical Engineering, Vol 9 No1 July-September 2015	18	25	3.2

23	Evaluation of Impedance network Based 7-Level Switched Capacitor Multi Inverter for Single Phase Grid Integrated System B.M. Manjunatha, D.V. Ashok Kumar and M.Vijaya Kumar	Journal of The Institution of Engineers (India) Ser. B,99 2018(SCOPUS)	623	633	1
24	A Novel Space Vector Approach using Shoot Through State for Three Level Z Source Inverter B.M. Manjunatha, D.V. Ashok Kumar and M.Vijaya Kumar	Emerging Trends in Electrical, Communications and Information Technologies, Lecture Notes in Electrical Engineering, vol 394. (SCOPUS)	385	394	0.5
25	A Novel Multilevel Inverter with Minimum Switches B.M. Manjunatha, D.V. Ashok Kumar and M.Vijaya Kumar	i-manager's Journal on Electronics Engineering, Vol. 6 No2 July-December 2015	36	41	3.2
26	Multilevel Inverter with Space Vector Modulation: Intelligence Direct Torque Control of Induction Motor B.Kirankumar, Y.V. Siva Reddy, M.Vijaya Kumar	IET Power Electronics, Volume: 10, Issue: 10 ,2017. (SCOPUS)	1	6	5.5
27	Experimental Results of CLL Resonant DC to DC Converter for Stand Alone Wind Energy System M. Annamalai and M. Vijaya Kumar	i-manager's Journal on Electrical Engineering, Vol. 5 No1 July-Sep 2011	57	63	3.2
28	Design of VSWT with LCL Resonant DC to DC Converters for RL Load M. Annamalai and M. Vijaya Kumar	Indian Streams Research Journal Voume 2, Issue 7, Aug 2012			3.16
29	FPGA based Recognition and Categorization of Power Quality Disturbances with Fuzzy classifier A. Muni Sankar, T. Devaraju, M. Vijaya Kumar	Journal of Electrical Engineering, Volume 17 / 2017 - Edition : 3	63	68	4.85
30	Two Level Versus Matrix Converters Performance in Wind Energy Conversion Systems Employing DFIG G. Pandu Ranga Reddy, M. Vijaya Kumar	Journal of The Institution of Engineers (India) Ser. B,98,2017 (SCOPUS)	503	515	1
TOTAL					58.36

International Conferences

S.No	Title of Paper & Authors	Name, Volume, number and Year of publication.	Page No.	
			From	To
1	Optimal conductor selection for radial distribution systems S.SivaNagaraju, N.Sreenivasulu, M.Vijaya Kumar and D.Das	International Conference on Energy, Automation and Information Technology (EAIT – 2001) , 10-12 Dec-2001 , IIT Kharagpur	441	444
2	A novel approach in radial distribution systems for cost of loss reduction S.SivaNagaraju, N.Sreenivasulu, M.Vijaya Kumar and T.Ramana	International Conference on Computer Applications in Electrical Engineering Recent Advances (CERA-2001) , 21-23 Feb.2002 , IIT Roorkee	102	110
3	Design and simulation of a improved high performance direct torque control of Induction motor drive Y.P.Obulesu and M.Vijaya Kumar	International Conference on energizing technology , Dec 19-21,2003 , Kalinga Institute of Technology , Orissa.		
4	PC Based measurement of energy and Maximum Demand – Simulation Graphic Implementation and Actual measurement using analog signals” M.BhaskaraReddy, M.VijayaKumar , Y.Venkatarami Reddy and K. Mala Kondaiah	International Conference ECCAP – 2000 held at Chennai , January 4-7 , 2000,	254	257
5	A New Approach for Elimination of Common Mode Voltages Generated in Medium Voltage CSI fed Induction Motor Drive Y.P.Obulesu and M.Vijaya Kumar	International Conference on Resource Utilisation& Intelligent Systems, KonguEngg College, Perundurai,Erode,Jan4-6,2006	1	8
6	Direct Torque Control of Induction Motor Drive based on Random Position SVPWM for Reduction of Acoustical Noise: A Fuzzy State Feedback and Fuzzy Variable Structure Controller Approach Y.V.Siva Reddy , T.Brahmananda Reddy M.Vijaya Kumar , B.Kalyan Reddy and J.Amarnath	PCEA – IFToMM International Conference PICA-2006Recent Advances in Automation & its Application to Industries, Priyadarshini College of Engg& Architecture, Nagpur, July 11-14,2006	88	
7	Modified Sine-Triangle and Space Vector PWM Techniques for Active Commutated Thyristor CSI P.U.S.Raja Sekhar, J.S. Siva Prasad, M.Vijaya Kumar and T.Jayabarathi	PCEA – IFToMM International Conference PICA-2006Recent Advances in Automation & its Application to Industries, Priyadarshini College of Engg& Architecture, Nagpur, July 11-14,2006	119	
8	A Novel DSP Based Sine Pulse Width Modulated (SPWM) Inverter for Motor Load with Improved Power Factor and Speed Control P.Ram Mohan, O.V. Raghava Reddy, M.Vijaya Kumar and D.Subba Rayudu	PCEA – IFToMM International Conference PICA-2006Recent Advances in Automation & its Application to Industries, Priyadarshini College of Engg& Architecture, Nagpur, July 11-14,2006	126	

9	An Electromagnetic Interference (EMI) Filter to Power Factor Correction (PFC) Converter P.Ram Mohan, O.V. Raghava Reddy, M.Vijaya Kumar and D.Subba Rayudu	PCEA – IFToMM International Conference PICA-2006Recent Advances in Automation & its Application to Industries, Priyadarshini College of Engg& Architecture, Nagpur, July 11-14,2006	124	
10	A New Space Vector Pulse width Modulation for Reduction of Common Mode Voltage in Direct Torque Controlled Induction Motor Drive Y.V.Siva Reddy , T.Brahmananda Reddy and M.Vijaya Kumar	PEDES-2006: IEEE International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth,NewDelhi,Dec 12-15,2006	2C-25	
11	A Performance Analysis of Simultaneously Controlled UPFC under Varied Metrics T.Devaraju, M.Vijaya Kumar and V.C.Veera Reddy	International Conference on “Recent Advances and Applications of Computer in Electrical Engineerin, Engineering College, Bikaner, Rajastan,24-25 March,2007		
12	Novel Random Position SVPWM Algorithm for Direct Torque Controolled Drives using the Concept of Imaginary Switching Times Y.V.Siva Reddy, M.Vijaya Kumar andT.Brahmananda Reddy	Proceedings of the International Conference ICEEP, SRM University, Chennai, April 13-15, 2009.	---	---
13	A New Space Vector Based PWM Algorithm for Direct Torque Controlled Induction Motor Drive for Reduced Common Mode Volatage Y.V.Siva Reddy, M.Vijaya Kumar andT.Brahmananda Reddy	International Conference on Emerging Trends in Electrical Engineering, Kolkata, India, 12-14 Jan, 2007.	---	---
14	Direct Torque Control of Induction Motor Drive Based on Random Position SVPWM for Reduction of Acoustical Noise: A Fuzzy State Feedback and Fuzzy Variable Structure Controller Approach Y.V.Siva Reddy , T.Brahmananda Reddy, M.Vijaya Kumar , J.Amarnath and B.Kalyan Reddy.	PCEA-IFTOMM International Conference PICA 2006, Nagpur, India, Paper No. TG2208, July 11-14, 2006.	---	---
15	Localization of Faults in a Transmission Line using Wavelet Techniques B.Ravindranath Reddy and M.Vijaya Kumar	CEIDP in Vancouver, British Coloumbia, Canada, 14-17 October ,2007.		
16	Fault Detection, Classification and Location on Transmission Lines using Wavelet Transform B.Ravindranath Reddy and M.Vijaya Kumar	IEEE Conference on Electrical Insulation and Dielectric Phenomena, Virginia Beach, USA,18-21 October,2009.		
17	Modeling and Digital Simulation of STATCOM using Simulink N.Usha and M.Vijaya Kumar	ICEESPEEE International Conference, SRM University, Chennai Feb2009	1316	1320

18	A High- Performance PWM Algorithm for Vector Controlled Induction Motor Drive for Reduced Current Rippple HPPWM Based Vector Controlled Induction Motor Drive P. Rama Mohan, T. Brahmananda Reddy and M.Vijaya Kumar	IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE-2014), May09-11, 2014, Jaipur, India		
19	Intelligent Control for the Performance Improvement of DFIG based Wind Turbine System Using Matrix Converter G. Panduranga Reddy, J.N. Chandra Sekhar, P.D. Prasad Reddy, M.M. Santhi and M.Vijaya Kumar	International Conference on Advanced Electrical Systems & Applications ICAESA-2014		
20	A new FOC Technique Based on Predictive Current Control for PMSM drive Powered with Photovoltaic Array B.Gururaj, K. NarasimhaiahAchari, D.V. Ashok Kumar and M. Vijaya Kumar.	DRDO Sponsored Eighth Control Instrumentation System Conference, CISCON-2011 (An International Conference)		
21	A Matalab/ Simulink Model for Field Oriented Control of PMSM Using SVPWM Technique G. Dilli Babu, K. NarasimhaiahAchari, D.V. Ashok Kumar and M. Vijaya Kumar.	RITS ICAEM-2012: RITS- International Conference on Advancements in Engineering & Management, 28 & 29 Feb 2012		
22	Comparison of DC utilization of Z-Source Inverter with advanced Modulating Techiques B.M. Manjunatha, D.V. Ashok Kumar and M.Vijaya Kumar	International Conference ICRITES'14 March15-16,2014, Nashik, Maharashtra,India		
23	ZVS Multi-Output Push-Pull QRC Using Analog Controller UV3825 for Low Power Applications K.Deepa, M. Vijaya Kumar	2013 2 nd AASRI Conference on Power and Energy Systems AASRI, Procedia7(2014)	62	67
24	PWM Closed Loop Controlled Multi-Output Push-Pull Converter Deepa.K, Padmaja.P.J, M. Vijaya Kumar	International Conference on Control, Communication, & Computing, ICCCC, December 13-15, 2013	426	429
25	Closed Loop Controlled Solar Fed Post Regulated Push-Pull Converter Deepa.K, Ajith Vijayan, M. Vijaya Kumar	International Conference on Control, Communication, & Computing, ICCCC,December 13-15, 2013	409	413
26	Soft Switching Flyback Converter for SMPS Applications Deepa.K, Hridya Merin Saju, M. Vijaya Kumar	International Conference on Control, Communication, & Computing, ICCCC, December 13-15, 2013	475	478
27	New Multi-output Switching Converter with Low Drop Out Post Regulator Deepa.K, Deepti, M. Vijaya Kumar	International Conference on Emerging Trends in Communication, Control, Signal Processing & Computing Applications, C2SPCA,Oct-2013		

28	Bi-Directional Push-Pull Converter Fed Four Quadrant DC Drive Deepa.K, Mahalakshmi, Yuvashri, M. Vijaya Kumar	International Conference on Emerging Trends in Communication, Control, Signal Processing & Computing Applications, C2SPCA, Oct-2013		
29	Cascaded Multi Output Push-Pull Converter Deepa.K, Padmaja, M. Vijaya Kumar	International Conference on Advances in Electrical Engineering, ICAEE, January 9-11, 2014		
30	Fuzzy based flyback Converter Deepa.K, R.Jeyanthi, Shwetha Mohan and M. Vijaya Kumar	International Conference on Advances in Electrical Engineering, ICAEE, January 9-11, 2014		
31	Performance analysis of a DC Motor Fed from ZCS-Quasi-resonant Converters K.Deepa, M. Vijaya Kumar	2012 IEEE Fifth Indian International Conference on Power Electronics (IICPE 2012) December 6-8, 2012		
32	Implementation of a New Multi output Push-Pull Primary ZVS Converter K.Deepa, Sharika, M. Vijaya Kumar	2012 IEEE Fifth Indian International Conference on Power Electronics (IICPE 2012) December 6-8, 2012		
33	Implementation of a SISO-ZVS Push-Pull Converter Fed DC Servo Motor K.Deepa, Sharika, M. Vijaya Kumar	2012 IEEE Fifth Indian International Conference on Power Electronics (IICPE 2012) December 6-8, 2012		
34	An Improved Push-Pull Converter with ZVS-ZCS in Active and Passive Switches for Low Voltage Applications K.Deepa, M. Vijaya Kumar	International conference on control system and power Electronics – CSPE, December 03-04, 2012	519	524
35	Efficient and Compact Power Supply for Robotic Application K. Deepa, Jeyanthi, M. Vijaya Kumar	Advances in Recent Technologies in Communication and Computing – ARTCom 2012, Fourth International Conference, October 19-20, 2012		
36	Sensor less Speed Control of PMSM using an Improved sliding model observer k. Narsimhaiah Achari, B. Gururaj, D.V. Ashok Kumar and M. Vijaya Kumar	International Conference on Emerging Trends in Electrical, Electronics and Communication Technologies – ICECIT, 2012		
37	Novel Approach for the Design of State Feedback Power Systems Stabilizers A.Venkateswara Reddy, M. Vijaya Kumar and Gurunath Gurralla	2010 International Conference on Power System Technology		
38	Space Vector based Random PWM algorithms for Acoustic Noise and Harmonics Reduction for Voltage Source Inverter fed AC Drive Nayeemuddin, M., Bramhanada Reddy, T., Vijaya Kumar,	1 st International Conference on Power Engineering, Computing and Control, 24 th March 2017, VIT University, Chennai		
39	Comparison of Open Loop System CLL & LCL Resonant DC to DC Converters M. Annamalai and M. Vijaya Kumar	International Conference on Nanoscience, Engineering and Technology (ICONSET 2011), Publisher: IEEE, 28-30 November 2011,	597	600
40	Modeling & Simulation of Variable Speed Wind Turbine with Resonant DC-DC Converters M. Annamalai and M. Vijaya Kumar	International Conference on Power Electronics, Systems and Applications (ICPESA2012) Aug 25-26, Kuala Lumpur (Malaysia)	201	208

41	Classification of Power Quality Disturbances using Discrete Wavelet Transform and Fuzzy Classifier A. Muni Sankar, T. Devaraju, M. Vijaya Kumar	ICECIT 2012, Elsevier India, Feb 2012		
42	Dynamic Voltage Stability Enhancement of A Wind Farm Connected To Grid Using Facts- A Comparison <u>SreeLatha K., Vijaya Kumar M.</u>	2018 International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET), Publisher: IEEE, Date of Conference: 21-22 Dec. 2018	1	4
43	Implementation of Random Pulse Width Modulation Techniques for the Open-End Winding Five-Phase Motor Drives to Reduce Acoustic Noise and Harmonic Distortion Balakrishna, J., Bramhananda Reddy, T., Vijaya Kumar, M	International Conference on Signal and Data Processing ICSDP 2019, Pune, Maharashtra, 15th - 16th November 2019. [Lecture Notes in Electrical Engineering, 2021.]	429	457
44	Configurations and Control Strategy of a Single Stage Grid Connected PV System Rajasekhara Reddy, K., Nagabhaskar Reddy, V., Vijaya Kumar, M., Tummala, S.K.	E3S Web of Conferences, 2020		

National Conferences

S.No	Title of Paper & Authors	Name, Volume, number and Year of publication.	Page No.	
			From	To
1	A novel approach for rotor flux Oriented control of induction motor drive with current controlled inverter Y.P.Obulesu and M.Vijaya Kumar	Institution of Engineers,(India) Three day all India seminar on solid state switching Devices&applications:Progress and Prospects, 14-16 July 2002	5.20	5.28
2	Design and simulation of field oriented control of VSI fed Induction motor drive Y.P.Obulesu and M.Vijaya Kumar	26 th National System Conference, Nov 18 th to 19 th ,2002	3.2.1	3.2.10
3	A modified approach for high performance indirect vector control of induction motor drive Y.P.Obulesu and M.Vijaya Kumar	National conference on Recent trends in industrial Electronics, drives & controls, March 22 to 23, 2003, Annamalai university	19	26
4	Dynamic model of high performance induction motor drive for vector and direct torque controls Y.P.Obulesu and M.Vijaya Kumar	National conference on Recent trends in industrial Electronics, drives & controls, March 22 to 23, 2003, Annamalai university	27	34

5	Fuzzy logic based robust direct torque control of high performance induction motor drive Y.P.Obulesu and M.Vijaya Kumar	National conference on Emerging trends in engineering Technology & management 8-9 sept2003, Adhiyaqmma Engineering college, Tamilnadu	45	52
6	Fuzzy based duty ratio control for direct torque control of induction motor drive” Y.P.Obulesu and M.Vijaya Kumar	National conference on trends in instrumentation & control engineering, Thapar institute of Engineering& technology, Patayiala, Feb 5-6,2004	141	147
7	IC Based Control for Three-phase Delta connected power controller to RF Induction Heater” M.Vijaya Kumar and Ch.Sai Babu	National Conference held at University of Roorkee, Roorkee. January 20-21, 1997		
8	Simple methods of measurement of phase angle for PC Microprocessor / Micro controller based instruments” M.BhaskaraReddy,M.VijayaKumar, Y.Venkatarami Reddy and K. Mala Kondaiah	23 rd National Conference held at Institute of Technology, BHU, Varanasi, December 9-11, 1999	201	204
9	Measurement of energy and other parameters using PC based Data Acquisition card with a Multipliser” M.BhaskaraReddy,M.VijayaKumar, Y.Venkatarami Reddy and K. Mala Kondaiah	23 rd National Conference held at Institute of Technology, BHU , Varanasi , December 9-11 , 1999		393
10	Specific energy consumption and energy conservation incase of batteries manufacturing process-A Case Study M.Vijaya Kumar, Y.Venkatarami Reddy, K. Mala Kondaiah and K.Yugandhar	National Conference-2000 organized by Institution of Engineers (Cuddapha Local center) March 15,2000		
11	Microprocessor Digital I.C’s based design of Digital Display for Analog Energy meters M.Vijaya Kumar, K.U.Maheswara Reddy, Y.Venkatarami Reddy and K. Mala Kondaiah	National Conference-2000 organized by Institution of Engineers (Cuddapha Local center) March 15,2000		44
12	P.C.Based online measurement power and energy using proportional analog signals M.Vijaya Kumar, K.V.P. Pavan Kumar, Y.Venkatarami Reddy and K. Mala Kondaiah	National Conference-2000 organised by Institution of Engineers (Cuddapah Local center) March 15,2000		42
13	Sizing of power distribution transformers based on maximum demand estimation-case studies M.Vijaya Kumar , Y.Venkatarami Reddy and K.Malakondaiah	National Conference-2000 organised by Institution of Engineers (Cuddapah Local center) March 15,2000	38	
14	PC Based multiplexed energy measurement with animation implemented on Graphical user Interface M.Vijaya Kumar et al.	National Seminar SASESC-2000, Dayalbagh, March 4-5, 2000		

15	Micro controller based Elevator Control Y.V.Siva Reddy, K.U.Maheswara Reddy, K.V.Phani Pavan Kumar and M.Vijaya Kumar	National Conference-2000 organised by Department of Mechanical Engineering, JNTU College of Engineering, and Anantapur. June 22-24, 2000	197	200
16	Micro controller based Stepper Motor Control Y.V.Siva Reddy, K.U.Maheswara Reddy, K.V.Phani Pavan Kumar and M.Vijaya Kumar	National Conference-2000 organised by Department of Mechanical Engineering, JNTU College of Engineering, and Anantapur. June 22-24, 2000	201	204
17	Wind Power ECO – Friendly Electrical Power Generation T.Chandra Sekhar and M.Vijaya Kumar	National Conference-2001 organised by Department of Mechanical Engineering, JNTU College of Engineering, Anantapur. October 18, 2001	533	538
18	Radial distribution System planning S.Sivanagaraju, N.Sreenivasulu and M.Vijaya Kumar	National Conference on QR Power, 13-15, Oct.2000, Nagpur	66	71
19	New method of load flow solution for radial distribution networks S.Sivanaga Raju, N.Sreenivasulu and M.Vijaya Kumar	All India Seminar, Power System Recent advances and Prospects in 21 st century, 17 th Feb.2001, Jaipur	226	233
20	Voltage stability for radial distribution networks S.Sivanaga Raju, N.Sreenivasulu, M.Vijaya Kumar and T.Ramana	25 th National Systems Conference (NSC-2001) 13-15 Dec.2001, P.S.G.College of Technology, Coimbatore	241	247
21	A new approach for optimal capacitor placement in distribution systems S.Sivanaga Raju, N.Sreenivasulu, M.Vijaya Kumar and K.Satish Kumar	National Conference on Recent Trends in Electrical Energy Conservation and Management, 2-3 March 2002, Annamalai University.	257	265
22	Comparison by Simulation of Vector and Direct Torque Control Schemes for Induction Motor Drive Y.P.Obulesu and M.Vijaya Kumar	National Conference on Recent Advances in Electrical Engineering (EAR-2004), 4 th December 2004, JTNU College of Engineering, Anantapur	4	11
23	Power Factor Correction in AC – DC Converters with Boost Topology P.Ram Mohan, M.Vijaya Kumar and D.Subba Rayudu	National Conference on Recent Advances in Electrical Engineering (EAR-2004), 4 th December 2004, JTNU College of Engineering, Anantapur	68	74
24	Sensorless Control of Induction Motor using Extended Kalman Filter D.Sleeve Reddy, C.Pavan Kumar, M.Vijaya Kumar and K.Sudhakar Reddy	National Conference on Recent Advances in Electrical Engineering (EAR-2004), 4 th December 2004, JTNU College of Engineering, Anantapur	75	78
25	Voltage Regulators for Self Excited Induction Generator T.Chandra Sekhar, BishnuP.Muni and M.Vijaya Kumar	National Conference on Recent Advances in Electrical Engineering (EAR-2004), 4 th December 2004, JTNU College of Engineering, Anantapur	94	101

26	Hybrid model of Solar Cell R.Kiranmayi, K.Vijaya Kumar Reddy and M.Vijaya Kumar	National Conference on Recent Advances in Electrical Engineering (EAR-2004), 4 th December 2004, JTNU College of Engineering, Anantapur	213	217
27	Torque Ripple Minimization of Direct Torque Control of Induction Motor using SVM Technique Y.P.Obulesu and M.Vijaya Kumar	National Conference on Power Engineering Practices & Energy Management,PEPEM'05,Thapar Institute of Engineering & Technology, Patiala,Jna28-29,2005	55	59
28	Neural Network Based Speed and Flux Estimation for Sensor less Vector Control of Induction Motor Y.P.Obulesu and M.Vijaya Kumar	National Conference on Power Engineering Practices & Energy Management,PEPEM'05,Thapar Institute of Engineering & Technology, Patiala,Jna28-29,2005	60	63
29	Fuzzy Speed Controller Based Direct Torque Control of Induction Motor Drive Y.P.Obulesu and M.Vijaya Kumar	28 th National Systems Conference,NSC-2004,Vellore Institute of Technology,Vellore,16-18 December,2004	125	130
30	Comparison of EEM with Standard Motor under Various Operating Conditions-Case Studies M.Narendra Kumar, P.Sujatha, M.Vijaya Kumar and K.S.R.Anjaneyulu	National Conference on Recent Advances in Electrical Engineering (EAR-2005), 10 th December 2005, JTNU College of Engineering, Anantapur	107	112
31	Direct Torque Control of Induction Motor Based on Fuzzy State Feed Back Controller Y.V.Siva Reddy , M.Vijaya Kumar and T.Brahmananda Reddy	National Conference on Recent Advances in Electrical Engineering (EAR-2005), 10 th December 2005, JTNU College of Engineering, Anantapur	146	150
32	Sensorless Direct Torque Control of Induction Motor Based on Discrete Space Vector Modulation, a Fuzzy Logic Approach T.Brahmananda Reddy , J.Amarnath, D.SubbaRayudu,Y.V.Siva Reddy and M.Vijaya Kumar	National Conference on Recent Advances in Electrical Engineering (EAR-2005), 10 th December 2005, JTNU College of Engineering, Anantapur	151	156
33	A Novel Electro Magnetic Interference Filter(EMI) for a Power Electronic Power Factor Correction Circuit P.Ram Mohan, M.Vijaya Kumar and D.Subba Rayudu	National Conference on Recent Advances in Electrical Engineering (EAR-2005), 10 th December 2005, JTNU College of Engineering, Anantapur	157	162
34	Voltage Stability using Continuation Power flow Method T.Devaraju, V.C.Veera Reddy and M.Vijaya Kumar	Recent Advances in Electrical Engineering, JNTU, Anantapur, 26-27 Dec, 2008.		
35	Power Quality Issues and Mitigation using DVR T.Devaraju, V.C.Veera Reddy and M.Vijaya Kumar	National Conference on "Control of Power Electronic Drives and Systema"(CEPEDS-2010),Andhra University, Visakhapatnam, 30-31 May, 2010		

36	Direct Torque Control of Induction Motor Drive based on Random Position SVPWM for Reduced Acoustical Noise Y.V.Siva Reddy , M.Vijaya Kumar and T.Brahmananda Reddy	National Power Systems Conference NPSC'06, IIT Roorkey, India, 27-29, Dec 2006.		
37	A Review Paper for MPPT Algorithms for Wind Energy System G. Pandu Ranga Reddy, M. Ramashakar Reddy and Dr. M. Vijaya kumar	National Conference on Advanced Electrical Systems and Applications (June, 2013)		
38	A Simple Generalized PWM Algorithm for Vector Controlled Induction Motor Drives GPWM Based Vector Controlled Induction Motor Drive P. Rama Mohan, T. Brahmananda Reddy and M.Vijaya Kumar	AICERA2014 Conference (IEEE Conference) Amal Jyoti College of Engg., Kanjirapally, Kottayam(Dist.), Kerala.		
39	Impact of Reactive Power Due to 3-Phase to Ground Fault on wind Farm G. Suhakar Reddy, M. Rama Sekhara Reddy and M. Vijaya Kumar	CSIR Sponsored National Conference on Intelligent Power Electronics and Technology 2 nd March-2012	41	45
40	Design of Closed Loop LCL-T Resonant DC to DC Converter M. Annamalai and M. Vijaya Kumar	National Conference on Power Electronics in Sustainable Energy Development, December 19-20,2011		

Books Published

Title of Book: Continuous, Discontinuous & Level shifted PWM Algorithms for IM Drive by

Authors: M.Nayeemuddin, T.Bramhananda Reddy, M.Vijaya Kumar,

Published in: LAP Lambert Academic Publishing (2018).

ISBN-13: 978-613-9-89905-0

ISBN-10: 6139899052

RESEARCH PROJECTS

Major Research Projects

Acted as Principal Investigator of Major Research project titled "Fuzzy and Artificial Neural Network Based Controllers for Vector Controlled Induction Motor Drives" worth Rs.7.35 lakhs in the financial year 2004-05.

Minor Research Projects

Acted as Chief Co-ordinator of TAPTEC Project titled “ Microcontroller/ Microcomputer Based Instrumentation” worth Rs.5.00 lakhs sanctioned by AICTE in the financial year 1996-97.

STATE AND NATIONAL AWARDS RECEIVED

State and National Awards Received

- Received **The Pandit Madan Mohan Malaviya Memorial Prize** from The Institution of Engineers (India) on 17.12.2004.
- Received **The Institute Prize** from The Institution of Engineers (India) on 17.12.2004.
- Received **Certificate of Merit** from The Institution of Engineers (India) on 11.12.2009
- Received the **Best Teacher Award** from AP State Government on 05.09.2015

MEMBERSHIP IN ACADEMIC BODIES

Membership in Academic Bodies

- Senior Member IEEE 95034237
- Life Member of Indian Society for Technical Education (ISTE) – LM 14250
- Life Member of System Society of India (SSI) – LM 26008
- Fellow of Institution of Engineers (India) - FIE (F 112671-3)

Academic Visits Abroad

- **Australia** - Attended training program at SMC Pneumatics Pty Ltd, Sydney
- **United Kingdom** – Signed MOU with Ports Mouth University, Portsmouth