

# National Institute of Technology, Tiruchirappalli:

## Performa for CV of Faculty/ Staff Members

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### Curriculum Vitae

#### Brief Profile:

Dr. N. Kumaresan was born in Tamil Nadu, India, on May 3, 1971. He received the B.E. degree from Bangalore University, Bangalore, India, in 1992, and the M.E. degree in power systems from the National Institute of Technology (then Regional Engineering College), Tiruchirappalli, India, in 1994, and the Ph.D. degree from Bharathidasan University, Tiruchirappalli, India, in 2005. Since 1999, he has been with the Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli, where he is currently an Associate Professor.



Dr. Kumaresan was Head of the Department of Electrical Engineering during 2012-2015, apart from heading Computer Support Group during 2009-2012 and Associate Dean (Planning and Development) in 2007 – 2009. He was involved in developing power converter research laboratory and hybrid electrical systems laboratory. He is also actively involved in coordinating industry based inter-disciplinary programme, namely, M.Tech. (Construction Technology and Management), fully sponsored by L&T Construction under Build India Scholarship (BIS) Programme. Dr. Kumaresan was the organizing secretary of Conclave on Academic Reforms (CAR2015) and extended his support for implementing the Flexible Academic Curriculum and Flexible Mode of Delivery and Assessment at NIT, Tiruchirappalli.

Dr. Kumaresan is the principal author/co-author of over 50 journal and conference papers. He has guided 4 Ph.D. dissertations and over 90 MS/ME/M.Tech. Theses. He has been granted one Indian patent and filed one Indian patent. He has executed more than five major sponsored and consultancy projects. Dr. Kumaresan received the Career Award for Young Teachers in December 2006, instituted by the All India Council for Technical Education, Government of India. His research interests include design and development of electrical machines and power electronic controllers for renewable energy electric conversion systems. Dr. Kumaresan is a Fellow of Institution of Engineers, India, Senior Member, IEEE (USA), Member of the IET (UK) and a Life Member of the ISTE, India.

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| 1. Name                             | : N. KUMARESAN   |
| 2. Designation                      | : ASSOCIATE PROFESSOR  |
| 3. Office Address                   | : EEE, NIT, TIRUCHIRAPPALLI                                    |
| 4. Telephone (Direct)               | : 2503257  |
| Telephone (R):                      | : 2504257  |
| Mobile (Optional):                  |  |
| 5. Email (Primary): nkumar@nitt.edu | Email (Secondary) : nkumarani@yahoo.co.in                      |
| 6. Field(s) of Specialization       | : Power Systems / Renewable Energy Electric Conversion Systems |

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### 7. Employment Profile

Job Title	Employer	From	To
National Institute of Technology (Formerly Regional Engineering College), Tiruchirappalli, Tamil Nadu, India	Associate Professor	23.04.2010	Till date
	Assistant Professor	03.11.06	22.04.2010
	Lecturer / senior Lecturer	03.05.99	02.11.06
Vellore Engineering College, Vellore (now VIT University, Tamil Nadu, India)	Lecturer	18.05.98	30.04.99
City Institute of Technology, Malaysia	Lecturer	19.08.97	20.02.98
Vellore Engineering College, Vellore(now VIT University, Tamil Nadu, India)	Lecturer	14.02.95	14.08.97

### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
<b>B.E.</b>	Golden Valley Institute of Engineering, KGF Bangalore University, Karnataka, India	1992	First Class	Electrical Engg.
<b>M.E.</b>	National Institute of Technology (Formerly Regional Engineering College), Tiruchirappalli Tamil Nadu, India	1994	First Class	Power Systems
<b>Ph.D.</b>		2005	---	Electrical and Electronics Engg.

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Coordinator- Electrical stream	M.Tech. (Construction Technology and Management) under Build India Scholarship Programme of L & T constructions	April 2014	Till date
First year class committee chair person	B.Tech. first year courses	August 2016	Till date
Head of the Department	EEE	January 2012	January 2015
Chairman / Computer Centre Committee	Computer Support Group	July 2009	February 2012
Associate Dean	Planning and Development	July 2007	July 2009
Warden	Hostel	June 2003	Sep. 2007

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### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
B.Tech. Admission in-charge	IIT, Srirangam	2016	Till date

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2006-2009	AICTE Career Award for Young Teachers	AICTE
1995, 1996, 1998	<b>BEST TEACHER AWARD</b> Each carrying a certificate and a cash award of Rs. 2000/-	Vellore Engineering College, Vellore - 14.
1995	<b>BEST TECHNICAL EXHIBIT AWARD IN SCIENCE EXHIBITION</b>	Regional Engineering College, Tiruchirappalli - 15.
1993-94	<b>GATE scholarship</b>	During my M.E. programme.

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

### 13. Details of Academic Work

#### (i) Curriculum Development

Developed curriculum for the following subjects:

UG level :

Design with PIC microcontrollers  
Wind and solar electrical systems  
Networks and linear systems

PG level :

Microcontroller applications in power converters  
Electrical systems in wind energy

Ph.D. Level :

Wind energy electrical conversion systems

In addition to the above, I have modified / improved the content of the few courses that are already in the B.Tech. / M.Tech. Curriculum.

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(ii) Courses taught at Postgraduate and Undergraduate levels

UG level:

1. DC machines and transformers
2. Control systems
3. Circuit theory
4. Networks and linear systems
5. Power system operation and control
6. Basics of electrical and electronics engineering
7. Branch specific course
8. Microprocessors and microcontrollers
9. Electronic circuits
10. Electrical and control systems

PG level:

1. Advanced power system analysis
2. Power system operation and control
3. Power conversion techniques
4. Electrical systems for wind energy
5. Renewable power generation technologies
6. Microcontroller applications in power converters
7. Wind energy electric conversion systems

(iii) Projects guided at Postgraduate level

More than 90 Thesis / projects guided at the M.Tech./MS level

(iv) Other contribution(s)

- 1 Organizing secretary, Conclave on Academic reforms 2015
- 2 Member Senate sub-committee- Academic reforms

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
A novel hybrid energy system for supplying isolated loads with FPGA based energy management scheme	Center for Wind Energy Technology (C-WET), Chennai	Nov 2013	Till date	Ongoing
Development of micro-grid controller integrated with multiple types of renewable sources and loads	POWER GRID CORPORATION OF INDIA LIMITED	July 2013	April 2014	completed
Development of infrastructure in Power Electronics Lab	National Mission for Power Electronic Technology (NaMPET), CDAC, Trivandrum	April 2008	July 2009	Completed

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Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Design and Testing of Electrical Generators and Associated Power Electronic Controllers for Wind and Bio-mass Driven Applications	Under Career Award for Young Teachers of AICTE	December 2006	December 2009	Completed
Solar powered Battery Charger	under Student Project Scheme Tamil Nadu State Council for Science and Technology	2007	2008	Completed
An Integrated Wind-Solar Electric Energy Conversion System for Isolated Rural Power Supply		1999	2000	Completed

**15. Number of Ph.D.s guided**

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
R.Karthigaivel	Analysis, control and testing of SEIGs and semi-converters with various firing angle control schemes for battery charging applications	Supervisor	2012
K.Vijayakumar	Control strategy for WRIG system with certain power electronic converter topologies for effective utilization of wind energy	Supervisor	2013
S.Senthil Kumar	Analysis and Control of Capacitor-Excited Induction Generators and Power Electronic Converters for Stand-Alone and Grid-Connected Applications	Supervisor	2013
P.Raja	Design and Development of Improvised Schemes Applicable for the Performance Enhancement of Wind Driven Induction Generators	Supervisor	2013

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue

### **Workshop attended**

1. Orientation Workshop on Outcome Based Education and Accreditation for Programme Evaluators (PEVs) - NBA, Organized by IITM, (Venue : Hall-II), ICSR Building) Chennai, India on 12.11.2016.
2. Global Education Futures (GEF) Workshop on ‘Prototyping Our Futures’ and ‘Living in Harmony: Universities & Communities – Strategies for successful Community-University Engagement’, organized by FICCI – Higher Education Summit held at FICCI, New Delhi, India on 09.11.2016.
3. One day conclave on R&D in New and Renewable Energy organised by the Ministry of New and Renewable Energy, Government of India at Vigyan Bhavan, New Delhi, India on 05.08.2014
4. National Workshop on Power Electronics – NWPE 2013, on the theme of Energy scenario and Role of Power Electronics organised by NaMPET (National Mission on Power Electronics Technology) – Phase II, an initiative of Department of Electronics and Information Technology, Ministry of Communication and Information Technology, Govt. of India & CDAC, Thiruvananthapuram, held in Hotel FORTUNE Park JP Celestial, Bangalore – 560009 on 19.09.2013
5. Twenty Ninth National Convention on Mechanical Engineers – National Seminar on “An Insight into Supercritical Technology – Concept to Commissioning” organized by Institution of Engineers (India), Tiruchirappalli Local Centre, India held during September 6-7, 2013.
6. 2-day workshop on “Perspectives on Curriculum”, organized by NIT, Tiruchirappalli under TEQIP during 9-10 May 2013.
7. Tutorial on “Grid Integration of Renewable Energy Sources and Electric Vehicles”, delivered by Associate Prof. Udaya K. Madawala, *The University of Auckland, New Zealand* and Associate Prof. Mahinda Vilathgamuwa, *Nanyang Technological University, Singapore* during The 3rd IEEE International Conference on Sustainable Energy Technologies (ICSET’12) held in Kathmandu, Nepal on 24 – 27 September 2012.
8. 10- day ISTE Workshop on “Solar Photovoltaics : Fundamentals, Technologies and Applications”, organized by ISTE-IITB, Mumbai under NME-ICT together with NCPRE supported by MHRD, during 12-22 December 2011 at NIT-T remote centre.

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9. Workshop on “Next Generation of Power Systems”, organized by IEEE ICIS 2011, Faculty of Engineering, University of Peradeniya, Sri Lanka on 16<sup>th</sup> August 2011.
10. Workshop on “Large scale Integration of Wind Energy into the grid”, organized by IEEE Bangalore chapter, conducted at CPRI, Bangalore during 20-21 January 2009.
11. Tutorial on “Blackouts / network security / energy management in the deregulated environment” delivered by *Prof. Bruce F Wollenberg, University of Minnesota, USA* during IPEC 2007 conference.
12. National Workshop on “TEQIP Industry Institution Interaction – July 2006”, organized by National Project Implementation Unit (NPIU), Govt. of India and State Project Facilitation Unit (SPFU), Govt. of Andra Pradesh, during 20-21 July 2006 at Hyderabad.
13. Workshop cum Discussion on “Small Hydro Power Projects” jointly organized by Alternate Hydro Energy Centre, IIT, Roorke and CEESAT, NIT, Trichy during 22-23 April 2005 at CEESAT, NIT, Trichy.
14. National workshop on “Energy Conversion in Industries”, organized by The Institution of Engineers (India), Tiruchirappalli Local Centre on 22<sup>nd</sup> May 2004 at NIT, Tiruchirappalli.

### **Training program / Summer schools attended**

Sl.No.	Title	Name of the sponsoring agency	Organization / Place	Duration	
				From	To
1.	Induction Training Programme	AICTE	TTTI, Chennai	01.06.1995	22.06.1995
2.	Psychological Counselling	VEC, Vellore	Christion Counselling Centre, Vellore	04.06.1996	15.06.1996
3.	Short-Term training program on Power Quality issues and Remedial Measures	AICTE / ISTE	Calicut REC	20.12.1998	02.01.1999
4.	Winter School on Digital Protection of Power Systems	AICTE / ISTE	CIT, Coimbatore	15.11.1999	28.11.1999
5.	Short-Term training program on EMTP, MATLAB, PSPICE packages and their applications in Electrical Engineering	AICTE / ISTE	REC, Warangal	27.12.1999	08.01.2000
6.	Short-Term training courses on Neural Networks and its Engineering Applications	AICTE	IIT, Kanpur	26.06.2000	01.07.2000

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7.	Regional Training Course on Simulation Models in Engineering and Technology	UNESCO	IIT, Chennai	12.03.2001	23.03.2001
8.	Developing emotionally intelligent leadership	NITT	ASCI, Hyderabad	23.07.2007	27.07.2007
9.	7 Habits of Highly Effective People	NITT / TEQIP	Franklin Covey At Munnar	02.10.2008	04.10.2008
10.	Outbound experimental learning camp for team building & effective group dynamics	NITT / TEQIP	Adventure zone,	11.02.2013	12.02.2013

### Conferences attended

#### **As a Participant**

1. 12<sup>th</sup> FICCI Higher Education Summit 2016 – Global Conference & Exhibition, Education for tomorrow : ‘Learn in India-Learn for the World’, Organised by FICCI, India, held at Vigyan Bhavan, New Delhi, November 10-12, 2016.
2. 5<sup>th</sup> International Conference on “Trends in Industrial Measurement and Automation”, 4-6, January 2007, NIT, Tiruchirappalli, India.

#### **As a Speaker**

1. Key note speaker in 10th International Conference on Science, Engineering and Technology (SET), organized by VIT, Vellore, during 4-5 May 2015.
2. Chief guest and jury in the National conference on Power Initiatives, organized by the Department of Electrical and Electronics Engineering, K. Ramakrishnan College of Engineering, Samayapuram, Tiruchirappalli – 621112, on 27.02.2015.
3. Evaluator for the Technical session V Electrical and Power Electronics in TEQIP- II Sponsored International Conference on “Energy and Environmental Engineering” (ICEEE’14), organized by the Department of Petrochemical Technology, Anna University, Tiruchirappalli, during 6-7, November 2014.
4. Key note speaker in 8th International Conference on Science, Engineering and Technology (SET), organized by VIT, Vellore, during 6-8 May 2014.
5. Key note speaker in International Conference on “Advancements in Automation and Control (ICAAC 2014)” in Association with Journal of Applied Mechanics and Materials held on 11-04-2014, organized by Department of Electrical & Electronics Engineering, Syed Ammal Engineering College, Ramanathapuram – 623 502, during 11-12, April 2014.



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### As a Chairperson

1. Chaired a technical session in IEEE International Conference on Power, Energy & Control (ICPEC'13), organized by PSNA, Dindigul, during 6-8 February 2013.
2. IEEE International Conference on ICIAS 2010, during June 15-17, 2010, Kulalampur, Malaysia.( Chaired a technical session)
3. 2<sup>nd</sup> National Level Conference on Power Conversion, System, Drives & Control Technology (PCTCON '07), 30.03.2007, organised by Department of Electrical and Electronics Engineering, PSNA College of Engineering & Technology, Dindigul, Tamil Nadu – 624 622 (Chaired a technical session).
4. National Conference on “Innovative Strategies on Power Systems and Power Electronic Drives (ISPSPED'07)” On 16th March 2007, organised by Department of Electrical and Electronics Engineering, SONA COLLEGE OF TECHNOLOGY, SALEM-636 005 (Chaired a technical session).
5. 2006 IEEE International Conference on Industrial Technology (ICIT), 15-17, December 2006, Mumbai, India (Chaired a technical session).

### As a Paper presenter

1. Third International Conference on Engineering, Science, Business and Management 2016 (ICESBM 2016), 9th & 10th March 2016, Dubai, UAE.
2. 3rd IEEE International Conference on Sustainable Energy Technologies (ICSET'12) held in Kathmandu, Nepal on 24 – 27 September 2012
3. 6<sup>th</sup> IEEE international Conference on ICIIS 2011, 16<sup>th</sup> – 19<sup>th</sup> August 2011, Sri Lanka.
4. IEEE International Conference on ICIAS 2010, during June 15-17, 2010, Kulalampur, Malaysia.
5. The 8<sup>th</sup> International Power Engineering Conference (IPEC 2007), 3-6 December 2007, Singapore organized by NTU, Singapore.
6. 2006 IEEE International Conference on Industrial Technology (ICIT), 15-17, December 2006, Mumbai, India.
7. Sixth International Conference on Electrical Rotating Machines ELROMA-2004, IEEMA, 4<sup>th</sup> and 5<sup>th</sup> February 2004, New Delhi.
8. IEEE TENCON2003 (IEEE Region 10 Technical Conference on Convergent Technologies For The Asia-Pacific), 15 – 17 October 2003, Banglore, India.
9. 2002 IEEE International Conference on Industrial Technology (ICIT), 11-14, December 2002, Bangkok, Thailand.
10. Eleventh National Power Systems Conference NPSC 2000, Vol.1, IISc, Bangalore, 20 – 22, December 2000.

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### 17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

1. Workshop on “**Operation and Control of Wind-driven Generators**” under Technical Education Quality Improvement Programme (TEQIP), Phase-II, during 15<sup>th</sup>-16<sup>th</sup> April 2016. Coordinators : Coordinators : Dr. S. Senthil Kumar, Dr. N. Kumaresan and Dr. N. Ammasaigounden
2. TEQIP II sponsored “**Conclave on Academic Reforms**”, during 27<sup>th</sup> – 29<sup>th</sup> April 2015 at NIT, Tiruchirappalli, Organising Secretaries: Dr. N. Kumaresan & Dr. R. Karvembu.
3. Faculty development programme on “**Art of teaching: pedagogical tools and techniques season-II**”, Under the Self-Financed Category, during 17<sup>th</sup> – 21<sup>st</sup> November 2014. Co-ordinators : Dr.B. Senthil Arasu, Asso Prof, DoMS, Dr. N. Thamaraiselvan, Asso Prof & Head DoMS and Dr. N. Kumaresan.
4. Faculty development programme on “**Art of teaching: pedagogical tools and techniques season-II**”, Under the Self-Financed Category, during 3<sup>rd</sup> – 7<sup>th</sup> March 2014. Co-ordinators : Dr.B. Senthil Arasu, Asso Prof, DoMS, Dr. N. Thamaraiselvan, Asso Prof & Head DoMS and Dr. N. Kumaresan.
5. Workshop on “**Wind-drive Generators (WGs)**” under Technical Education Quality Improvement Programme (TEQIP), Phase-II, during 13<sup>th</sup>-14<sup>th</sup> December 2013. Coordinators : Coordinators : Dr. N. Kumaresan, Dr. P. Raja and Dr. S. Senthil Kumar.
6. Faculty development programme on “**Art of teaching: pedagogical tools and techniques**”, Under the Self-Financed Category, during 18<sup>th</sup>-22<sup>nd</sup> November 2013. Co-ordinators : Dr.B. Senthil Arasu, Asso Prof, DoMS, Dr. N. Thamaraiselvan, Asso Prof & Head DoMS and Dr. N. Kumaresan.
7. Short-term training program on “**Power Electronics and Measurements**”, Under the Self-Financed Category, during 2<sup>nd</sup>-3<sup>rd</sup> May 2013. Co-ordinators : Dr. N. Ammasaigounden, Dr. N. Kumaresan and Dr. G. Saravana Ilango
8. Short-term training program on “**SOLAR PV Electric Conversion Systems (SPVECS)**”, Under the Self-Financed Category, during 18<sup>th</sup> – 19<sup>th</sup> January 2013. Co-ordinators : Dr. N. Ammasaigounden & Dr. N. Kumaresan
9. Short-term training program on “**Wind Energy Electric Conversion Systems (WEECS)**”, Under the Self-Financed Category, during 4<sup>th</sup> – 5<sup>th</sup> January 2013. Co-ordinators : Dr. N. Kumaresan & Dr. N. Ammasaigounden

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10. Short-term training program on “**PIC microcontroller applications in Power Electronic circuits**”, Under the Self-Financed Category, during 22nd – 23rd June 2012. Co-ordinators : Dr. N. Ammasaigounden & Dr. N. Kumaresan
11. AICTE-QIP Sponsored Short-Term Course on “**Renewable Energy Electric Conversion Systems**” Under the Quality Improvement Programme during 14th -18th December 2009. Co-ordinators : Dr. N. Kumaresan & Mr. P. Raja
12. WORKSHOP ON **POWER ELECTRONICS SIMULATION – SEQUEL** under the aegis of The National Mission on Power Electronics Technology (NaMPET) an initiative of Department of Information Technology, Government of India, on 4<sup>th</sup> May 2009. Co-ordinator : Dr. N. Kumaresan
13. Workshop on **Power Electronics Education (WPPE 2009)** under the aegis of The National Mission on Power Electronics Technology (NaMPET) an initiative of Department of Information Technology, Government of India, during 22<sup>nd</sup> – 23<sup>rd</sup> January 2009. Co-ordinators : Dr. C. Nagamani & Dr. N. Kumaresan
14. Workshop on “**Awareness Programme on Intellectual Property Rights**” Under the Services to Community and Economy of the Technical Education Quality Improvement Programme, 20<sup>th</sup> November 2008.
15. **National Workshop on Power Electronics (NWPE 2008)**, Sponsored by NaMPET, CDAC, Trivandrum, during 12<sup>th</sup>-14<sup>th</sup> November 2008. Coordinators : Dr. C. Nagamani and Dr. N. Kumaresan.
16. MHRD-AICTE Sponsored Summer School on “**Power Electronics and Renewable Energy Electric Conversion Systems**” during 16<sup>th</sup> – 28<sup>th</sup> June 2008. Coordinator : Dr. N. Kumaresan.
17. AICTE-QIP Sponsored Short-Term Course on “**Electrical Machines and Power Electronics in Renewable Energy Systems**” Under the Quality Improvement Programme during 28<sup>th</sup> January 2008 – 1<sup>st</sup> February 2008. Coordinators : Dr. N. Kumaresan and Dr. M. P. Selvan.
18. Workshop on “**Microprocessor, Microcontrollers and Their Applications**” Under the Services to Community and Economy of the Technical Education Quality Improvement Programme, 14<sup>th</sup> and 15<sup>th</sup> December 2007. Coordinators : Ms. S. Sudha, Dr. N. Ammasaigounden and Dr. N. Kumaresan.
19. Workshop on “**Recent Trends in Wind Power Generation and FACTS**” Under the Services to Community and Economy of the Technical Education Quality Improvement Programme, 28<sup>th</sup> and 29<sup>th</sup> August 2007. Coordinators : Dr. C. Nagamani and Dr. N. Kumaresan.
20. Workshop on “**Electrical Machine Winding**” Under the Services to Community and Economy Of the Technical Education Quality Improvement Programme, 14<sup>th</sup> July 2007. Coordinator : Dr. N. Kumaresan.
21. Workshop on “**Electrical Science and Electronics for Physics Teachers of Higher Secondary Schools**” Under the Technical Education Quality Improvement Programme, 28<sup>th</sup> and 29<sup>th</sup> October 2006. Coordinators : Dr. N. Kumaresan and Dr. M. P. Selvan.

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22. Workshop on “**Training Needs for Students of EEE under TEQIP Tribal Development**”, Under the Technical Education Quality Improvement Programme, 11<sup>th</sup> October 2006. Coordinators : Coordinators : Dr. N. Kumaresan and Ms. S. Mageswari.
23. Workshop on “**Topics on Electrical Science and Electronics for Physics Teachers of Higher Secondary Schools**” Under the Technical Education Quality Improvement Programme, 15<sup>th</sup> and 16<sup>th</sup> October 2005. Coordinator : Dr. N. Kumaresan

### 18. Invited Talks delivered (Last FIVE years)

Topic	Date	Inviting Organization

1. “**Project proposal writing**”, National Workshop on – How to write successful project proposals to funding agencies, organized by the R&D Cell and Department of Electrical and Electronics Engineering, Vivekanandha College of Engineering for Women (Autonomous), Tiruchengode, Tamil Nadu, India on 24.09.2016.
2. “**Role of Power Electronics in Energy Sector**”, Technical Education Quality Improvement Programme (TEQIP-II) sponsored Two Days Seminar on Power Electronics for Renewable Energy Systems (PERES-2016) organized by the Department of Electrical and Electronics Engineering, Anna University, BIT campus, Tituchirappalli - 620024, during 18<sup>th</sup> – 19<sup>th</sup> August 2016 (19.08.2016).
3. “**Operational aspects of wind-driven generators**”, Technical Education Quality Improvement Programme (TEQIP-II) sponsored Faculty Development Programme on Computation, Optimization and Modelling of Sustainable Energy Systems organized by the Department of Electrical and Electronics Engineering, Anna University, BIT campus, Tituchirappalli - 620024, during 20<sup>th</sup> June – 3<sup>rd</sup> July 2016 (22.06.2016).
4. “**Grid integration of wind driven generators**”, Technical Education Quality Improvement Programme (TEQIP-II) sponsored workshop on Utilisation Techniques of Renewable Energy Sources organized by the Department of Mechanical Engineering, NIT, Tituchirappalli, during 6<sup>th</sup> - 9<sup>th</sup> June 2016 (08.06.2016).
5. “**Operation and Control of wind-driven stand-alone DFIGs**” AICTE- Faculty Development Programme on "Topics of Research in Electrical Engineering (TREE'15)" during May 11-24, 2015, *Organized by the* Department of Electrical and Electronics Engineering, Mepco Schlenk Engineering College (Autonomous), Sivakasi, Tamil Nadu. (11.05.2015 – Chief Guest and special lecture)
6. “**Operation and control of DFIGs with single inverter-battery system**” in 9th International Conference on Science, Engineering and Technology (SET), organized by VIT, Vellore, during 6-8 May 2015 (6.5.2015).
7. “**Operation and Control of Self-Excited Induction Generators (SEIGs)**”, National Mission on Power Electronics Technology (NaMPET-II) sponsored short term Course on Application of Power Electronics to Renewable Energy Systems and Micro Grids organized by the Department of Electrical and Electronics, NIT, Tituchirappalli, during 9<sup>th</sup> & 10<sup>th</sup> January 2015 (09.01.2015).
8. “**Microteaching**”, a 3-day TEQIP II sponsored Faculty Development Programme on “The Art of Teaching: Pedagogical Tools and Techniques” organized by Govt. College of Engineering Salem 11, from 9.12.2014 to 11.12.2014 (11.12.2014).
9. “**Wind-driven induction generators for supplying isolated loads**” Short-term course on Renewable Energy Conversion Technology, Jointly organized by Power Electronics Group, CDAC, Thiruvananthapuram and North-Eastern Hill University (NEHU), Shillong under the aegis of National Mission on Power Electronics Technology (NaMPET Phase-II), Department of

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- Electronics & Information Technology (DeiTY), Govt. of India, during 23-24, September 2014 at NEHU, Shillong, Meghalaya (24.09.2014).
10. **“Power Electronic Controllers For Renewable Energy Applications - Wind Energy”** in 8th International Conference on Science, Engineering and Technology (SET), organized by VIT, Vellore, during 6-8 May 2014 (6.5.2014).
  11. **“Analysis of Self-Excited Induction Generators using Genetic Algorithm techniques”** in International Conference on **“Advancements in Automation and Control (ICAAC 2014)” in Association with Journal of Applied Mechanics and Materials** held on 11-04-2014, organized by Department of Electrical & Electronics Engineering, Syed Ammal Engineering College, Ramanathapuram – 623 502, during 11-12, April 2014.
  12. **“Operation and control of standalone DFIGs for supplying isolated loads”** National Mission on Power Electronics Technology (NaMPET-II) sponsored short term Course on Power Electronics in Distributed Generation organized by the Department of Electrical and Electronics, NITK, Surathkal, during 7-9, February 2014 (09.02.2014).
  13. **“Hybrid AC/DC Grid – A Future Trend in Power System”** TEQIP sponsored Faculty development programme on "Recent trends in power electronics and power systems (RTPEPS)", organized by the Department of Electrical and Electronics Engineering, Pondicherry Engineering College, Pondicherry, during 12<sup>th</sup> – 18<sup>th</sup> June 2013 (14.6.2013).
  14. **“Controllers in Power Electronics and case study”** TEQIP sponsored Faculty development programme on "Recent trends in power electronics and power systems (RTPEPS)", organized by the Department of Electrical and Electronics Engineering, Pondicherry Engineering College, Pondicherry, during 12<sup>th</sup> – 18<sup>th</sup> June 2013 (14.6.2013).
  15. **“Controllers for Energy Efficient Operation of Grid-connected Induction Generators”** AICTE sponsored Faculty development programme on "Renewable Energy ", organized by the Department of Mechanical Engineering, Pondicherry Engineering College, Pondicherry, during 13<sup>th</sup> – 25<sup>th</sup> May 2013 (17.5.2013).
  16. **“Solar PV systems”** AICTE sponsored Faculty development programme on "Renewable Energy ", organized by the Department of Mechanical Engineering, Pondicherry Engineering College, Pondicherry, during 13<sup>th</sup> – 25<sup>th</sup> May 2013 (17.5.2013).
  17. **“Improved control schemes for performance enhancement of grid-connected induction generators”** AICTE sponsored Faculty development programme on "Efficient control of Renewable energy and its conservation", organized by the Department of Electrical and Electronics Engineering, Government College of Technology, Coimbatore, during 25th April to 8th May 2013 (7.5.2013).
  18. **“Self-excited induction generator and its control”** AICTE sponsored Faculty development programme on "Efficient control of Renewable energy and its conservation", organized by the Department of Electrical and Electronics Engineering, Government College of Technology, Coimbatore, during 25th April to 8th May 2013 (7.5.2013).
  19. **“Operational aspects of Induction Generators”** Faculty development programme on Renewable Energy Sources Technology and Applications organized by the Department of Electrical and Electronics Engineering, Arunai College of Engineering, Tiruvennamalai sponsored by DST, Govt. of India and Entrepreneurship Development Institute of India, during 3-15, December 2012.
  20. **“Operational aspects of Induction Generators”** Short term Course on Power Electronics in Micro/Mini Hydropower Generation (PEMHG-12) organized by Dept. of Water Resources Development and Management & Continuing Education Centre, Indian Institute of Technology, Roorkee, during Nov. 29 – Dec. 01, 2012.
  21. **“Reactive power Control in Induction Generators”**, Short term Course on Power Electronics in Micro/Mini Hydropower Generation (PEMHG-12) organized by Dept. of Water Resources Development and Management & Continuing Education Centre, Indian Institute of Technology, Roorkee, during Nov. 29 – Dec. 01, 2012.

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22. **Analysis of SEIGs using GA technique**”, DST sponsored National Level Seminar on Artificial Intelligence in Renewable energy Systems, organized by National Engineering College, Kovilpatti, Tamil Nadu on 21<sup>st</sup> January 2012.
23. **“Controllers for Energy Efficient Operation of Induction Machines”**, organized by The Institution of Engineers (India), TIRUCHIRAPPALLI LOCAL CENTRE, BHEL Main Office Road, Tiruchirappalli – 620 014 at Institution Building(Opp. to Bldg.79), on 13<sup>th</sup> December 2011(Tuesday) as part of Energy Conservation Day 2011.
24. **“Anna University Technology, Madurai sponsored Faculty Development Programme on Industrial control Electronics”**, organized by PSNA CET, Dindugal, during 4-5, February 2011.

### 19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Life membership	The Indian Society for Technical Education (ISTE)	(LM 23990) -1997
Fellow	The Institution of Engineers (India)	F-1218588 - 2016
Member	The Institution of Engineering and Technology (UK) – IET (UK)	84692737-2007
Senior Member	The Institution of Electrical and Electronics Engineers – IEEE (USA)	92603680 -2013 2016

### 20. Academic Foreign Visits

Country	Duration of Visit		Programme
	From	To	
Dubai	08.03.2016	11.03.2016	To present research paper in 3rd Third International Conference on Engineering, Science, Business and Management 2016 (ICESBM2016)
Kathmandu, Nepal	24.09.2012	27.09.2012	To present research papers in 3rd IEEE International Conference on Sustainable Energy Technologies (ICSET'12)
University of Peradeniya, Sri Lanka	16.08.2011	19.08.2011	To present research papers in IEEE – ICHS 2011 Sponsored by NIT-T
City university of Hong Kong Advisor : Prof. Henry S H CHUNG	24.03.2009	23.04.2009	Visiting Assistant Professor, Department of Electronics Engineering, City university of Hong Kong Sponsored by AICTE
NTU, Singapore Advisor : Prof. Lalit Goel	19.11.2007	30.11.2007	Visiting Research Scientist, EEE, NTU, Singapore Sponsored by AICTE



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Country	Duration of Visit		Programme
	From	To	
Singapore	3.12.2007	6.12.2007	To present a research paper in IPEC2007 sponsored by AICTE
Illinois Institute of Technology, Chicago, USA Advisor : Prof. Ali Emadi	19.04.2007	18.05.2007	Senior Research Associate, ECE, IIT, Chicago, USA Sponsored by TEQIP Project
University of Wisconsin-Madison, USA Advisor : Prof. Giri, V.	12.05.2007	13.05.2007	Department of Electrical and Electronics Engineering, University of Wisconsin-Madison, College of Engineering
Bangkok, Thailand	11.12.2002	14.12.2002	To Present a research paper in IEEE International Conference IEEE ICIT '02 sponsored by institute and UGC.
City Institute of Technology, Malaysia	19.08.1997	20.02.1998	Worked as a Lecturer

21. Publications

**Journal publications**

**21.1 International journal publications**

- [1] K. Navin Sam, N. Kumaresan, and N. Ammasai Gounden, "Wind-driven Stand-alone DFIG with Battery and Pumped Hydro Storage System" Accepted for publication in Sadhana - Academy Proceedings in Engineering Science (SCIE indexed: ISSN: 0256-2499).
- [2] K. Venkatraman, B. Dastagiri Reddy, M.P. Selvan, S. Moorthi, N. Kumaresan and N. Ammasai Gounden, "Online condition monitoring and power management system for standalone micro-grid using FPGAs", Accepted for publication in IET Generation, Transmission & Distribution (SCIE indexed: ISSN: 1751-8687).
- [3] Sumedha M. Mahajan, S. Senthil Kumar, N. Kumaresan, N. Ammasai Gounden and E. Rajkumar, "Decoupled control strategy for the operation of capacitor-excited induction generator for DC power applications", Accepted for publication in IET Power Electronics (SCIE indexed : ISSN: 1755-4535)
- [4] K. Navin Sam, N. Kumaresan, N. Ammasai Gounden and Rajesh Katyal, "Optimal Reactive Power Controller for Wind-Driven Stand-Alone Doubly-Fed Induction Generators" Accepted for publication in International journal of Wind Engineering.
- [5] V. Nayanar, N. Kumaresan, and N. Ammasai Gounden, "Wind-driven SEIG supplying DC microgrid through a single-stage power converter", Vol.19, issue.3, August 2016, pp.1600-1607, Engineering Science and Technology, an International Journal (ISSN: 2215-0986)
- [6] Dwijasish Das, N. Kumaresan, V. Nayanar, K. Navin Sam and N. Ammasai Gounden, "Development of BLDC Motor Based Elevator System Suitable for DC Microgrid," *IEEE / ASME Transactions on Mechatronics*, Vol. 21, No. 3, June 2016, pp.1552-1560. (SCIE indexed: ISSN: 1083-4435)

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- [7] V. Nayanar, N. Kumaresan, and N. Ammasai Gounden, "A single sensor based MPPT controller for wind-driven induction generators supplying DC microgrid," *IEEE Transactions on Power Electronics*, vol. 31, no. 2, Feb. 2016, pp.1161–1172. (SCIE indexed: ISSN: 0885-8993)
- [8] S. Senthil Kumar, N. Kumaresan and M. Subbiah, "Analysis and control of capacitor-excited induction generators connected to a micro-grid through power electronic converters", *IET Generation, Transmission & Distribution*, Vol.9, Issue.10, June 2015, pp.911-920. (SCIE indexed: ISSN: 1751-8687)
- [9] K. Navin Sam, N. Kumaresan, N. Ammasai Gounden and Rajesh Katyal, "Analysis and control of wind-driven stand-alone doubly-fed induction generator with reactive power support from stator and rotor side" *International journal of Wind Engineering*, Vol.39, No.1, 2015, pp.97-112. (ISSN: 0309-524X)
- [10] K. Vijayakumar, N. Kumaresan and N. Ammasaigounden, "Speed sensor-less MPPT and constant output power operation of wind-driven WRIGs", *IET Power Electronics*, Vol.8, Issue.1, Jan.2015, pp.33-46. (SCIE indexed : ISSN: 1755-4535)
- [11] S. Senthil Kumar, N. Kumaresan, M. Subbiah and Mahendhar rageeru, "Modelling, analysis and control of stand-alone self-excited induction generator-PWM rectifier systems feeding constant dc voltage applications", *IET Generation, Transmission & Distribution*, Vol.8, Issue.6, June 2014, pp.1140-1155. (SCIE indexed: ISSN: 1751-8687)
- [12] P. Raja, N. Kumaresan and M. Subbiah, "An Improved Delta-Star Switching Scheme for Reactive Power Saving in Three-Phase Induction Motors", *Frontiers in Energy (Springer publication)*, Vol.8, issue.3, Sep. 2014, pp.364–370. (ISSN Print: 2095-1701 & ISSN Online: 2095-1698)
- [13] K. Vijayakumar, N. Kumaresan, N. Ammasaigounden and Sarath B Tennakoon, "Real and Reactive power control of hybrid excited wind-driven grid-connected DFIGs", *IET Power Electronics*, Vol.6, Issue. 6, 2013, pp.1197-1208. (SCIE indexed : ISSN: 1755-4535)
- [14] P. Raja, M.P. Selvan and N. Kumaresan, "Enhancement of Voltage Stability Margin in Radial Distribution System with Squirrel Cage Induction Generator based DGs" *IET Generation, Transmission & Distribution*, Vol.7, Issue.8, 2013, pp.898-906. (SCIE indexed: ISSN: 1751-8687)
- [15] K. Vijayakumar, N. Kumaresan and N. Ammasaigounden, "Operation of inverter assisted wind-driven slip-ring induction generator for stand-alone power supplies", *IET Electr. Power Appl.*, Vol.7, Issue. 4, 2013, pp.256-269. (SCIE indexed: ISSN: 1751-8660)
- [16] S.Senthil Kumar, N.Kumaresan, N. Rakesh, K.Vijayakumar and M. Subbiah, "Wind-driven SEIGs for supplying isolated loads employing DSP based power electronic controllers", *International journal of Wind Engineering*, Vol.36 , No.6, 2012, pp.739-757. (ISSN: 0309-524X)
- [17] S.Senthil Kumar, N. Kumaresan, N. Ammasai Gounden, Namani Rakesh, "Analysis and control of wind-driven self-excited induction generators connected to the grid through power converters", *Frontiers in Energy (Springer publication)*, Vol.6, issue.4, 2012, pp.403–412. (ISSN Print: 2095-1701 & ISSN Online: 2095-1698)
- [18] P. Raja, N. Kumaresan and M. Subbiah, "A Closed Loop System for Inverter Assisted Wind Driven Induction Generators for Supplying Isolated Loads" *International Review of Automatic Control (Theory and Applications)*, Vol.5, No.4, July 2012, pp. (ISSN: 1974-6059)



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- [19] K. Vijayakumar, N. Kumaresan, K. Amara Bhagavan and N. Ammasaigounden, "A DSP based closed loop controller for power smoothing operating of wind-driven WRIG systems", International Review on Modelling and Simulations, Vol. 5, No. 1, 2012, pp. 185-192. (ISSN: 1974-9821)
- [20] P.Raja, N. Kumaresan and M. Subbiah, "Grid-connected Induction Generators using Delta-Star Switching of the Stator Winding with a Permanently Connected Capacitor", International journal of Wind Engineering, Vol.36 , No.2, 2012, pp.219-232. (ISSN: 0309-524X)
- [21] K. Vijayakumar, N. Kumaresan and N. Ammasaigounden, "Operation and closed-loop control of wind-driven stand-alone DFIGs using single inverter-battery system", IET Electr. Power Appl., Vol. 6, Issue. 3, 2012, pp. 162-171. (SCIE indexed: ISSN: 1751-8660)
- [22] J. Naizath Amirtharaj, K. Siddharth, S. Moorthi and N. Kumaresan, " Voltage control Scheme for a Single Phase Voltage Source Inverter (VSI) using FPGA", Australian Journal of Electrical and Electronics Engineering, Vol. 9, Issue. 2, 2012, pp. 197–207. (ISSN: 1448-837X)
- [23] R. Karthigaivel, N. Kumaresan, and M. Subbiah, "Analysis and control of self-excited induction generator-converter systems for battery charging applications" IET Electr. Power Appl., Vol. 5, Issue. 2, 2011, pp. 247–257. (SCIE indexed: ISSN: 1751-8660)
- [24] R. Karthigaivel, N. Kumaresan, P. Raja and M. Subbiah, "A novel unified approach for the analysis and design of Wind-driven SEIGs using nested GAs", International journal of Wind Engineering, Vol.33 , No.6, 2009, pp.631-647. (ISSN: 0309-524X)
- [25] K. Dhanasekaran, N. Kumaresan, and M. Subbiah, "*abc-dq* modeling and simulation of wind-driven self-excited induction generators", Australian Journal of Electrical & Electronics Engineering, vol.3, No.3, 2007, pp.235-248. (ISSN: 1448-837X)
- [26] N. Kumaresan, "Analysis and control of three-phase self-excited induction generators supplying single-phase ac and dc loads" IEE Proc. Electric Power Applications, Vol. 152, No. 3, May 2005, PP.739-747. (old : ISSN: 1350-2352 & SCIE indexed: ISSN: 1751-8660)
- [27] N. Kumaresan, M.P. Selvan and M. Subbiah, "Design optimisation and speed extension of wind-driven self-excited induction generators – A new approach", Electric Power Components and Systems, Vol.32, No.2, February 2004, pp.215-228. (ISSN: 1532-5008)
- [28] N. Kumaresan and M. Subbiah, "Innovative reactive power saving in wind-driven grid-connected induction generators using a delta-star stator winding: part I, Performance analysis of the delta-star generator and test results", International journal of Wind Engineering, Vol.27, No.2, 2003, pp.107 – 120. (ISSN: 0309-524X)
- [29] N. Kumaresan and M. Subbiah, "Innovative reactive power saving in wind-driven grid-connected induction generators using a delta-star stator winding: part II, Estimation of annual Wh and VARh of the delta-star generator and comparison with alternative schemes", International journal of Wind Engineering, Vol.27, No.3, 2003, pp.195-204. (ISSN: 0309-524X)

### **21.2 National magazine/journal publications**

- [1] N. Kumaresan, M. Subbiah and R. Karthigaivel, "Electrical generators and controllers In wind energy conversion systems – an overview" Electrical India magazine, Vol. 50, No. 6, June 2010, pp. 66-74.

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- [2] K. VijayaKumar, N. Kumaresan and N. Ammasai Gounden, "Doubly-fed induction generators in wind energy conversion systems – An overview" Electrical India magazine, Vol. 54, No. 4, April 2014, pp. 70-76.

### **Conference publications**

#### **21.3 International conference publications**

- [1] K. Vijayakumar and N. Kumaresan, "Experimental Investigation and Controller Development for Variable Speed Wind-driven DFIG" ", Proceedings of the Third International Conference on Engineering, Science, Business and Management 2016 (ICESBM 2016), 9th & 10th March 2016, Dubai, UAE.
- [2] R. Karthigaivel, N. Kumaresan and M. Subbiah, "Performance predetermination of single-phase induction motors using Thevenin's, Norton's and Maximum power transfer theorems", Proceedings of the IEEE International Conference on Computer Communication and Informatics (ICCCI 2015), January 8-10, 2015, Coimbatore, India.
- [3] R. Karthigaivel, N. Kumaresan and M. Subbiah, "Classification and analysis of operating modes of three-phase semi-converters feeding battery charging loads using Phase Angle Control scheme-A monograph", Proceedings of the IEEE International Conference on Computer Communication and Informatics (ICCCI 2015), January 8-10, 2015, Coimbatore, India.
- [4] Namani Rakesh, N. Kumaresan, S. Senthil Kumar and M. Subbiah, "Major methods of steady-state analysis of three-phase SEIGs-A summary", Proceedings of the 3<sup>rd</sup> IEEE International Conference on Sustainable Energy Technologies (IEEE ICSET 2012), 24<sup>th</sup> – 27<sup>th</sup> September 2012, Kathmandu, Nepal, pp. 415-419.
- [5] A. Arjun, B.Vinod, N.Kumaresan, D.R. Binu Ben Jose, "A Power Electronic controller for PV-tied Grid-Connected system with single parameter sensing for MPPT using Boost Converter and Line-Commutated Inverter", Proceedings of the 3<sup>rd</sup> IEEE International Conference on Sustainable Energy Technologies (IEEE ICSET 2012), 24<sup>th</sup> – 27<sup>th</sup> September 2012, Kathmandu, Nepal, pp.36-40.
- [6] R. Karthigaivel, N. Kumaresan, and M. Subbiah, "Analysis and control of three-phase SEIGs supplying battery charging loads through single-phase converters" Proceedings of the 6<sup>th</sup> IEEE international Conference on ICIIS 2011, 16<sup>th</sup> – 19<sup>th</sup> August 2011, Sri Lanka.
- [7] N. Kumaresan, R. Karthigaivel and M. Subbiah, "Single-phase Self-excited Inductor Alternators For Renewable Energy Electric Conversion Systems" Proceedings of the 6<sup>th</sup> IEEE international Conference on ICIIS 2011, 16<sup>th</sup> – 19<sup>th</sup> August 2011, Sri Lanka.
- [8] S. Senthil Kumar, N. Kumaresan, and T. Karthikeyan, "A Simple Analog Voltage Controller for Three-Phase Single Switch Boost Rectifier", Proceedings of 10<sup>th</sup> International Conference on Environment and Electrical Engineering (EEEIC- 2011), 8-11, May 2011, Rome, Italy.
- [9] R. Karthigaivel, N. Kumaresan, N. Ammasaigounden, G. Meena Devi and M. Subbiah, "Identification and analysis of operating modes of single-phase semi-converter fed battery charging circuits using Symmetrical Angle Control Scheme - A monograph", Proceedings of the International Conference ICIAS 2010, during June 15-17, 2010, Malaysia.
- [10] M.Senthil Kumar, N. Kumaresan, R. Karthigaivel and M. Subbiah, "Determination of Boundary Values of Excitation Capacitance and Load Parameters for Wind-Driven Self-Excited Induction Generators", Proceedings of the International Conference ICIAS 2010, during June 15-17, 2010, Malaysia.

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- [11] K.Vijayakumar, A. Arjun, R.Karthigaivel and N.Kumaresan, "A Simple Feed Forward Controller for Stand-Alone Wind-Driven Permanent Magnet Synchronous Generator", Proceedings of the International Conference INDICON 2009, during 18 – 20 December, 2009, Gandhinagar Gujarat India.
- [12] R. Karthigaivel, N. Kumaresan, N. Ammasaigounden, G. Meena Devi and M. Subbiah, "Identification and analysis of operating modes of single-phase semi-converter fed battery charging circuits using Extinction Angle Control scheme - A monograph", Proceedings of the International Conference TENCON 2009, during November 23-26, 2009, Singapore.
- [13] R. Karthigaivel, N. Kumaresan and M. Subbiah, "A three stage stator switching scheme for MWh and MVARh saving in induction motors", Proceedings of the 8<sup>th</sup> International Power Engineering Conference (IPEC 2007), 3-6, December 2007, Singapore, India, pp.1529-1534.
- [14] N. Sumathi, M.P. Selvan and N. Kumaresan, "A Hybrid genetic algorithm based power system stabilizer", Proceedings of the International Conference on Intelligent & Advanced Systems (ICIAS 2007), 25-28, November 2007, Kulalumpur, Malaysia, pp. -.
- [15] R. Poornima, P. Suganya, N. Kumaresan and M. Subbiah, "Operating modes of single-phase thyristor converter fed dc drives using Phase Angle Control scheme - A monograph", Proceedings of 2006 IEEE International Conference on Industrial Technology, 15-17, December 2006, Mumbai, India, pp.2402-2407.
- [16] N. Kumaresan and M. Subbiah, "Design optimisation of wind-driven grid-connected delta-star induction generators using Genetic Algorithm", Proceedings of the sixth international conference on Electrical Rotating Machines ELROMA-2004, IEEMA, 4<sup>th</sup> and 5<sup>th</sup> February 2004, New Delhi, India, pp.1-3-1-8.
- [17] N. Kumaresan and M. Subbiah, "High frequency industrial power supplies using inductor alternators driven by Bio-mass gasifier based systems", proceedings of the IEEE TENCON 2003 (IEEE Region 10 Technical Conference on Convergent Technologies For The Asia-Pacific), 15-17 October 2003, Bangalore, India, vol.1, pp.273-277.
- [18] N. Kumaresan, N. Ammasaigounden and M. Subbiah, "Certain control strategies for three-phase semi-converters for the operation of self-excited induction generators", Proceedings of 2002 IEEE International Conference on Industrial Technology, 11-14, December 2002, Bangkok, Thailand, Vol.II, pp. 986 – 991.
- [19] N. Kumaresan, N. Ammasaigounden, M. Subbiah and T.R. Selvakumar, "A Thyristor Controller for Energy Conversation in Three-phase Induction Motors", Proceedings of the Fifth International Conference on Electrical Rotating Machines ELROMA-99, IEEMA, 25<sup>th</sup> and 26<sup>th</sup> January 1999, Mumbai, India, pp.1-1-1-8.

### **21.4 National conference publications**

- [1] J. Kavitha, N. Kumaresan and M. Subbiah, "Analysis and Design Optimisation of Self-Excited Induction Generators using Genetic Algorithm" Proceedings of IEE national conference, Recent Advances in Power System & Power Electronics (RAPSPE) 2005, 20<sup>th</sup> August, 2005, College of Engineering & Management, Kolaghat, West Bengal, India, pp.153-157.
- [2] R. Karthigaivel and N. Kumaresan, "Wind-driven three-phase induction generators feeding power to single-phase grid", Proceedings of the National Conference on Emerging Trends in

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Electrical Engineering and Power Drives (NACPED`05), 20<sup>th</sup> April 2005, Govt. College of Engg. Tirunelveli -07, India, vol.1, pp.28-34.

- [3] K.Dhanasekaran and N. Kumaresan, "Optimal power flow solution using Genetic Algorithm", Proceedings of the National Conference on Emerging Trends in Electrical Engineering and Power Drives (NACPED`05), 20<sup>th</sup> April 2005, Govt. College of Engg. Tirunelveli -07, India, vol.1, pp.35-41.
- [4] N. Kumaresan and M. Subbiah, "Analysis and control of wind-driven self-excited induction generators with load matching", Proceedings of the Eleventh National Power Systems Conference NPSC 2000, Vol.1, IISc, Bangalore, India, December 2000, pp.21-26.

### (C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number