

CURRICULAM VITAE

Dr. P. Sanjeevikumar, Ph.D. (UniBo, Italy)

Member IEEE

Ministry of University Research (MIUR) Fellow (Govt. of Italy)

Associate Professor

School of Electrical Engineering (SELECT)

VIT University

Vandalur Kelambakkam Road,

Chennai – 600 127. India.

E-mail: sanjeevi_12@yahoo.co.in

Mobile: +91-98431-08228

<https://sites.google.com/site/sanjeevikumarpadmanaban>



Personal Profile:

Father's Name : Padmanaban. S.

D.O.B : 12.12.1978

Gender : Male.

Personal Traits : Hardworking, Duty conscious, Optimistic & Self-confident.

Postal Address : 38, 1st Floor, Nainieappapillai Street,
Puducherry - 605 001. India.

Educational Profile:

Ph.D.: Doctor of Philosophy in Electrical Engineering (Power Electronics) – Alma Matter Studiorum 1088AD – University of Bologna, Italy (January 2009 – March 2012).

M.Tech.: Master of Technology in Electrical Drives and Control (Power Electronics) – Pondicherry University – May 2006 – First Class with Distinction – 8.514 CGPA.

B.E.: Bachelor of Engineering in Electrical and Electronics – Madras University – April 2002 – First Class – 70.23%.

Professional Experience:

**Associate Professor / School of Electrical Engineering
VIT University, Chennai-Campus.**

Vandalur-Kelampakkam Road,

Chennai – 600 127. India. Since 6th August 2012.

post-Ph.D Research Fellow

Alma Matter Studiorum 1088A.D

University of Bologna

Department of Electrical Engineering, Bologna, Italy. (Jan. 2012 – May 2012).

Ph.D Research Scholar

Alma Matter Studiorum 1088A.D

University of Bologna

Department of Electrical Engineering,
Bologna, Italy. (Jan. 2009 – Dec. 2011).

Project Head

Simulation Solutions. (Jan. 2008 – Dec. 2008).

Manager - Training

EDUTECH India and Dubai, UAE. (July 2007 – Dec. 2007).

Lecturer - Electrical and Electronics Engineering

I.F.E.T COLLEGE OF ENGINEERING

Villupuram District, Tamilnadu,
India. (Dec. 2002 – June 2004) & (June 2006 – July 2007).

Achievements:

- Selected as a Nominee for “SD award for Contribution to Power Electronics 2006”, Soft Disk Magazine, Bhopal, India.
- Obtained “S” grade in M.Tech. Project for Hardware Implementation in DSP TMS320LF2407.
- Selected to pursue Ph.D. in Power Electronics with MHRD (India) Full Scholarship, Department of Electrical Engineering, IIT-Madras 2007.
- Selected to pursue Ph.D. in Power Electronics with MIUR-Ministry for University Research, Government of Italy Comprehensive Full Scholarship, Department of Electrical Engineering, University of Bologna, Italy (2009-2011) with the merit of **first rank** in Ph.D competition 2009 by securing 110/120 marks. Scholarship amount 1050 euros/month and allowances etc.
- Selected to pursue post-Ph.D. in Power Electronics with Department of Electrical Engineering Research Government of Italy Comprehensive Full Scholarship, University of Bologna, Italy (2011-2012). Scholarship amount 1500 euros/month and allowances etc.

Research Area of Interest:

- Investigation for novel topologies of **multiphase motor drives, multiphase inverter, multiphase-multilevel inverter** with focusing **space vector techniques for modeling and dynamic control**.
- Controlling aspect of ac drives in particular, **synchronous reference frame, stationary reference frame** and **direct torque controlling techniques**.
- Design and analysis of conventional inverter, multilevel inverters, stacked multi-cell inverter for reduction of harmonics and fundamental improvement with PWM techniques.
- Design and analysis of ac/dc converter and high voltage dc-dc converter topologies. Power factor correction techniques for ac-dc converters, Alternative topologies for matrix converter, switch reduction techniques.
- Design and analysis of resonant converter topologies with pwm techniques.
- Analysis of PI, Fuzzy and Neural controlling techniques for converters. Power Electronics applications towards ac and dc drives, FACTS and Renewable Energy Systems (Photovoltaic/Wind Generation systems).

Consultant Services:

M/S OHM Technologies

(Educational Product/Research Developer for Technological Universities and Engineering Colleges in India)

10/39, VC Garden, 2nd Street,
Mandaveli, Chennai - 600 028.
India.

Mobile: +91-98842-39763.

EduTech

(Education Product Solution Provider for Technological Universities and Engineering Colleges in India, UAE, Singapore, Malaysia, Gulf Countries (UAE, Qatar, Oman, Dubai, Saudi Arabia, Kuwait, Qatar, Jordan etc.), United States)

Crystal Lawn,
No. 20, Ist Street, Haddows Road,
Chennai - 600 006.
India.

Phone: +91-44-2833-0999.

Fax: +91-44-2833-1777.

Membership in Professional Bodies:

- **Member – IEEE Association.** Membership Number: 90558810.
- **Awarded Honorary Life Member – Institute of Doctors Engineers and Scientists (IDES).** Membership Number: 1126.
- **Member – International Association of Engineers (IAENG), Hongkong.** Member of IAENG Society of Electrical Engineering, IAENG Society of Industrial Engineering, IAENG Society of Scientific Computing. Membership Number: 101965.
- **Member – World Academy of Science, Engineering and Technology (WAST).**
- **Member – International Scientific Academy of Engineering and Technology (ISAET).** (Assisted by – King Mongkut's University of Technology, Thonbur). **Scientific Technical Committee and Editorial Board** on Engineering and Technology.
- **Senior Member – The Institute of Research Engineers and Doctors (IRED) – Editorial Board – Universal Association of Computer and Electronics Engineering (UACEE). Editorial Board – Universal Association of Mechanical and Aeronautical Engineers(UAMAE).** (India, London, Australia, Hungary). Membership Number: SNM1003087.
- **Member – Global Science and Technology Forum (GSTF), Singapore for Annual International Conference Power, Energy and Electrical Engineering Conference (PEEE).**
- **Member – Editorial Board – International Journal of Power Electronics and Drive Systems (IJPEDS).** Governed by Institute of Advanced Engineering and Science. (Collaborated and Index with **ELSEVIER Journal, University of Nottingham**, UK and etc.,).
- **Member – Editorial Board – Science International Journal Publications, P.O. Box 126208, Dubai, United Arab Emirates (UAE).**

- **Member** – International Innovative Scientific and Research Organization (IISRO). **Technical Committee Advisory Member**.
- **Member** – Association of Computer Electronics and Electrical Engineers (ACEEE), India. Membership Number: 7000356.
- **Member – Editorial Board** – International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (**IJAREEIE**).
- **Member – Editorial Board** – Enhanced Research (**ER**) Publications. International Publishers, Distributors and Subscription Agents of research journals, newsletters and innovative magazines.
- **Member – Advisory Editorial Board** – International Foundation for Modern Education and Scientific Research (**INFOMESR**). INFOMESR, 2181 Zahraa Nasr City, Apt. # 41, Nasr City, Cairo-11818, Egypt.
- **Member – Editorial Board** – International Journal of Trends in Electrical Engineering. Science, Technical and Medical Journal (**STM**), Division of Consortium e-learning Network Pvt. Ltd., A-105, Level-III, Sector-63, Noida, Uttra Pradesh - 201 301, India.
- **Member – Editorial Board** – International Journal of Power Electronics and Power Systems. Science, Technical and Medical Journal (**STM**), Division of Consortium e-learning Network Pvt. Ltd., A-105, Level-III, Sector-63, Noida, Uttra Pradesh - 201 301, India.
- **Member – Editorial Board** – International Journal of Engineering Science and Technology (**IJEST**).
- ****Member** – National Mission on Power Electronics Technology (**NaMPET**), CDAC, Thiruvananthapuram, Kerala, India.

IEEE cum OTHER INTERNATIONAL LEVEL PARTICIPATION:

IEEE – United Symposium. IEEE – SLED 2013 – 4th International Symposium on Sensor-less Control for Electrical Drives. IEEE – PRECEDE 2013 – 2nd International Symposium on Predictive Control of Electrical Drives and Power Electronics, Organized by University of Munich (Technical University), Germany (Europe). 17-19 October 2013. **International Steering Committee Member cum Reviewer**.

IEEE-IECON 2013 – 39th Annual Conference of the IEEE Industrial Electronics Society. Vienna, Austria (Europe). 10-13 November 2013.

Special Session on: ‘Multi-phase Winding (More than Three-Phase) AC Machines’

Organizers and Track Chair cum Reviewer:

Dr.P.Sanjeevikumar, Ph.D. (UniBo, Italy), VIT University, Chennai-Campus, India. Organizer. Prof.Dr.Atif Iqbal, Ph.D. (Liverpool, UK), Chair/Organizer, Qatar University, Qatar. Session Chair. Prof.Dr.Haitam Abu-Rub, Texas A&M University, Qatar. Session Chair.

IET-SEISCON 2012 – IET(UK, Chennai) sponsored International Conference on Sustainable Energy and Intelligent System @.Vivekanandha College of Technology for Women, Tiruchengode, Tamilnadu, India. 27-29 December 2012. International Advisory Committee Member.

IEEE-ICIT 2013 – International Conference, on Industrial Technology, Cape Town, South Africa. 25-27 February 2013.

Special Session on Multiphase Drive Technology (High-Phase (More than Three-Phase) Drive Systems)

Special Session Organizer and Track Chair cum Reviewer:

Prof.Dr.Atif Iqbal, Ph.D. (Liverpool, UK), Qatar University, Qatar. Organizer/Session Chair. Prof.Dr.Haitam Abu-Rub, Texas A&M University, Qatar. Organizer/Session Chair. Dr.P.Sanjeevikumar, Ph.D. (UniBo, Italy), VIT University, Chennai-Campus, India. Organizer/Session Chair.

ICACCT 2013 – International Conference on Advances in Computing and Communication Technologies, Pattaya, Thailand. 19-20 January 2013. **Technical Advisory Committee Member cum Reviewer.**

ICLTEEE 2013 – International Conference on Latest Trends in Electronics and Electrical Engineering, Pattaya, Thailand. 19-20 January 2013. **Technical Advisory Committee Member cum Reviewer.**

EECS 2013 – International Conference on Electrical Engineering and Computer Sciences. Tokyo, Japan. 15-17 March 2013.

Technical Advisory Committee Member cum Reviewer.

ICEEGS 2013 – International Conference on Electronics Engineering and Grid System, Bangkok, Thailand. 29-30 June 2013. **Technical Advisory Committee Member cum Reviewer.**

ICCNIT 2013 – International Conference on Computer Networks and Information Technology, Bangkok, Thailand. 29-30 June 2013. **Technical Advisory Committee Member cum Reviewer.**

AICPEEE 2013 – Annual International Conference on Power, Energy and Electrical Engineering (PEEE), Singapore. 5-6 August 2013. **Program Committee Member cum Reviewer.**

IEEE cum Other National Level Participation (India):

(National Advisory cum Program Committee Member cum Reviewer)

IC-EECS 2012 – International Conference on Electrical Engineering & Computer Science. Organized by Interscience Publishing Network (**IRNet**). **Venue** at The King's Hotel, 32, Halls Road, Egmore, Chennai - 600 009, India. 25th November 2012.

IC-AECE 2012 – International Conference on Advances in Electronics and Communication Engineering. Organized by Interscience Publishing Network (**IRNet**). **Venue** at The King's Hotel, 32, Halls Road, Egmore, Chennai - 600 009, India. 25th November 2012.

IEEE-ICRCC 2012 – International Conference on Radar, Communication and Computing @ S.K.P Engineering College, Thiruvannamalai, Tamilnadu, India. 21-22 December 2012.

ICAC3 2013 – *International Conference on Advances in Computing, Communication and Control* @ Fr. Conceicao Rodrigues College of Engineering, Fr. Agnel Ashram, Bandstand, Bandra, Mumbai - 400050, India. 18-19 January 2013.

ICICT 2013 – *International Conference on Information, Computing and Telecommunications*. Organized by Interscience Publishing Network (**IRNet**). **Venue** at The King's Hotel, 32, Halls Road, Egmore, Chennai - 600 009, India. 20th January 2013.

IEEE-ICPEC 2013 – *International Conference on Power, Energy and Control* @ PSNA College of Engineering, Dindigul, Tamilnadu, India. 06-08 February 2013.

IEEE-IACC 2013 – *3rd International Conference on Advanced Computing*, Ghaziabad, Uttra Pradesh, India. 22-23 February 2013.

IEEE-ICE-CCN 2013 – *International Conference on Emerging Trends in Advanced Computing, Communication and Nanotechnology* @ Infant Jesus College of Engineering and Technology, Keela Vallanadu, Tamilnadu, India. 25-26 March 2013.

ACCT 2013 – *International Conference on Advanced Computing and Communication Technologies*. Organized by **RG Society** (India). **Venue** at Gymkhana Club, HUDA Sector 4, (Rohtak) India. 6-7 April 2013.

Invited Program/Session Chari for International Conference:

ICECS 2012 – *International Conference on Electronics, Communication and Signal Processing*. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 4th November 2012, Bangalore, India. **Program Chair**.

ICEECS 2012 – *International Conference On Electrical, Electronics And Computer Science*. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 8th November 2012, Goa, India. **Program Chair**.

ICAEEE 2012 – *International Conference on Advanced Electrical Electronic Engineering*. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 25th November 2012, Vizag, India. **Program Chair**.

ICEECS 2012 – *International Conference on Electrical, Electronics and Computer Science*. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 25th November 2012, Chandigarh, India. **Program Chair**.

ICAEEE 2012 – *International Conference On Advances in Electrical, Electronics Engineering*. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 2th December 2012, Pune, India. **Program Chair**.

ICEECS 2012 – *International Conference on Electrical, Electronics and Computer Science*. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 2nd December 2012, Bhubaneswar, India. **Program Chair**.

ICECS 2012 – International Conference on Electronics, Communication and Signal Processing. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 9th December 2012, Trivandrum, India. **Program Chair.**

ICECS 2012 – International Conference on Electronics, Communication and Signal Processing. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 16th December 2012, Nagpur, India. **Program Chair.**

ICEECS 2012 – International Conference on Electrical, Electronics and Computer Science. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 16th December 2012, Triupathi, India. **Program Chair.**

ICEEEA 2012 – International Conference on Electrical, Electronics Engineering and Application. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 27th December 2012, Bangalore, India. **Program Chair.**

ICECS 2012 – International Conference on Electronics, Communication and Signal Processing. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 30th December 2012, Guntur, India. **Program Chair.**

ICEECS 2012 – International Conference on Electrical, Electronics and Computer Science. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 31st December 2012, Goa, India. **Program Chair.**

ICAEEE 2013 – International Conference on Advances in Electrical and Electronics Engineering. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 6th January 2013, Hyderabad, India. **Program Chair.**

ICAEEE 2013 – International Conference on Electrical and Electronics Engineering. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 6th January 2013, Greater Noida, India. **Program Chair.**

ICAEEE 2013 – International Conference on Advances in Electrical and Electronics Engineering. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 13th January 2013, Jaipur, India. **Program Chair.**

ICAEEE 2013 – International Conference on Advances in Electrical and Electronics Engineering. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 20th January 2013, Pune, India. **Program Chair.**

ICEECS 2013 – International Conference on Electrical, Electronics and Computer Science. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 23rd January 2013, Goa, India. **Program Chair.**

ICEEE 2013 – International Conference on Electrical and Electronics Engineering. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 27th January 2013, Mysore, India. **Program Chair.**

ICECS 2013 – International Conference on Electronics, Communication and Signal Processing. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 27th January 2013, Cochin, India. **Program Chair.**

ICSSEE 2013 – 1st International Conference on Systems, Signal Processing and Electronics Engineering. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 2nd February 2013, Puri, India. **National Advisory Committee Member.**

ICASCVS 2013 – 1st International Conference on Advance in Soft Computing and Vision Sciences. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 2nd February 2013, Puri, India. **National Advisory Committee Member.**

ICIIE 2013 – 1st International Conference on Information and Industrial Electronics. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 3rd February 2013, Chennai, India. **National Advisory Committee Member.**

ICCSCM 2013 – 1st International Conference on Computer Science & Computational Mathematics. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. Chennai, 3rd February 2013. **National Advisory Committee Member.**

ICACIT 2013 – 1st International Conference on Advances in Computer and Information Technology. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. Ahmedabad, 10th February 2013. **National Advisory Committee Member.**

ICSIP 2013 – 1st International Conference On Signal Processing, Image Processing And Pattern Recognition. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 10th February 2013, Ahmedabad, India. **National Advisory Committee Member.**

ICICCA 2013 – 1st International Conference on Instrumentation Communication, Control and Automation. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. Nagpur, 17th February, 2013. **National Advisory Committee Member.**

ICETCIP 2013 – 1st International Conference on Emerging Trends in Computer and Image Processing. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 17th February 2013, Nagpur, India. **National Advisory Committee Member.**

ICETCIP 2013 – 1st International Conference on Emerging Trends in Computer and Image Processing. Organized by Institute for Research and Development India (**IRD India**), Bhubaneswer, India. 24th February 2013, Bangalore, India. **National Advisory Committee Member.**

ICICCA 2013 – 1st International Conference on Instrumentation Communication, Control and Automation. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 24th February 2013, Bangalore, India. **National Advisory Committee Member.**

ICACITY 2013 – 1st International Conference on Advances in Computing and Information Technology. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 28th February 2013, KanyaKumari, India. **National Advisory Committee Member.**

ICICCA 2013 – 1st International Conference on Instrumentation Communication, Control and Automation. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 28th February 2013, KanyaKumari, India. **National Advisory Committee Member.**

ICEEGS 2013 – International Conference on Electronics Engineering and Grid System. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 3rd March 2013, Mumbai, India. **Program Chair.**

ICFIT 2013 – International Conference on Future Information Technology. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 3rd March 2013, Mumbai, India. **National Advisory Committee Member.**

ICEECS 2013 – International Conference on Electrical, Electronics and Computer Science. Organized by Institute for Research and Development India (IRD India), Bhubaneswer, India. 24th March 2013, Chandigarh, India. **Program Chair.**

Invited Keynote/Plenary Speaker for International Conference:

IET-SEISCON 2012 – IET(UK, Chennai) sponsored International Conference on Sustainable Energy and Intelligent System @.Vivekanandha College of Technology for Women, Tiruchengode, Tamilnadu, India. 27-29 December 2012. On topic: “Multiphase Induction Motor for High Power Applications”

ICEE 2013 – International Conference on Electrical Engineering. 19-20 January 2013. Organized by International Academic and Industrial Research Solutions (IAIRS). The Golkonda Hotel Banjara Hills, Masab Tank, Hyderabad, Andhra Pradesh, India. On topic: **Multiphase Technology (Higher than Three-Phase) Induction Drives-Technology.**

Invited Guest Lectures:

Invited for Resource Person cum Guest Lecture for: National Level Workshop on Topic “**Computation Intelligence to Reduce Torque Ripple for Switched Reluctance Motor (SRM)**”. Sponsored by (DRDO) Department of Defense and Development Organization, Government of India. Organized by Department of Electrical and Electronics Engineering, **Paavai College of Engineering**, Namakkal – 637 018, India. 5th January 2013.

Contributed Resource Lecture Speech for Workshop: ***“Controlling Aspects of Switched Reluctance Motor by Fuzzy and Neural Compensator for Reliable Torque Ripple Minimization”***.

Invited for Resource Person cum Guest Lecture for: National Level Seminar on Topic ***“Soft Computing Techniques for Power System and Power Electronics Applications”***. Organized by School of Electrical Engineering, **VIT University, Chennai-Campus**, Chennai – 600 127, India. 4th January 2013.

Contributed Resource Lecture Speech for Workshop: ***“Design and Development of PI, Fuzzy and Neural Compensator for Power Electronic Converters”***.

Invited Resource Person cum Guest Lecture for: Faculty Development Program (FDP) on topic ***“Renewable Energy Sources Technology and Applications”***, Sponsored by (DST-NIMAT) Department of Science and Technology, Government of India and Entrepreneurship Development Institute of India. Organized by Department of Electrical and Electronics Engineering, **Arunai College of Engineering**, Tiruvannamalai – 606 603, India. 14th December 2012.

Contributed Resource Lecture Speech for FDP: ***“Solar PV Energy System and Its Development with Power Electronics Converters”***.

Invited Guest Lecture on Topic: *'Multiphase-Multilevel ac motor drive technology and its fault diagnostics'* @ Arunai College of Engineering, Tiruvannamalai, Tamilnadu, India. 9th August 2012.

Research Contribution to Matlab User Community:

Contributed basic matlab simulation modeling of **Three-Phase Inverter and DC-DC Converter** files for research community and more than 5000 plus candidates are benefited throughout the world and continue to utilize with rating of 250 plus download per month, **since 2007**.

Reviewer Assignments (Conference/Journal):

- **IEEE – Power Electronics, Industrial Electronics.**
- **IDES – Institute of Doctors Engineers and Scientists.**
- **ACEEE – Association of Computer, Electronics and Electrical Engineers.**
- **IAENG – International Association of Engineers.**
- **JPE – Journal of Power Electronics, The Korean Science and Technology, Korea.**
- **JESTEC – Journal of Engineering Science and Technology, Taylor's University, Malaysia.**
- **Frontier in Energy – Spinger Journal, Higher Educational Press, Governed by Shanghai Jiao Tong University, China.**
- **ISAET – International Scientific Academy of Engineering and Technology.**
- **IISRO – International Innovative Scientific and Research Organization.**
- **WSEAS – World Scientific and Engineering Academy and Society.**
- **WAST – World Academy of Science, Engineering and Technology.**
- **IJAREEIE – International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering.**

- **GSTF – PEEE** – Global Science and Technology Forum, Singapore for Annual International Conference Power, Energy and Electrical Engineering Conference. (Official link available soon).
- **IREG – The Institute of Research Engineers and Doctors – UACEE** – Universal Association of Mechanical and Aeronautical Engineers. (India, London, Australia, Hungary). **UACEE** – Universal Association of Computer and Electronics Engineering. Reviewer ID No.: EE-3021.

Technical Software Knowledge:

- **MATLAB, PLECS**
- **PSIM, ORCAD**
- **CCS (DSP TMS320F2812 – Code composer studio)**
- **VisSim (Visual Simulation)**
- **National Instrument LabView, MultiSim**

Publications:

National Conference Proceedings	:5 Published.
International Conference Proceedings	:9 Published.
International Journals	:8 Published, 1 Accepted for Publication.
Research Articles	:3 Published.

Ph.D. Project:

Title: “Analysis and Implementation of Multiphase-Multilevel Inverter for Open-Winding Loads”

Book Publications:

"Multiphase-Multilevel Inverter for Open-Winding Loads". 2012.

ISBN: 978-3-659-30278-7.

Authors: Dr.P.Sanjeevikumar, Prof.Dr.Gabriele Grandi.

Invited for book Publication and sponsored Indexed by:

LAP LAMBERT Academic Publishing

Trademark: AV Akademikerverlag GmbH & Co. KG

Heinrich-Böcking-Str. 6-8,

66121, Saarbrücken, **Germany**

Paper Presentations:

1. Presented paper work at Thiagarajar College of Engineering, Tamilnadu, India on topic: A PWM based novel matrix converter with simple commutation. 2005.
2. Presented paper work at MEPPCO Schlenek Engineering College, Tamilnadu, India on topic: DC-DC buck converter operated in boost mode for high voltage applications. 2006.

3. Presented paper work at Thiagarajar College of Engineering, Tamilnadu, India on topic: Analysis of DC-DC boost converter with simplified PI controller strategy PWM based novel matrix converter with simple commutation. 2007.
4. Presented paper work at **IEEE-IICPE**, Chennai, India on topic: Performance analysis of AC-DC-AC converter as a matrix converter. 2006.
5. Presented paper work at **IEEE-SPEEDAM**, Pisa, Italy on topic: Multi-phase multi-level ac motor drive based on four three-phase two-level inverters. 2010.
6. Presented research articles, Department of Electrical Engineering, **University of Bologna**, Bologna, Italy on topic: Multiphase-Multilevel Inverter application for Multiphase Induction motor drive systems.
7. Presented research articles, Department of Electrical Engineering, **University of Bologna**, Bologna, Italy on topic: Power sharing capabilities of Multiphase-Multilevel Induction motor drive closed loop control system.

Additional Information:

I had done training in Engineering Educational Products from Feedback, Lego, Terco, TIMS, Matlab and Lab View software technical products at **Petroleum Institute, University of Sharjah, University of Ajman, American University of Sharjah** and **Institute of Applied Technology** in United Arab Emirates (UAE).

Information provided scopus Author Identity Number =18134802000

Link: <https://www.scopus.com/authid/detail.url?authorId=18134802000>

Information provided by Google Scholar

Link: <https://scholar.google.com/citations?user=5JOzIRwAAAAJ&hl=en>

Information provided by Research Gate

Link: https://www.researchgate.net/profile/P_Sanjeevikumar/

Information provided by Hindawi Publisher, US

Link: <https://www.hindawi.com/25384739/>

DECLARATION

I declare that the details furnished above are true to the best of my knowledge and belief.

PLACE: Puducherry

(P. SANJEEVIKUMAR)

List of Publications

National Conference Proceedings:

1. **P. Sanjeevikumar**, J. Kumaraguru, R. Ravi, K. Prabakaran, "Analysis of DC-DC boost converter with simplified PI controller strategy", in *Proc. of National Level Power Engineering Conf., NPEC'07, Thiagarajar College of Engineering, Tamilnadu, India*, pp. no. 113-124, 2007.
2. **P. Sanjeevikumar**, P. Dilipkumar, S. Tamilselvi, R. Ravi, J. Radha, "Performance analysis of SVPWM for three-phase VSI", in *Proc. of National Conf., on Trends in Instrumentation and Control, Karunya University, Coimbatore, Tamilnadu, India*, pp. no. 102-109, 2006.
3. **P. Sanjeevikumar**, K. Prabakaran, P. Pavani, I. Ramadevi, J. Kumaraguru, "DC-DC boost converter topologies for high voltage applications", in *Proc. of National Conf., on Trends in Instrumentation and Control, Karunya University, Coimbatore, Tamilnadu, India*, pp. no. 144-145, 2006.
4. **P. Sanjeevikumar**, B. Geethalakshmi, "DC-DC buck converter operated in boost mode for high voltage applications", in *Proc. of National Level Power Engineering Conf., MEPPCON'06, MEPPCO Schlenek Engineering College, Tamilnadu, India*, pp. no. 195-199, 2006.
5. **P. Sanjeevikumar**, B. Geethalakshmi, "A PWM based novel matrix converter with simple commutation", in *Proc. of National Level Power Engineering Conf., NPEC'05, Thiagarajar College of Engineering, Tamilnadu, India*, pp. no. 90-96, 2005.

International Conference Proceedings:

1. G. Grandi, **P. Sanjeevikumar**, Y. Gritli, F. Filippetti, "Experimental investigation of fault-tolerant control strategies for quad-inverter converters", in *IEEE Proc. Intl. Conf. on Electrical System for Aircraft, Railway and Ship Propulsion, ESARS'12, Bologna (Italy)*, 16-18 Oct. 2012.
2. G. Grandi, **P. Sanjeevikumar**, Y. Gritli, F. Filippetti, "Fault-tolerant control strategies for quad-inverter induction motor drives with one failed inverter", in *IEEE Proc. 20th Intl. Conf. on Electrical Machines, ICEM'12, Marseille (France)*, pp. 957-964, 2-5 Sept. 2012.
3. G. Grandi, **P. Sanjeevikumar**, D. Casadei, "Preliminary hardware implementation of a six-phase quad-inverter induction motor drive," in *Intl. Conf. Proc. European Power Electron. and Appl. Conf., EPE'11, Birmingham (United Kingdom)*, pp. 1-9, 30 Aug.-1 Sept. 2011.
4. G. Grandi, **P. Sanjeevikumar**, D. Ostojic, C. Rossi, "Quad-inverter configuration for multi-phase multi-level ac motor drives," in *Intl. Conf. Proc. IEEE-SIBIRCON, Irkutsk Listvyanka (Russia)*, pp. 631-638, July 11-15, 2010.
5. G. Grandi, A. Tani, **P. Sanjeevikumar**, D. Ostojic, "Multi-phase multi-level ac motor drive based on four three-phase two-level inverters," in *Intl. Conf. Proc. IEEE 20th Symposium on Power Electron., Electrical Drives etc., SPEEDAM'10, Pisa (Italy)*, pp. 1768-1775, June 2010.
6. **Sanjeevikumar**, Y. Thiagarajan, "Efficient voltage regulation of stand-alone PV cell for AC voltage Application", in *Proc. of International Conf. on Electrical*

Energy Systems and Power Electronics in Emerging Economies, ICEESPEEE-2009, SRM University, Chennai, India, pp. 225-231, 16–17 April 2009.

7. **P. Sanjeevikumar**, Y. Thiagarajan, T.S. Sivakumaran, “Design of fuzzy logic controller for a DC-AC converter for a grid connected system using PV cell”, in *Proc. IEEE Intl. Conf. on Computing, Communication and Networking, IEEE-ICCCN'08*, Chettinad College of Engineering and Technology, Tamilnadu, India, Dec. 2008.
8. **P. Sanjeevikumar**, B. Geethalakshmi, P. Dananjayan, “A PWM current source rectifier with leading power factor”, in *Proc. IEEE Intl. Conf. on Power Electronics, Drives and Energy Systems for Industrial Growth, IEEE-PEDES'06*, Indian Institute of Technology-Delhi, India, 2006.
9. **P. Sanjeevikumar**, B. Geethalakshmi, P. Dananjayan, “Performance analysis of AC-DC-AC converter as a matrix converter”, in *Proc. of Indian International Conf. on Power Engineering, IEEE-IICPE'06*, Chennai, India, pp. no. 57-61, 2006.

International Journals:

1. Grandi, **P. Sanjeevikumar**, Y. Gritli, F. Filippetti, “Analysis and validation of fault-tolerant control strategies for quad-inverter AC motor drives”, *submitted for IEEE Trans. On Power and Energy Systems (PES) 2012*. (Under Review).
2. V. Oleschuk, G. Grandi, **P. Sanjeevikumar**, “Simulation of processes in dual three-phase system on the base of four inverters with synchronized modulation”, in *Proc. Advances in Power Electronics Journal, Hindawi Publishing Corporation, US*, vol. 2011, Article ID 581306, 9 pages, Dec. 2011. DOI:10.1155/2011/581306. ISSN: 2090-181X, EISSN: 2090-181X.
3. **P. Sanjeevikumar**, K. Rajambal, A. Chinnaponnu, “Comparison of MLI and Z-source inverter for transformer-less operation of single-phase photovoltaic system”, in *Proc. Thammasat International Journal of Science and Technology (TIJSAT)*, Thailand, vol. 15, no. 1, pp. 37-47, 2010. ISSN 0859-4074.
4. **P. Sanjeevikumar**, P. Pugazhendiran, V. Rajeswari, “Improvement of power system voltage stability using fuzzy based index”, in *Proc. Journal of Electrical Engineering, Politehnica Publishing House, Timisoara, Romania*, vol. 9, Edition 3, pp. 50-56, Sept. 2009. ISSN: 1582-4594.
5. **P. Sanjeevikumar**, K. Rajambal, Anbarasan, “Identification of voltage collapse point in self-excited induction generator”, in *Proc. Songklanakarinn Journal of Science and Technology, Hat Yai, Songkla, Thailand*, vol. 31. no. 4, pp. 441-446, Jul.–Aug. 2009. ISSN: 01253395.
6. **P. Sanjeevikumar**, K. Rajambal, G. Balaji, “Investigation of DC-DC converter topologies for future microprocessor”, in *Proc. Asian Power Electronics Journal (APEJ) of Research*, Hung Hom, Hong Kong, Vol. 2, No. 2, pp. 89-95, October 2008. Digital ref: AI70301193. ISSN: 1995-1051.
7. **P. Sanjeevikumar**, K. Rajambal, “AC-DC-AC converter with reduced switches as matrix converter”, in *Proc. Asian Power Electronics Journal (APEJ) of Research*, Hung Hom, Hong Kong, vol. 2, no. 1, pp. 61-65, April 2008. Digital ref: AI70201188. ISSN: 1995-1051.
8. **P. Sanjeevikumar**, K. Rajambal, “Extra high voltage DC-DC boost converters with simplified control strategy”, in *Proc. International Journal of Modeling and Simulation, Hindawi Publishing Corporation, US*, vol. 2008, Article ID 593042, 8 pages, DOI: 10.1155/2008/593042. ISSN: 1697-5591, EISSN: 1687-5605.

9. **P. Sanjeevikumar**, B. Geethalakshmi, P. Dananjayan, "Fine tuning of cascaded D-Q axis controller for AC-DC-AC converter without DC link capacitor using artificial neural network", in *Proc. Songklanakarin Journal of Science and Technology, Hat Yai, Songkla, Thailand*, vol. 30. no. 1, pp. 85-92, Jan. - Feb. 2008. ISSN: 01253395.

Research Letters:**(Officially Published in University Research in Italy, Government of Italy)**

1. G. Grandi, **P. Sanjeevikumar**, Y. Gritli, "Tecniche di modulazione per convertitori quadruple inverter trifase in condizioni di quasto", *XXVIII Riunione Annuale dei Ricercatori di Elettrotecnica, ET'12*, Taormina, 2012.
2. G. Grandi, **P. Sanjeevikumar**, "Sperimentazione preliminare di un sistema di conversione multifase multilivello 'quad inverter' ", *XXVII Riunione Annuale dei Ricercatori di Elettrotecnica, ET11*, Bologna, 2011.
3. G. Grandi, D. Ostojic, **P. Sanjeevikumar**, "Configurazione 'quad-inverter' per la propulsione elettrica a bassa tensione e/o alta potenza", *XXVI Riunione Annuale dei Ricercatori di Elettrotecnica, ET10*, Napoli, 2010.
4. G. Grandi, D. Ostojic, **P. Sanjeevikumar**, "Struttura di conversione multifase-multilivello per applicazioni di trazione elettrica", *XXV Riunione Annuale dei Ricercatori di Elettrotecnica, ET09*, Lecce, 2009.