



**Dr. P. Dananjayan** [Chairman CBCS]  
**B.Sc., B.Tech., M.E., Ph. D., FIE,**  
**MCSI, MISTE**  
**PROFESSOR**

## BIO-DATA

### 1. Brief Introduction

**Name** : Dr. P. Dananjayan  
**Designation** : Professor  
**Department** : Electronics and Communication Engineering  
**College** : Pondicherry Engineering College, Pondicherry  
**Other Responsibility:** Chairman, PG Programme (CBCS)

### 2. Educational Profile

Degree	Specialisation	College/University	Year of Passing
B.Sc.	Physics	University of Madras	1979
B.Tech.	Electronics	Madras Institute of Technology, Anna University	1982
M.E.	Electronics	Madras Institute of Technology, Anna University	1984
Ph.D.	Electronics	College of Engineering, Anna University	1998

### 3. Experience (Teaching and Research)

- Teaching experience of 30 years and
- Research experience of 20 years.

#### 4. Research Guidance (No. of Scholars and research area):

➤ He has guided 14 Ph.D. candidates and is currently guiding 6 Ph.D. students.

S.No	Name of the Scholar	Year of Award	Title
1	G. Sivaradje	8 <sup>th</sup> Dec 2006	Mobility Prediction based Bandwidth Allocation in Wireless Mobile Networks
2	L.Nithyanandan	15 <sup>th</sup> Dec 2006	Studies on Capacity Enhancement techniques for Multicarrier CDMA
3	K.Jayanthi	3 <sup>rd</sup> Aug 2007	Some Investigations on Quality Improvement using Link Adaptation Techniques in Cellular mobile networks
4	Alamelu Nachiappan	9 <sup>th</sup> Nov 2007	Studies on Capacity Improvements of MC/CDMA System through Subchannel Power Control
5	S.Jeevananthan	16 <sup>th</sup> Nov 2007	Performance Evaluation of Innovative Control Strategies for Power Electronic Converters
6	Thirusakthi Murugan	20 <sup>th</sup> Feb 2009	Studies on the Controller Design and Identification for the PMLDC Motor
7	B.Geethalaksmi	11 <sup>th</sup> June 2009	Investigations on the Performance of Voltage Source Inverter based FACTS Controllers.
8	V.Nagarajan	21 <sup>st</sup> Jan 2010	Studies on Capacity Enhancement techniques for MIMO Multicarrier DS/CDMA System using Game theoretic approach
9	N.Kumaratharan	26 <sup>th</sup> Mar 2010	Studies on the Performance Enhancement of MC/CDMA System through Site Diversity techniques
10	J.Vidhya	3 <sup>rd</sup> May 2011	Studies on the energy efficient techniques for wireless sensor networks
11	P.Samundiswary	30 <sup>th</sup> June 2011	Studies on Performance of Wireless Sensor Networks using Trust based Reactive Routing Protocols
12	R. Valli	13 <sup>th</sup> Dec 2013	Studies on Lifetime Enhancement Techniques for Wireless Sensor Network
13	P.Mukunthan	28 <sup>th</sup> Feb 2014	Studies on PAPR Reduction Techniques for OFDM and MIMO-OFDM Systems
14	R. Sundaramurthy	14 <sup>th</sup> March 2014	Design and Analysis of Reconfigurable Virtual Instruments with Control Strategies

- **Research Area** : Power electronics, Spread spectrum communication, Wireless communication, Wireless adhoc and sensor networks

#### 5. Publication details (*List of all publications in Journals, Conferences and Books*)

- List of Publications - He has more than 90 publications in National and International Journals. He has presented more than 130 papers in National and International conferences. (Details are enclosed)
- Books Publications - Authored 3 text books
  - Engineering Electromagnetics
  - Transmission lines and waveguides
  - Electromagnetic Waves and Transmission Lines
  - Wireless sensor Network – LAMBERT Academic Publishing, Germany, 2012. (International Publication)
- He has also authored 2 Chapters in 2 International Research Books.

#### 7. Expert Lectures delivered

- He has delivered about 100 Expert Lectures in the areas of Communication, Power Electronics, Electromagnetics and Instrumentation in Summer/Winter Schools. Conferences and Seminars organized by Anna University, Pondicherry University and around 40 Engineering Colleges in Pondicherry and Tamilnadu.

#### 9. Membership with professional bodies

- Fellow of Institution of Engineers(India)
- Life member of CSI, ISTE, and Senior member of International Association of Computer Science and Information Technology

#### 10. Courses/ Conferences/workshop/ seminars organized

S.No	Title	Sponsors	Duration	Responsibility
1	Fiber Optics and applications	Pondicherry Engineering College	1 Day 22.10.1999	Convenor
2	Induction Training Programme for Teachers in Engineering Colleges	AICTE	3 Weeks 28.10.1999 to 17.11.1999	Coordinator

3	Induction Training Programme for Teachers in Engineering Colleges	AICTE	3 Weeks 10.06.2000 to 30.06.2000	Coordinator
4	Induction Training Programme for Teachers in Engineering Colleges	AICTE	3 Weeks 16.04.2001 to 04.05.2001	Coordinator
5	System Modeling and Simulation	AICTE-ISTE	2 Weeks 18.11.2002 to 29.11.2002	Coordinator

### 11. Industrial/ International Relationships

S.No	Country visited	Year	Purpose of Visit
1	Singapore	1999	To present a research paper at International Conference on Information, Communications and signal processing in Nanyang Technological University
2	Thailand	2007	To present a research paper at International Conference on Power Electronics and Drives, Chulalongkorn University.
3	Thailand	2009 (August to December)	Seconded by Government of India as Visiting Professor to Asian Institute of Technology, Bangkok.
4	Malaysia	2011	To present a research paper at SHUSER, Malaysia
5	Srilanka	2012	To Chair the session of International Conference on EAS

### 12. Courses Taught

- Electromagnetic Theory
- Antenna Wave Propagation
- Information Theory Coding
- Cellular Mobile Communication
- CDMA and OFDMA for Wireless Communication

### 13. Other Activities:

He is the member of Governing Body, Pondicherry Engineering College and many self finance colleges.

He is the member of Board of Studies (ECE & EIE), Pondicherry University  
 He served as Chairman, Board of Studies (ECE&EIE), Pondicherry University  
 He served as member, Board of Studies (ECE), Anna University, Annamalai University, SRM University, Kalasingalingam University, SCSVMV University,

Kancheepuram, Govt. College of Engineering- Salem, Govt. College of Technology-Coimbatore, Kongu Engineering College-Erode, KSR Engineering college-Thiruchengode.

#### **14. Reviewer of Journals and Books etc**

- He is the member of several editorial boards and also a reviewer of several reputed international journals and publishers.

#### **14. Any other relevant information**

- Served as Head of the Department of EIE for 8years and ECE for 3 years.
- Visiting Professor, to Asian Institute of Technology (AIT), Bangkok, Thailand and Dr.B.R.Ambedkar Institute of Technology, Andaman.
- Adjudicated around 40 M.S and Ph.D. Thesis of various Universities
- Received “**MAN OF THE YEAR 2003**” award sanctioned by “The American Biographical Institute and its board of International Research”.

# Photo Gallery



## PUBLICATIONS

### INTERNATIONAL JOURNALS

1. **P. Dananjayan** and C. Chellamuthu, "A Constant Frequency Zero Voltage Switching Quasi - Resonant Converter for Aerospace Applications", International Journal of Electronics, U.K., Vol.83, No.3, pp. 397- 416, 1997.
2. **P. Dananjayan**, C. Chellamuthu and S. RamaReddy, "Analysis and Simulation of a Boost Constant Frequency Zero Current Switching Quasi-Resonant Converter", Advanced Modelling and Simulation in Enterprises (AMSE) Journal, France 1997. (ISSN 0761-2494)
3. **P. Dananjayan** and C. Chellamuthu, "A New Boost Constant Frequency ZVS – ZCS Quasi – Resonant Converter", International Journal of Power and Energy Systems, Vol. 18, No.2, pp.116-123, 1998. (ISSN: 1078-3466)
4. **P. Dananjayan**, V.Sriram and C. Chellamuthu, "A Fly Back constant Frequency Zero Current Switching Boost Quasi – resonant Converter", Micro Electronics, Elsevier sciences, U.K, 2000. (DOI: 10.1016/s0026-2692(97)00110-9)
5. G. Sivaradje and **P. Dananjayan**, "A novel dynamic guard channel scheme for channel allocation in cellular mobile networks", International Journal of Computers and Applications, Vol.25, No.4, 2003.(ISSN:1206-212X)
6. G. Sivaradje and **P. Dananjayan**, "A Flexible Channel Allocation with resource prediction for mobile multimedia networks", WSEAS Transactions on Computers, Vol. 3, No.5, pp.1418-1424, November 2004. (ISSN:1109-2750)
7. G. Sivaradje and **P. Dananjayan**, "A Prioritized Dynamic Channel Assignment Scheme Based on Mobility in Micro-cellular Networks", Information Technology Journal, Vol.3, No.3, pp.303-310, 2004. (ISSN:1682-6027)
8. S Jeevananthan, **P.Dananjayan** and A. Mohamed AsifFisal, "A HPWM method for thermal management in a full-bridge inverter with loss estimation and electro-thermal simulation", AMSE periodicals of Modeling, Measurement and Control – Series B: Vol. 73, No.6, pp. 1-20, December 2004. (ISSN:0761-2494)
9. K. Jayanthi and **P. Dananjayan**, "Prediction Based Smart Scheduler Using Neural Network for Wireless Networks", Advanced Modelling and Simulation in Enterprises (AMSE) Journal, France, Vol.1, No.3, pp.18-24, 2005. (ISSN:0761-2494)
10. N. Alamelu and **P.Dananjayan**, "Performance and Capacity Improvements of Subchannel Power Controlled MC-CDMA System under Multipath Channels", International Journal of Mobile Network Design and Innovation, Vol.1, No.1, pp 34-39, 2005. (ISSN:1744-2869)
11. S Jeevananthan, **P Dananjayan** and S Venkatesan, "A Novel Modified Carrier PWM Switching Strategy for Single-Phase Full-Bridge Inverter", Iranian Journal of Electrical and Computer Engineering, Summer Fall -Special Section on Power Engineering, Vol.4, No.2, pp.101-108, Tehran, Iran, 2005. (ISSN:1682-0053)

12. K.Jayanthi and **P.Dananjayan**,“Prediction Based Smart Scheduler Using Neural Network for Wireless Networks”,AMSE Journal, France, June 2005. (ISSN 0761-2494)
13. K.Jayanthi and P.Dananjayan, “Multimedia QoS Provisioning using Opportunistic Scheduling in TDMA/ CDMA Networks”, Int. J. Mobile Network Design and Innovation, Inderscience Publishers, Vol.1, No.3/4, pp.248-257, 2006. (DOI: 10.1504/IJMNDI.2006.012095)
14. L. Nithyanandan and **P. Dananjayan**, “Modified Frequency and Frame Synchronization Algorithms for MC-CDMA System”, Information Technology Journal, Vol.5, No.2, pp.273-280, 2006. (DOI:10.3923/itj.2006.273.280)
15. N. Alamelu and **P.Dananjayan** , “Adaptive Fuzzy Genetic algorithm-based power and threshold SIR control for MC-CDMA systems”, International .Journal of Mobile Network Design and Innovation,Vol.1, No.3/4, pp. 240-247, 2006. (DOI: 10.1504/IJMNDI.2006.012094)
16. G. Sivaradje and **P. Dananjayan**, “Mobility Prediction Based Bandwidth Allocation Supporting Multilevel Degradable QoS”, Journal of System Management, Vol. 3, No.4, pp. 35-44, Nov 2005.
17. G. Sivaradje and **P. Dananjayan**, “A Prediction Based Flexible Channel Assignment in Wireless Networks using Road Topology Information”, International Journal of Information Technology and Web Engineering,Vol 1, No.4, pp. 37-48, Oct-Dec 2006. (ISSN:1554-1045)
18. G. Sivaradje and **P. Dananjayan**, “Prioritized Bandwidth Allocation for VBR Traffic in Mobile Multimedia Networks”, Elsevier International Journal of Electronics and Communication Engineering, Vol. 2, No.4, pp. 36-44, 2006. (ISSN:1434-8411)
19. S.Jeevananthan, **P. Dananjayan** and K.Muruges Kumar, ”Thermal Equalization HPWM Methods for Full-Bridge Inverters and Energy Loss Balancing through Device Priority Swapping”, AMSE periodicals of Modeling, Measurement and Control, Series A: Vol. 79, No.2, pp. 35-52, 2006. (ISSN:0761-2494)
20. S. Jeevananthan, **P. Dananjayan** and G. Jaiganesh, “Conducted noise estimation in a single-phase full-bridge inverter for SPWN, HPWN and TEHPWN methods through ICAP simulation”. AMSE periodicals of Modeling, Measurement and Control – Series A: Vol. 79, No.2, pp. 53-72, 2006. (ISSN:0761-2494)
21. S. Jeevananthan, **P.Dananjayan**and A.Illayaraja “Evolutionary Computing Based Area Integration PWM Technique for Multilevel Inverters”, Journal of Electrical Systems, Vol.3, No.2, pp. 61-72, June 2007. (ISSN:1112-5209)
22. S Jeevananthan, **P Dananjayan** and G Pavankumar, “Area Equalization PWM Techniques for Single-Phase Full Bridge Inverter with Fluctuating DC Input” ELEKTRIKA, Faculty of Electrical Engineering University Teknologi, Malaysia Vol.9, No.1, pp.24-29, 2007. (ISSN:0128-4428)



23. S. Jeevananthan, **P. Dananjayan** and R.Madhavan, "Novel single-phase to single-phase cycloconversion strategies: Mathematical and Simulation studies", *International Journal of Power and Energy System*, vol.27, no.4, pp.414-424, 2007. (ISSN:1078-3466)
24. S Jeevananthan, R Nandhakumar and **P Dananjayan**, "Inverted sine carrier for fundamental fortification in PWM inverters and FPGA based implementations", *Serbian Journal of Electrical Engineering (SJEE)*, vol.4, no.2, 2007. (ISSN:1451-4869)
25. G. Sivaradje and **P. Dananjayan**, "Radio resource management in convergence Technologies" *Encyclopedia of Mobile Computing and commerce*, Idea Group, Inc., pp. 810-815, 2007. (ISBN:978-1-59904-002-8)
26. G. Sivaradje and **P. Dananjayan**, "Convergence Technology for Enabling Technologies" *Encyclopedia of Mobile Computing and commerce*, Idea Group, Inc., pp. 149-153, 2007. (ISBN:978-1-59904-002-8)
27. G. Sivaradje and **P. Dananjayan**, "A spectrally overlaid flexible bandwidth utilization scheme for cellular CDMA systems" *Int. Journal of Ad Hoc and Ubiquitous Computing*, Vol. 2, No.1/2, pp 109-118, 2007. (ISSN: 1743-8225).
28. K.Ayyappan, G.Sivaradje, I.Saravanan and **P.Dananjayan**, "Resource management strategy to support real time video across UMTS and WLAN networks", *Journal of Ubiquitous Computing and Communication* Vol.2, No. 4, 2007. (ISSN: 1994-4608).
29. P. Thirusakthimurugan and **P. Dananjayan**, "A novel robust speed controller scheme for PMBLDC motor", *International Journal on Instrumentation systems and Automation*, ISA Transactions Elsevier,UK, Vol.46, No.4, pp. 471-477, 2007. (DOI:10.1016/j.isatra.2007.03.004)
30. B. Geethalakshmi and **P.Dananjayan**, "Investigation of performance of UPFC without DC link capacitor", *Electric Power Systems Research*, Elsevier, Vol.78, No.4, pp.736-746, April 2008. (DOI:10.1016/j.epr.2007.05.019)
31. P. Thirusakthimurugan and **P. Dananjayan**, "A novel generalized predictive controller for the speed control of PMBLDC motor", *International Journal of Electrical and Power Engineering (IJEPE)*, Vol.2, No.5, pp. 293-299, 2008. (ISSN:1990-7958).
32. P. Sanjeevikumar B. Geethalakshmi, and **P. Dananjayan**, "Fine tuning of cascaded of d-q axis controller for AC-DC-AC converter without DC link capacitor using artificial neural network", *Songklanalarin Journal of Science and Technology*, Vol.30, No.1, pp. 85-92, Jan. – Feb. 2008, (ISSN:0125-3395).
33. B. Geethalakshmi, T. Hajmunnisa and **P. Dananjayan**, "A fuzzy logic controller for enhancing the transient stability of 48-pulse inverter based SSSC", *Journal of Electrical systems, ELEKTRIKA*, UniversitiTeknologi, Malaysia, Vol.10, No.2, pp.53-58, 2008. (ISSN:0128-4428).
34. K.Ayyappan and **P.Dananjayan**, "Propagation model for highway in mobile communication system" *Journal of Ubiquitous Computing and Communication*, Vol.3, No. 4, 2008. (ISSN:1994-4608).

35. N.Kumaratharan, M.Padmavathy and **P.Dananjayan**, "Performance Improvement of MC-CDMA System through D-STBC Site Diversity", Journal of Theoretical and Applied Information Technology, Vol.4, No.11, pp.1075-1082, November 2008. (ISSN:1992-8645).
36. N.Kumaratharan, M.Padmavathy and **P.Dananjayan**, "Performance Improvement of MC-CDMA System through STBC Site Diversity", International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, ISBN: 0974-3588, pp.1-7, Dec 2008. (ISSN:0974-3588).
37. V. Nagarajan and **P. Dananjayan**, "Game theoretic power control approach for MIMO MC-DS/CDMA system", Special Issue on New Technologies, Mobility and Security- UBICC Journal, Vol.3 pp.5-11, 2008. (ISSN:1994-4608).
38. V. Nagarajan and **P. Dananjayan**, "Performance enhancement of MC-DS/CDMA system using chaotic spreading sequence", International Journal of Theoretical and Applied Information Technology, Vol.4, No.10, pp. 995-1001, October 2008. (ISSN:1992-8645).
39. K.Ayyappan and **P.Dananjayan**, "RSS measurement for vertical handoff in heterogeneous network", International Journal of Theoretical and Applied Information Technology, Vol.4, No.10, pp. 989-994, October 2008. (ISSN:1992-8645).
40. B. Geethalakshmi and **P. Dananjayan**, "A combined multipulse – multilevel inverter based STATCOM for improving the voltage profile and transient stability of power system", International Journal of Power Electronics, Vol.1, No.3, pp.267-285, 2009. (ISSN:1756-638X).
41. V. Nagarajan, L. Nithyanandan and **P. Dananjayan**, "A Game Theoretic Approach with Pricing Strategy for Energy Efficient Modulation in MIMO MC-DS-CDMA system", International Journal of Computer Applications in Engineering, Technology and Sciences, Vol.1, No.2, pp.656-659, Sept. 2009. (ISSN:0974-3596).
42. J.Vidhya and **P. Dananjayan**, "Hybrid Clustering Protocol for Energy Efficient Routing in Wireless Sensor Networks", International Journal of Electronics Engineering, Vol.1, No.1, pp.7-12, Jan- June 2009. (ISSN:0973-7383).
43. L. Nithyanandan and **P. Dananjayan**, "Analytical BER Computation for MC-CDMA System with Iterative HIC Receiver", International Journal of Electronics Engineering, Vol.1, No.1, pp.67-73, Jan- June 2009. (ISSN:0973-7383).
44. L. Nithyanandan and **P. Dananjayan**, "Coverage and cost optimization of Uniform and Non uniform mixed sensor networks", International Journal of International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, pp.213-216, July-2009. (ISSN:0974-3588)
45. P.Samundiswary and **P.Dananjayan**, "Performance Evaluation of LEACH Mobile protocol for mobile wireless sensor networks", International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, July-2009.(ISSN:0974-3588)

46. G.Sivaradje and **P.Dananjayan**, “HIP Based Mobility Management for Integrated Networks”, International Journal of Computer applications in Engineering, Technology and Sciences, Vol.1, No.2, pp.566-570. (ISSN:0974-3596)
47. P.Samundiswary and **P.Dananjayan**, “Performance Analysis of Homogeneous and Heterogeneous Sensor Networks”, MASAUM Journal of Computing, Vol.1, No.3, pp. 377-381, October 2009.(ISSN:2076-0833)
48. G.Sivaradje and **P.Dananjayan**, “Performance Comparison of UMTS/WLAN Integrated Architectures with Dynamic Home Agent Assignments”, International Journal of Communication Networks and Information security, Vol.1. No.3, December 2009, pp.73-80.(ISSN:2073-607X)
49. N. Kumaratharan and **P. Dananjayan**, “Performance Improvement in Detection and Estimation of MC-CDMA Systems over MIMO channels”, Elsevier Journal of Computer and Electrical Engineering, Vol.36, No.1, pp.224-233, January 2010, ISSN: 0045-7906, (DOI: 10.1016/j. compeleceng.2009.08.008).
50. N. Kumaratharan, S. Jayapriya and **P. Dananjayan** “Performance Enhancement of MC-CDMA System through STBC based STTC Site Diversity”, International Journal of Computer and Electrical Engineering. Vol.2, No.1, pp.6-11, February 2010. (ISSN:1793-8163).
51. P.Samundiswary and **P.Dananjayan**, “Detection of Sinkhole Attack in Heterogeneous Sensor Networks for Mobile nodes with Mobile sinks”, International Journal of Computer and Electrical Engineering, Vol.2, No.1, pp.127-133, February 2010. (ISSN:1793-8163).
52. L.Nithyanandan, G.Sivarajesh and **P.Dananjayan**, “Modified GPSR Protocol for Wireless Sensor Networks”, International Journal of Computer and Electrical Engineering, Vol.2, No.2, pp.328-332, April 2010. (ISSN:1793-8163).
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54. J.Vidhya, G.Kalpana and **P.Dananjayan**, “Cooperative MIMO MAC Protocol using STTC in Wireless Sensor Networks”, WSEAS TRANSACTION on COMMUNICATIONS, Issue 3, Volume 9, pp.196-205, March 2010. (ISSN: 1109-2742).
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59. J.Vidhya and **P.Dananjayan**, “Analysis of cooperative STBC MIMO transmissions in WSN using threshold based MAC protocol”, International Journal on Computer Applications(0975-8887), Vol.3, No.10, July 2010.
60. R.Valli and **Dr.P.Dananjayan**, “A Non-cooperative game theoretic approach for power control in Virtual MIMO wireless sensor network”, International Journal of UbiComp, vol.1, no.3, pp.44-55, July 2010
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65. P.Mukunthanand **P.Dananjayan**, “Modified PTS with FEC for PAPR reduction in OFDM system”, International Journal on Computer Applications, (0975-8887), December 2010,
66. J.Vidhya and **P.Dananjayan**, “Energy efficient STBC-encoded cooperative MIMO routing scheme for cluster based wireless sensor networks”, International Journal of Communication Networks and Information Security, vol.2, no.3, pp.216-223, December 2010, ISSN online: 2073-607X.

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80. **P. Raja**, P. Dananjayan “Game Theory based Energy Efficient Hybrid MAC Protocol for Lifetime Enhancement of Wireless Sensor Network”, Iranian Journal of Electrical & Electronic Engineering (IJEED) Vol. 10, No. 1, pp 10-17, March 2014

#### NATIONAL JOURNALS

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3. G. Sivaradje and **P. Dananjayan** “Address Routing and Delivery Time Analysis of Satellite Networks for PCS”, IETE Special issue of Microwave Communication Systems, Vol. 18, Nos. 2 & 3, pp. 211 – 218, March - June 2001.
4. G. Sivaradje and **P. Dananjayan**, “Interactive Computer Mediated Communications for Distance Educations and its limitations”, IETE Technical Review – Special issue in “IT Enabled Services”, Vol. 18, No. 4, pp. 277 – 282, July – August 2001.
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