

<b>Name</b>	<b>Prof. A.P. MITTAL</b>
<b>Father's Name</b>	Late Sh. Daya Prakash Mittal
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<b>Technical Qualifications</b>	B.E. (Hons) Electrical Engg., M.M.M. Engg. College, Gorakhpur (UP) – 1978 M.E. (Power Apparatus & Electric Drives), University of Roorkee – 1980 Ph.D. (Power Electronics), IIT Delhi – 1991
<b>Professional Experience</b>	IIT Delhi as Research Associate, Aug. 1980 to April 1985  REC Kurukshetra, Lecturer, April 1985 to June 1987.  REC Hamirpur, Assistant Professor, July 1987 to Sept. 1989.  REC Kurukshetra, Assistant Professor, Sept. 1989 to July 1997.  CRSCE Murthal, Professor & Head*, July 1997 to June 2001.  NSIT Dwarka, New Delhi, Professor & Head* , June 2001 onward.  * Worked as Professor & Head of Electronics and Electrical Engg. Department for almost 4 years, <b>undertaken the additional charge of Computer Science and Engg. for about one year.</b>  * Worked as Professor & Head of Instrumentation and Control Engg. Division from June 2001 to July 2003, Worked as Head of Manufacturing Process and Automation Engg. Division from August'2003 to October' 2004. Presently working as Head of Instrumentation and Control Engineering Division, Manufacturing Processes and Automation Engg. Division & Entrepreneurship Development Cell. In addition working as <b>Dean of Students Welfare &amp; Dean Industrial Research &amp; Development.</b>

	<p><i>Three research scholars have completed Ph.D. Presently Six research scholars are working.</i></p> <ul style="list-style-type: none"> <li>• Organised an All India Seminar on Trends in Technical Education on I.S.T.E. Day (May 21, 2002)</li> <li>• Organised an All India Seminar on “Electronics – Industrial Applications” held on April 23, 1995 at R.E.C. Kurukshetra.</li> <li>• Worked as Co-ordinator of Energy Centre at R.E.C. Hamirpur.</li> <li>• <b>Fellow Institution of Engineers (INDIA)</b></li> </ul> <p><b>Life member : System Society of India Indian Society for Technical Education (ISTE)</b></p> <p><b>Sr. Member : IEEE</b> Working as Secretary I.S.T.E. Delhi Section since January 2003. Worked as Chairman I.S.T.E.-N.S.I.T. Chapter since its inception in May 2002 to May 2004. Worked as Chairman I.S.T.E. Chapter at C.R. State College of Engg. Murthal from July 1999 to June 2001.</p>
<p><b>Member Expert Committee</b></p>	<ul style="list-style-type: none"> <li>• Worked as member of NBA expert committee for accreditation of about Fourty Institutes from Nov. 2003 onward.</li> <li>• Worked as member of expert committee for the Department of Technical Education, Govt. of Haryana for allotting the courses of <b>Computer Science to different technical Institutions during Nov-Dec. 1998.</b></li> <li>• Worked as Co-Chairman Lateral Entry Entrance Test (LEET-99) at CRSCE Murthal.</li> <li>• Worked as member of Expert Committee for University Grants Commission.</li> <li>• Worked as Chairman B.E. admission committee for DCE/ NSIT for 2005 &amp; 2006.</li> </ul>

**List of Publications :**  
**Journals**

1. A.P. Mittal and J.K. Chatterjee. "A Simple Method of Analysis of Circulating Current in a Dual-converter using Offset Voltage Control". Journal of IE (I),EE Div., April 1984.
2. D.K. Jain, A.P. Mittal & B. Singh. "An Efficient Iterative Technique for the Analysis of Self-excited Induction Generator." Journal of IE (I), EE Div., vol 79, Feb. 1999,p.p. 172-177.
3. J.S. Saini, M. Gopal & A.P. Mittal, "Evolving Optimal Fuzzy Logic Controllers by Genetic Algorithms" , Journal of Research, IETE, Vol.50, May/June 2004.
4. J.S. Saini, M. Gopal, A.P. Mittal, "Genetic Algorithm Based PID Tuner", Journal of IE (I), EE Divn., vol. 85, Mar. 2005, pp.216-221.
5. A. Adya, B. Singh, A. P. Mittal and J.R.P Gupta, "DSTATCOM for power quality improvement in four-wire electric distribution systems." International Journal of Global Energy Issues, Interscience Publications, 2005.
6. A. Adya, B. Singh, A. P. Mittal and J.R.P Gupta, "MATLAB based modeling of Distribution STATCOM applied to isolated power system", International Journal of Energy Technology and Policy, Inderscience Publications, Vol. 4, Nos. 3/4, 2006, pp. 274-293.
7. A. Adya, B. Singh, A. P. Mittal and J.R.P Gupta, "Modelling of DSTATCOM for distribution system", International Journal of Energy Technology and Policy (Special Issue on Impact Assessment and Study of Harmonics in Utility Networks), Inderscience Publications, Vol. 4, Issue 1/2, 2006, pp. 142-160.
8. Bhim Singh, Pradeep Jain, A.P.Mittal, and J.R.P.Gupta, "EV Propulsion System with Fuzzy Logic Based DTC IPMSM Drive", Accepted for *International Journal of Electric and Hybrid Vehicles*, Inderscience Publishers
9. Bhim Singh, Pradeep Jain, A.P.Mittal, and J.R.P.Gupta, "Torque Ripples Minimization of DTC IPMSM Drive for EV Propulsion System Using Neural Network", Accepted for *Journal of Power Electronics, Korea*
10. Vijayant Agarwal, A.P. Mittal, B.C. Nakara "Some Issues of the International Paradigm" accepted in national ISTE conference on Electronics, Communication, Control, Computer Engineering, and Power-Energy
11. Vijayant Agarwal, A.P. Mittal, B.C. Nakara "Design and analysis of Clustering Algorithm for a Redundant manipulator" accepted for publication in The International Journal of Computers, Information Technology, and Engineering (IJCITAE)
12. Prerna Gaur, Bhim Singh, A.P. Mittal, "Steady State and Dynamic Response of State Space Observer Based PMSM Drive with Different Controller" Communicated to the Journal on Power Electronics.

**Conferences**

1. J.K. Chatterjee and A.P. Mittal. "Operation of VSCF System with Modified control technique "IEEE Conference Proc. "Circuits and Systems". New port Beach USA, May 24, 1983.
2. J.K. Chatterjee and A.P. Mittal, "A novel methods for reduction of reactor weight in dual converter". IEEE conference Proceedings, Industry Application, Mexico City, October 1983.
3. J.K. Chatterjee, B.M. Bird & A.P. Mittal. "Amplitude modulation in VSCF generation" IEEE Proceedings, International Conference on Computers, Systems and signal Processing, Bangalore, India, December 10-12-1984.
4. A.P. Mittal and J.K. Chatterjee, "An efficient microprocessor based trigger method for cycloconverter operating in constant frequency generation mode" IEEE. Proceedings, International Conference on computers, Systems and Signal Processing, Bangalore, India, December 10-12-1984.
5. A.P. Mittal, R.S. Bhatia and D.K. Jain, "Loading of three phase induction generator during single phase condition", Workshop cum seminar on wind energy and its potential and utilization, IE (I), Chandigarh, Sept. 1993.
6. D.K. Jain and A.P. Mittal, "Hybrid system necessity of renewable sources of energy". National seminar on Energy Management, MNREC Allah bad. March 2-3, 1995.
7. D.K. Jain, A.P. Mittal, M.K. Soni and B. Singh "Reactive power compensator for three phase induction generator-a state of art". Proceeding of national seminar on Electronics-Industrial Applications, IE (I), REC Kurukshetra, April23, 1995.
8. N.C. Verma, D.K. Jain, A.P. Mittal, "AC-DC Converter to improve p.f. and harmonics in line current". Proceedings of national seminar on Electronics-Industrial Application IE (I), REC Kurukshetra, April 23, 1995.
9. D.K. Jain, A.P. Mittal and B. Singh, "Advanced controlled series compensated self excited induction generator", Proceedings of IEEE Conference on Power Electronics, Drives and Energy System, New Delhi, India, Jan 8-11, 1996.
10. M.K. Singh, A.P. Mittal and J.S. Lather, "Neural network based control of Electrical Drives". National seminar on "efficient use of Electric Motor, Generator and Drives for Industries and Utilities for purpose of achieving saving in Energy". IE (I) CRSCE Murthal, Feb. 16, 1997.
11. D.K. Jain, A.P. Mittal and Dr. Bhim Singh, "Transient analysis of SEIG equipped with Electronic Load Controller" Proceedings of NSC'98 Calicut, Nov. 98.

12. D.K. Jain, A.P. Mittal and Dr. Bhim Singh, "A New Iterative Technique for the Steady state Analysis of Three Phase SEIG." Proceedings of NPSC, 98, Calicut, Dec.' 98.
13. J.S. Saini, M. Gopal and A.P. Mittal, "Analytical Structures for fuzzy Controllers" Proceedings of the International Conference on Control, Instrumentation and Information Communication, Kolkatta, Dec.' 2001.
14. J.S. Saini, M. Gopal, and A.P. Mittal, "Chaotic Dynamics in Fuzzy Logic Controllers," Proceeding of the International Conference on Quality, Reliability and Control (ICQRC-2001), I.I.T., Mumbai, Dec. 26-28, 2001.
15. J.S. Saini, M. Gopal, and A.P. Mittal, "A Robust Structure for Self-tuning FLC Employing State Feedback," Proceeding of the International Conference on Quality, Reliability and Control (ICQRC-2001), I.I.T., Mumbai, Dec. 26-28, 2001.
16. D.K. Jain, A.P. Mittal and Bhim Singh, "Analysis of STATCON based Voltage Controller for three phase SEIG" Proceedings of CERA' 2001, IIT Roorkee, Feb.-2002.
17. Dr. A. P. Mittal, "Evolution & Applications of Genetic Algorithms – State of the Art", Proceedings of 2<sup>nd</sup> International Conference on Quality, Reliability and Information technology (Trends & Future Directions), INSA, New Delhi, 18 – 20 Dec. 2003.
18. A.Adya and A.P.Mittal," Investigations on STATCOM for Medium Power Control Applications", Published in IEEE sponsored National Seminar on Power and Energy for Sustainable Growth ,Feb 2003 ,Murthal,India ,pp 76-81.
19. B. Singh, A. Adya, A. P.Mittal and J.R.P Gupta, " Mathematical modeling and Analysis of DSTATCOM for large power system", Published in National Conference on Mathematical Modeling and Analysis (NCMMA 2004),BITS Pilani, India, ( 8-9 Oct 2004) pp 41-42
20. J.R.P Gupta, A. Adya ,B. Singh, and A.P. Mittal," DSTATCOM (Distribution STATCOM) Application for Power Quality Improvement In Distribution System" , Published in 6<sup>th</sup> International Conference on Power Electronics (ICPE-04), Busan, Korea (19-21 Oct 2004)
21. B. Singh,A. Adya, A. P.Mittal and J.R.P Gupta, " Application of STATCOM for Power Quality Improvement in Distribution system", Published in International Conference on Petroleum and Chemical Industry India (PCIC-IAS) 2004,India ( 9-10 Nov 2004), pp 249-255.
22. A. Adya, B. Singh, J. R. P Gupta and A. P. Mittal," Application of DSTATCOM for Isolated Systems", Published in IEEE International Conference on Analog and Digital Techniques in Electrical Engineering,TENCON 2004 ,Thailand ( 21-24 Nov 2004)

23. B. Singh, A. Adya, A. P. Mittal and J.R.P Gupta, "Performance of DSTATCOM with non-linear loads for power quality improvement", Published in 13<sup>th</sup> National Power System Conference, Chennai, India, ( 27-30 Dec 2004) pp 773-778.
24. J.R.P Gupta, A. Adya ,B. Singh, and A.P. Mittal," DSTATCOM (Distribution STATCOM) Application for Power Quality Improvement In Distribution System" , Published in 6<sup>th</sup> International Conference on Power Electronics (ICPE-04), Busan, Korea (19-21 Oct 2004).
25. A. Adya, B. Singh, A. P. Mittal and J.R.P Gupta, "Performance of DSTATCOM for isolated small rating alternator feeding non-linear loads", IEEE International Conference on Computer Applications in Electrical Engineering (CERA) 2005, IIT Roorkee, (28 Sep-10 Oct 2005), pp. 211-216.
26. Agarwal Vijyant, Mittal A.P., Nakra B.C. "A study of fuzzy logic based inverse kinematics solution", in the proceeding of CERA 05 (International Conference in Computer Applications in Electrical Engineering Recent Advances), organized by Department of Electrical Engineering, Indian Institute of Technology Roorkee. Sept. 28- Oct. 1, 2005.
27. A. Adya, B. Singh, A. P. Mittal and J.R.P Gupta, "Modeling and Control of DSTATCOM for three-phase, four-wire distribution systems," 14<sup>th</sup> Industry Applications Conference (IEEE-IAS) Annual meeting, Vol. 4, 2-6 Oct 2005, pp. 2428-2434.
28. A. Adya, B. Singh, A. P. Mittal and J.R.P Gupta, "Power Quality Enhancement With DSTATCOM for small isolated generator feeding distribution system," IEEE International Conference PEDS 2005, Malaysia, 28 Nov.-1<sup>st</sup> Dec. 2005, pp. 274-279.
29. Agarwal Vijyant, Mittal A.P., "Soft Computing Paradigms for Learning Fuzzy Robotics Controllers", ICCS 2005 (International Conference on Cognitive Systems) by NIIT, Centre for Research in Cognitive Systems, New Delhi, 14-15 December, 2005.
30. Adya, B. Singh, A. P. Mittal and J.R.P Gupta, "DSTATCOM Applications to Dispersed Generation," National Conference on Energy, Communication and Computer Systems, MAIT, New Delhi, 2006, pp. 9-14.
31. Agarwal Vijyant, Mittal A.P., "An ANFIS based system for the LSPB trajectory of a redundant planar manipulator", IASTED (The International Association of Science and Technology for Development, Canada) International Conference on Modelling, Identification, and Control (MIC 2006), February 06 to February 08, 2006, at Lanzarote, Spain.
32. Bhim Singh, Pradeep Jain, A.P.Mittal, and J.R.P.Gupta, "Direct Torque Control: A Practical Approach to Electric Vehicle", 2006 IEEE Power India Conference 10-12 April, 2006

	<p>33. Bhim Singh, Pradeep Jain, A.P.Mittal, and J.R.P.Gupta, "Speed Sensorless Electric Vehicle Propulsion system Using DTC IM Drive", IEEE-India International Conference on Power Electronics, 19-21 Dec,2006</p> <p>34. Bhim Singh, Pradeep Jain, A.P.Mittal, and J.R.P.Gupta, "Neural Network Based DTC IM Drive for Electric Vehicle Propulsion System", 2006 IEEE Conference Electric and Hybrid Vehicle, 18-20 Dec 2006.</p> <p>35. Vineet Kumar, A.P.Mittal and Ranjit Singh "Liquid-Level Process Control using Fuzzy PI Plus Fuzzy D Controller in Cascade Loop" (Recent Advancements and Applications of Computer in Electrical Engineering) on March-24-25,2007</p> <p>36. Prof.A.P.Mittal, Prof. Bhim Singh, Pradeep Jain, &amp; Prof. J.R.P. Gupta "Direct Torque Control IM Drive for Electric Vehicle Propulsion system Using Fuzzy Logic (Recent Advancements and Applications of Computer in Electrical Engineering) on March-24-25,2007</p> <p>37. Vijayant Agarwal, A.P. Mittal, B.C. Nakara "Some Issues of the Informational Paradigm" accepted in national ISTE conference on Electronics, Communication, Control, Computer Engineering and Power-Energy.</p> <p>38. Perna Gaur, Dipti Mohan, A.P. Mittal and Bhim Singh, 'Flux observer based Sensorless Permanent Magnet Motor Drive' published in the proceedings of IEEE National Conference on Applications of Intelligent Systems held in March 13-15, 2008 at Hindu College of Engineering Sonapat.</p>
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