

## **Journal Publications / Papers Presented : Dr. Radhakrishna S. Aithal**

**Journals:-**                      **International : 11**                      **National : 06**  
**Conferences:-**                **International : 15**                      **National : 17**

1. Radhakrishna S. Aithal, B.Ghosh & Saswathi Mazumdar “Optimal Matching of Optical Designs of Lamp & Reflector for Energy Efficient Industrial Lighting”, Journal of Optics, Vol 29, No: 2, Optical Society of India, Calcutta, Jun 2000, PP 63-72.
2. Radhakrishna S. Aithal, B.Ghosh & Saswathi Mazumdar “Demand-side Management Programmes (DSM) on Lighting : An Effective Means Towards Energy Saving in Indian Context – A Review”, Journal of Institution of Engineers (India), Electrical Engg division, Vol 80, Feb 2000, PP 166-169.
3. Radhakrishna S. Aithal “Comparative Study and Innovative Approach in Improving Efficiency of Medium-bay Industrial Lighting”, Journal of Institution of Engineers (India), Electrical Engg division, Vol 80, Aug 1999, PP 48-52.
4. Ciji Pearl Kurian, Radhakrishna S. Aithal & Sheryl Grace Colaco, “Performance Evaluation of Lamp Luminaire Combination - A Software approach using MATLAB”, Journal of Institution of Engineers (India), Electrical Engg division, Vol. 85, Sept. 2004, pp 98-101.
5. Chandrashekara Adiga S, Radhakrishna S. Aithal & R.S. Shanbhag, “Application of Neural Networks in Lighting System Design – Evaluation of Utilization Factor”, International Journal of Engineering Intelligent Systems, U.K., Vol. 12, No.3, September 2004, pp 145-149.
6. C P Kurian, S. Kuriachan, Jayadev Bhat & Radhakrishna S Aithal, “An Adaptive Neuro-fuzzy Model for the Prediction and Control of Light in Integrated Lighting Schemes”, International Journal of Lighting Research & Technology, Vol. 37, No. 04, 2005, pp343-352.
7. Ciji Pearl Kurian, V.I.George, Jayadev Bhat & Radhakrishna S Aithal, “ANFIS Model for the Time Series Prediction of Interior Daylight Illuminance”, ICGST International Journal on Artificial Intelligence and Machine Learning (AIML), Vol. 6, Issue 3, September 2006, pp35-40.
8. P G Kini, R C Bansal and R S Aithal, “Performance Analysis of Centrifugal Pumps subjected to Voltage Variation & Unbalance, IEEE Transactions on Industrial Electronics, Vol.55, No.2, February 2008, pp562-569, ISSN : 0278-0046
9. P G Kini, R C Bansal and R S Aithal, “Impact of Voltage Variation on Three-Phase Induction Motor Performance”, The South Pacific Journal of Natural Sciences(SPJNS), Vol. 24, ISSN:1013-9877(print) & 1726-0787(on-line), October 2006, pp45-50
10. P G Kini, R C Bansal and R S Aithal, “A Novel Approach Towards Interpretation and Application of Voltage Unbalance Factor” IEEE Transactions on Industrial Electronics, Vol.54, No.4, August2007, pp2315-2322, ISSN : 0278-0046

11. H. Ravishankar Kamath, R S Aithal & P K Singh, "Modelling of Photovoltaic Array and Maximum Power Point Tracker using ANN", International Journal of Electric Systems, Vol. 4, Issue 3, Sept. 2008, ISSN 1112-5209
12. C P Kurian, R S Aithal , J Bhat & V I George, "Robust control and optimization of energy consumption in daylight-artificial light integrated schemes", International journal of Lighting Research & Technology, Volume 40, Number 1, April 2008, pp 7-24, ISSN 1477-1535.
13. C S Adiga & R S Aithal, "Evaluation of Coefficient of Utilization in Interior Lighting Design from the Photometric Data of Luminaire using Artificial Neural Network", Journal of Institution of Engineers (India), Electrical Engg division, Vol. 89, December 2008, pp 1-5
14. C P Kurian, V I George, R S Aithal & J Bhat, "Fuzzy Logic based Window Blind Controller maximizing Visual Comfort, Thermal Comfort and Energy Conservation suitable for Tropical Climate", Journal of Institution of Engineers (India) - AR, Vol. 89, April 2008, pp 14-22.
15. B K Singh, R S Aithal & D N Gaonkar, "Development of Solid Oxide Fuel Cell Model", International Journal of Applied Engineering Research (IJAER), Vol. 4, No. 8, 2009, pp 1543-1556
16. B K Singh, D N Gaonkar, R S Aithal & Govind Sharma "Modeling and Performance Analysis of Solid Oxide Fuel Cell Based Distributed Generation System", International Energy Journal (IEJ), Volume 12, Issue 2, June 2011, pp 123-134
17. Savitha G Kini, R S Aithal & Arpit Gandhi, "Prototype Development of Voltage Based Solar Tracker Algorithm", International Journal of Science & Engineering Investigations, Vol.1, Issue 10, November 2012, pp 63-65, ISSN: 2251-8843
18. R.S. Shanbhag & Radhakrishna S. Aithal "Energy Conservation in Lighting Design – A Case Study", National Seminar on "Energy for Better Tomorrow", KITS Ramtek, Nagpur - 441106, Dec 26-28, 1997.
19. Radhakrishna S. Aithal & B.Ghosh "Lighting Energy Management : A Case Study of a Street Lighting Installation", National Seminar on "Recent Trends in Energy Efficient Lighting Systems", SATI Vidisha - 464001, Feb 05 – 06, 1999.
20. Radhakrishna S. Aithal, B.Ghosh, Saswathi Mazumdar & K.V. Adiga, "Toward more Authentic Approach for Energy Savings in Roadway Lighting", International Conference on Lighting Technology – Prakash 99, ISLE New Delhi, Oct 29 – 31, 1999.
21. Radhakrishna S. Aithal, B.Ghosh & Saswathi Mazumdar "Optimal Matching of Optical Designs of Lamp and Reflector for Energy Efficient Industrial Lighting", XXVI National Symposium of The Optical Society of India on "Optics and Opto-Electronics", REC Warangal-506004, Feb 04 – 06, 2000.

22. Radhakrishna S. Aithal & B.Ghosh, "Remote-Source Lighting : A Promising Technology for the New Millennium", Seventh State Science & Technology Congress, Calcutta - 700032, Feb 28 – Mar 1, 2000.
23. Chandrashekhara S. Adiga, Radhakrishna S. Aithal & R.S. Shanbhag "Energy Conservation in Lighting Systems using Neuro-Expert System", National Seminar, "ALCTEC", MIT Manipal – 576 119, Mar 09 - 10, 2001.
24. Radhakrishna S. Aithal, "Led by L.E.D.", National Seminar, "ALCTEC", MIT Manipal – 576 119, Mar 09 - 10, 2001
25. Ciji Pearl Kurian, Radhakrishna S. Aithal & Jayadev Bhat, "MATLAB's Power for Interior Lighting Design", International Conference on Lighting, Lux Pacifica-2002, ISLE, New Delhi, September 9-11, 2002.
26. Savitha G. Kini, Radhakrishna S. Aithal & B. Ghosh, "Photovoltaics for Buildings : Future Solution to Energy Crunch – A Review", International Conference on Lighting, Lux Pacifica-2002, ISLE, New Delhi, Sept 09 - 11, 2002
27. Chandrashekhara S. Adiga, Radhakrishna S. Aithal & R.S. Shanbhag, "Application of Neuro-Expert System in Lighting System Design", International Conference on Lighting, Lux Pacifica - 2002, ISLE, New Delhi, Sept 09-11, 2002.
28. Ciji Pearl Kurian & Radhakrishna S. Aithal, "Daylight prediction & Interior Illuminance Pattern", Proceedings of the International Conference on New Millennium – Alternative energy Solutions for Sustainable Development, PSG College of Technology, Coimbatore – 641 004, Jan 17 – 19, 2003
29. Chandrashekhara S. Adiga, Radhakrishna S. Aithal & R.S. Shanbhag, "Application of Neural Networks for energy conservation in lighting systems", Proceedings of the National Conference on "Power Conversion And Industrial Control" PCIC 2003, N.S.S College of Engineering, Palakkad- 678 008, Jan 03–04, 2003, P 26-31.
30. Ciji Pearl Kurian, Radhakrishna S. Aithal & Jayadev Bhat, "Interactive Daylight : Artificial Light Integrated Schemes", National Conference on "Recent Trends in Power Management", All India Jamia Electrical Engg., New Delhi, August 16-17, 2003, pp 217-222.
31. H. Ravishankar Kamath, Radhakrishna S. Aithal, P.N. Hrishikesh & P.N. Sreedhar, "Power Generation Scheme for Coastal – Rural Areas : Case study of Fisheries Industries", International Conference on Energy & Environmental Technologies, Malaviya National Institute of Tech., Jaipur, October 8-10, 2003, pp 88-94.
32. P.N. Hrishikesh, H. Ravishankar Kamath and R.S. Aithal, "Advanced Control Unit for Automation of Solar Powered Water Pump", International Conference, RETRUD-03, Kathmandu, Nepal, October 12-14, 2003, pp. 127-131.
33. H. Ravishankar Kamath, P.N. Sreedhar, R.S. Aithal & P.N. Hrishikesh, "Digital Solar Tracker Fabrication & Design applicable to rural area / Performance Evaluation", International Conference RETRUD-03, Kathmandu, Nepal, October 12-14, 2003, pp. 264-267.
34. Ciji Pearl Kurian & Dr. Radhakrishna S. Aithal, "Advanced Lighting Simulation Tools : A Comparative Analysis" International Conference on Lighting – Vision 2004, ISLE Bangalore, November 21-22, 2003.

35. C.S. Adiga, Dr. R.S. Aithal & Dr. R.S. Shanbhag, "Selection of suitable number & alignment of lamps in Interior Lighting Design using Expert System", International Conference on Lighting-Vision 2004, ISLE, Bangalore, November 21-22, 2003
36. B.Ghosh, R. S. Aithal & S. G. Kini, "Efficiency Characteristics of a BIPV System in Hot & Humid Climatic Conditions", 19<sup>th</sup> European Photovoltaic Solar Energy Conference, Paris, France, 7-11 June 2004.
37. Radhakrishna S. Aithal, "Role of MIT, Manipal towards effective Industry-Institute Interaction in Lighting", National, Industry-Institute Interactive Meet, IIM, MIT, Manipal, August 29-30, 2004.
38. P G Kini, R C Bansal and R S Aithal, "Performance Variation of Three Phase Induction Motor due to Voltage Variation and Unbalance", National Conference on Control, Instrumentation and Systems, CISCON-2006, MIT Manipal, November 2006
39. P G Kini, R C Bansal and R S Aithal, "Effect of Sequence Components on Induction Motor Performance", National Conference on Control, Instrumentation and Systems, CISCON-2006, MIT Manipal, November 2006
40. P G Kini, R C Bansal and R S Aithal, "A Brief Overview of Power Quality with Special Focus on Voltage Variation and Unbalance", National Conference on Advanced Energy Conversion Technologies, AECT-2007, MIT Manipal, March 23-24, 2007
41. P G Kini, R C Bansal and R S Aithal, "Life Cycle Cost Considerations for industrial Utilities", National Conference on Advanced Energy Conversion Technologies, AECT-2007, MIT Manipal, March 23-24, 2007
42. H. Ravishankar Kamath, R S Aithal, P K Singh et.al., "Modelling of Photovoltaic Array and Maximum Power Point Tracker using ANN", International Conference on Electrical Engineering Design and Technologies, ICEEDT, Hammamet. Tunisia, Nov. 5-6, 2007
43. Radhakrishna S. Aithal, "Growing Industry-Academia Interaction : MIT Manipal's Experience in Lighting Education", 37<sup>th</sup> Annual ISTE Convention & National Seminar on "Excellence in Technical Education through Innovation", MIT Manipal, December 17 – 19, 2007
44. H Ravishankar Kamath & R S Aithal, " Photovoltaic Source Modeling and MPP Tracking", National Conference on Energy Management in changing Business Scenario, BITS Pilani, October 8-9, 2005
45. H Ravishankar Kamath, R S Aithal et.al., "Modeling of Photovoltaic Array and Maximum Power Point Tracker using Back Propagation neural Network", XXXI National Systems Conference, MIT Manipal, December 14-15, 2007.
46. Radhakrishna S. Aithal, Chandrasekhara S. Adiga et.al., "Impact of self-sustainable rural household lighting – case study of a typical Indian village", 11<sup>th</sup> European Lighting Conference LUX EUROPA 2009, Istanbul, Turkey, 9-11 September 2009

47. B K Singh, D N Gaonkar & R S Aithal, “Solid Oxide Fuel Cell Based Distributed Generation : A Comprehensive Review”, Proceedings of International Conference on Advances in Energy Conversion Technologies, MIT, Manipal, January 2010
48. Radhakrishna S Aithal, “Socio-economic Development through Self-sustainable, Renewable Energy Scheme in Rural Area”, 17<sup>th</sup> National Power Systems Conference, NPSC-2012, Institute of Technology, Banaras Hindu University, Varanasi, December 12-14, 2012
49. Radhakrishna S Aithal, “Socio-economic Development through Self-sustainable, Renewable Energy Schemes – Case Study of A Typical Indian Village”, Minamata International Symposium on Environment & Energy Technology 2013 (MISSION2013), Kumamoto University, Japan, December 04-06, 2013