

M. RAJKUMAR

Associate Professor

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Academic Background: **B.E.** (Electrical & Electronics Engineering), Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, 1999
M.E. (Power System Engineering), Anna University, Chennai, 2004
Ph.D. Thesis submitted in Kalasalingam University, Krishnankoil, Tamilnadu

Areas of interest: Electrical Machines, Power system, Evolutionary Algorithms

Subjects handled: Circuit theory, Electrical Machines-I & II, Control system, Power plant Engineering, Protection & Switchgear, Power system analysis, Electromagnetic theory, Power system operation & control, Special Electrical Machines

Software Proficiency: MATLAB

Experience:

Academics: (13 Years & 1 Month)

January 2010 to
Till date **Associate Professor**, Department of Electrical & Electronics Engineering, National College of Engineering, Tirunelveli.

Other responsibilities:

- Training & Placement Officer
- IETNCE student chapter-Faculty Advisor

January 2007 to
December 2009 **Assistant Professor & Head**, Department of Electrical & Electronics Engineering, Einstein College of Engineering, Tirunelveli.

February 2004 to
January 2007 **Assistant Professor & Head**, Department of Electrical & Electronics Engineering, FX Engineering College, Tirunelveli

July 2001 to
September 2002 **Lecturer**, Department of Electrical & Electronics Engineering, Arulmigu Kalasalingam College of Engineering, Krishnankoil, Srivilliputhur.

November 1999 to
July 2001 **Lecturer**, Department of Electrical & Electronics Engineering, SCAD Polytechnic, Cheranmahadevi, Tirunelveli.

Professional Association Life Member in ISTE

Activities Member in IET

Publications:

International Journals/

Conferences

- **M. Rajkumar**, K. Mahadevan, S. Kannan and S. Baskar, "NSGA-II Technique for Multi-objective generation dispatch of thermal generators with non smooth fuel cost functions", J Electr Eng Technol, Vol. 9, No. 2, pp. 423-432, 2014.
 - **M. Rajkumar**, K. Mahadevan, S. Kannan and S. Baskar, " Combined economic and emission dispatch with valve-point loading of thermal generators using modified NSGA-II", J Electr Eng Technol, Vol. 8, No. 3, pp. 490-498, 2013.
 - **M. Rajkumar**, K. Mahadevan, S. Kannan and S. Baskar, "Environmental and economic power dispatch of thermal generators using modified NSGA-II algorithm", Int. Trans. Electr. Energ. Syst. DOI: 10.1002/etep.1918.
 - M. Rajkumar, K. Mahadevan and S. Ramesh, "**Application of NSGA-II to combined economic and emission dispatch problem** ", International conference on ICEET -2010, at Noorul Islam University, March 2010
 - M. Rajkumar, K. Mahadevan, S.Kannan and S. Ramesh," **A Nondominated Sorting Genetic Algorithm-II technique for environmental/ economic power dispatch**", IEEE International conference on ICCCT-2010 at Syed Ammal Engineering college, Oct 2010
 - M. Rajkumar, K. Mahadevan, S.Kannan and S. Ramesh," **Comparison and application of NSGA-II to combined economic emission dispatch with non smooth fuel cost and emission level functions** ",International conference on ICPCES – 2010 at College of Engineering, Guindy campus, Anna University, Chennai, Dec. 2010
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National Journals/**Conferences**

- M. Rajkumar and K. Mahadevan “ **Evolutionary Programming Solution for economic dispatch of units with ramp rate limits**”, a National Level Conference on Application of Emerging technologies at Adhiyamman College of Engineering, Hosur, Tamilnadu, on 29th March 2004.
- M.Rajkumar and P.Subburaj, “**Evolutionary Programming Solution for economic dispatch with valve-point loading**”, a National Level Conference on “Emerging trends in electric and power drives” at Government College of Engineering, Tirunelveli, Tamil Nadu, on April 20, 2005.

Conferences/Seminars/**Workshops participated**

- One day workshop on “Genetic Algorithm for Power system Optimisation”, organized by department of EEE, Infant Jesus College of Engineering, Tirunelveli, September, 2008.
 - Six days workshop on “Multi-objective Evolutionary Optimization Algorithms”, organized by department of EEE, Thiagarajar College of Engineering, Madurai, June 2009.
 - One day workshop on “Hall mark of Research methods”, organized by department of EEE, EINSTEIN College of Engineering, Tirunelveli, August 2009.
 - One day workshop on “Research & Development”, Kalasalingam University, Srivilliputhur, December 2011
 - 5 days “ Wipro Mission 10-X Faculty Empowerment program”, NCE, February 2012
 - One day workshop on “NPTEL”, S.T. Hindu College, Nagercoil, March 2012
 - ISTE sponsored One day seminar on Evolutionary Computation, NCE, March 2012
 - ISTE sponsored 10 days workshop on “Research Methodologies”, NCE July 2012
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Events Organized/**Conducted**

- IETNCE student chapter, One day workshop on "Communication & Soft skills", August,2011
 - IETNCE Student chapter, One day workshop on "Recent trends in Cloud computing", Decemeber, 2011
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