

Dr. Abraham George

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EDUCATION

- **PhD in Power System Optimization** from Dr. M.G.R University, Chennai, India. Completed in 2012.

Thesis : Multi-objective, short-term hydrothermal scheduling based on traditional and heuristic search methods

Innovations : Genetic generation and modification of weight vectors, novel crossover method for modifying weight vectors, a fuel-constrained thermal unit, a new random search method for locating the optimum, search space reduction technique in genetic algorithm to accelerate search

- **M.Sc(Engg.) in Electrical Power System** from University of Calicut, Kerala, India. Completed in 1985.

Thesis: Computer Program based on Fast Decoupled Load Flow

Developed a computer program in FORTRAN IV and tested IEEE 14 bus system.

Innovations: Tested the effect of high R/X ratio on convergence. Incorporated Sparsity programming and ordered elimination to reduce memory requirements. Incorporated a Sensitivity Factor to correct Q-limit violation at P-V buses.

- **B.Sc(Engg.) in Electrical Engineering** from University of Calicut, Kerala, India. Completed in 1979.

Project Work : Illumination of College Campus .

Work included illuminating the roads and buildings in the college premises. Estimated the total cost for illuminating the campus which included the cost of R.C.C poles, All aluminium conductors, insulators, earthing sets, stay sets, lamp-reflector sets, transportation, labour etc.

- **Completed Post Graduate Diploma in Systems Management at N.I.I.T, Bangalore in 1986.**

The course covered the topics Computer Concepts, Structured COBOL, Database Management, System Analysis & Design and Project Management.

Using Windows, MATLAB, PSpice, MS Office etc. for day-to-day activities.

PROFESSIONAL EXPERIENCE

More than 30 years of experience in teaching

AREAS OF INTEREST

Power system Optimization, Load Flow Studies and other simulation studies in Power System.

PUBLICATIONS

1. "Emission constrained thermal dispatch and hydrothermal scheduling based on Genetic algorithm: search space reduction technique", 18th Annual Symposium, IEEE, Bangalore Section, 29 Aug. 2009.
2. "Short term hydrothermal scheduling based on multi-objective Genetic Algorithm", International Journal of Electrical Engineering, ISSN 0974-2158 Volume 3, Number 1 (2010), pp. 13–26, © International Research Publication House, New Delhi.
3. "Multi-objective hydrothermal scheduling based on weighting method with genetic generation/modification of weight vectors", International Journal of Power and Electrical Engineering, Medwell Journals. (Accepted for publication).
4. "Multi-objective, short-term hydrothermal scheduling based on two novel search techniques", International Journal of Engineering Science and Technology, ISSN 0975-5462, Vol. 2(12), 2010, 7021-7034.
5. "A simple algorithm for multi-objective, short-term hydrothermal scheduling", Australian Journal of Electrical & Electronics, Vol. 9, 4, 2012.

PROFESSIONAL MEMBERSHIPS

IEEE Member: 90146967

ISTE Member: LM 90903

PERSONAL DETAILS

Name	Dr. Abraham George
Date Of Birth	25 May 1957
Gender	Male
Nationality	Indian
Father's Name	M George
Languages Known	English, Hindi, Malayalam
Permanent Address	No.9, Heerachand Road, Cox Town, Bangalore-560005.
