

Profile

Name: Dr.S.Dharmalingam



EDUCATIONAL QUALIFICATION:

Bachelor of Engg.(Honours) in Electrical & Electronics Engineering -- Recipient of Gold medal from University of Madras (GCE, Salem) for securing FIRST RANK in the University.

Master of Engg. in Computer Science from National Institute of Technology, Tiruchirappalli.

Doctorate in Power plant controls & boiler dynamics from National Institute of Technology, Tiruchirappalli.

PROFESSIONAL:

Position held : GENERAL MANAGER, BHEL, TIRUCHIRAPPALLI.

Present Position : Visiting Professor, NIT, Tiruchirappalli

EXPERIENCE:

More than 32 Years in the field of Electrical, Instrumentation & Controls for steam generators for power plants and industrial plants at BHEL, Trichy.

General Manager and Head of Research and Development group and Welding Research Institute for 2 years at BHEL, Trichy.

General Manager and Head of Quality department for more than 3 years at BHEL, Trichy

PROFESSIONAL BODY MEMBERSHIPS:

Fellow of The Institution of Engineers (India). Also a Chartered Engineer of the Institution. Chairman of the Institution of Engineers (India), Tiruchirappalli local center from 2006 - 2008. Member of Computer Society of India.

AWARDS:

Recipient of

i) the Eminent academician award during the International Conference on Instrumentation and Control Engg (ICECON 2019) held in Dec. 2019 by the Instrumentation and Control Engg. Dept., National Institute of Technology, Tiruchirappalli.

ii) the Eminent Engineer award from Electrical Engg. Division Board, The Institution of Engineers (India), for the year 2017.

iii). BHEL Excel award 2012 (gold medal, citation + Rs.40000) for best paper publication in Jan. 2013

iv). the Best Engineer award from The Institution of Engineers (India), Tiruchirappalli local center for the year 2010.

v). Republic day awards from BHEL, Trichy in many occasions and

vi). Third prize (US\$ 1000) in the International Essay Contest 1992 organised by Asian Productivity Organisation, Japan.

ACADEMIC INTEREST :

Visiting professor to EEE dept. and ICE dept. at National Institute of Technology, Tiruchirappalli and few other institutions, for more than two decades.

As an expert from Industries, regularly handled the following subjects for UG and PG students:

Power plant Instrumentation and Control,
Logic and Distributed control systems,
Instrumentation System Design,
Power generation systems,
Electrical Safety,
Industrial Automation,
Total Quality Management,
Professional ethics,
Industrial safety etc.,

Member of Board of studies representing industry for finalizing the syllabus for B.Tech. / M.Tech. courses in NITT, and no. of autonomous engg. colleges.

PUBLICATIONS:

Published more than 18 technical articles in various National / international journals. Presented five papers on various topics related to Power plant electricals and controls in International conferences held at USA and Singapore.

PATENTS:

Filed more than 15 patents in various fields.

CONTACT DETAILS:

Dr. S. Dharmalingam
Mobile: 9443342066
Email: sdharma59@gmail.com

Publications

Sl. No.	Year	Authors	Title	Name of Journal
1	2020	S. Dharmalingam	Some Aspects on Electric Vehicles and Sustainable Future	Annual Technical Volume of Electrical Engineering Division of The Institution of Engineers (India) on the theme "Electric Vehicles"
2	2019	S. Dharmalingam	Water Management in India : Is interlinking of rivers the only option ?	Annual Technical Volume of Civil Engg. Division of The Institution of Engineers (India) on the theme "interlinking of rivers"
3	2019	Subha Hency Jims, S. Dharmalingam, J. Jayakumar	Book chapter 4: Control of main steam temperature during load disturbances of an Utility Boiler using classical PID tuning method	Chapter 4 in Advanced Engineering Research and Application: Volume 6, Research India Publications.
4	2017	P. Rajalakshmy L. Sivakumar S. Dharmalingam	Book Chapter 25: A heuristic approach for modelling the furnace of a utility boiler	Advanced Engineering Research and applications: Volume V, Research India Publications, pp 388-408
5	2017	P.Rajalakshmy, Subha Hency Jims, S. Dharmalingam, J. Jayakumar	Development of Detailed Mathematical Model of a 500 MW Utility Boiler Based on Chemical and Thermodynamic Equations	International Journal of ChemTech Research CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.10 No.6, pp 202-208, 2017
6	2017	P. Rajalakshmy J. Jayakumar S. Dharmalingam	An Investigation on Identification and Modeling Approaches of a Multi-Input Multi-Output System	Proceedings of IEEE International Conference on Recent Advances in Aerospace Engineering - ICRAAE 17, Karunya University, IEEE ISBN No. 978-1-5090-4984-4
7	2017	P. Subha Hency Jims J. Jayakumar S. Dharmalingam	Application of classical step response method to determine the PID controller parameters for a 500 MW steam generator in a thermal power plant	Pak. J. Biotechnoly. Vol. 14 (Special Issue II) Pp. 242-245 (2017)
8	2017	P. Subha Hency Jims J. Jayakumar S. Dharmalingam	An Investigation on the control of critical parameters of a Multivariable Control System	Proceedings of IEEE International Conference on Recent Advances in Aerospace Engineering - ICRAAE 17, Karunya University, IEEE ISBN No. 978-1-5090-4984-4

9	2016	P. Subha Hency Jims J. Jayakumar S. Dharmalingam	Application of classical step response method to evaluate the PID controller constants for controlling the critical process parameters of a 500 MW steam generator in a thermal power plant during fuel switching	Journal of Electrical Engineering: Volume 6 / 2016 - Edition : 4, pages 299 to 399, ISSN 1582-4594.
10	2016	L. Sivakumar Subha Hency Jims S.Dharmalingam	An investigation on the efficacy of classical tuning algorithm to satisfy advanced requirements: control of main steam pressure during fuel switching and load disturbances in coal fired boilers	Science Direct, IFAC-PapersOnLine 49-1 (2016) 443-449.
11	2012	S.Dharmalingam, L. Sivakumar M. Umapathy	Optimising Boiler Performance for varying coals using mathematical modeling and statistical tools	International Conference HICAMS 2012, 5-7 January 2012, Tiruchirappalli, India, pp.312-317.
12	2011	S Dharmalingam L Sivakumar T Anandhi M Umapathy	Improved method to mitigate the effect of coal fuel switching on critical process parameters of a steam generator in a thermal power plant	Proc. IMechE Vol. 225 Part A: J. Power and Energy DOI: 10.1177/0957650911420016
13	2011	S Dharmalingam L Sivakumar M Umapathy	Optimising boiler performance for varying coals using mathematical modeling and embedded controller	54th Annual ISA POWID Symposium, 6-8 June 2011, Charlotte, NC, USA.
14	2010	S Dharmalingam L Sivakumar M Umapathy	Fuel switching in Thermal Power Plants - impact on the Critical Process Parameters of a Steam Generator	International Conference on System Modelling, Optimisation and Advanced Process Automation (SYMOPA-2010), Dec.18-19,2010, Control and Instrumentation Group, CDAC, Thiruvananthapuram
15	2009	S. Dharmalingam L. Sivakumar K. K. Anil Kumar	Simplified approximations for the accumulation value and time constant for an evaporator system in drum-type boilers	Proc. IMechE Vol. 224 Part A: J. Power and Energy, DOI: 10.1243/09576509JPE795
16	2009	S. Dharmalingam L. Sivakumar K.K. Anil Kumar	Effect of Variation in Coal Quality on Critical Process Parameters of	6 th International Conference on Trends in Industrial Measurements and

			a Steam Generator in a Thermal power plant	Automation (TIMA 2009), 4-6 Jan. 2009, MIT Campus, Anna University, Chennai
17	2007	Gurunath Yankanchi D. Chattopadhyay S. Dharmalingam	Wireless Technology for Power Plant Applications	5th International Conference on Trends in Industrial Measurements and Automation (TIMA 2007), 4-7 January 2007, NIT, Tiruchirappalli
18	1997	S. Dharmalingam	Comprehensive Safety Instrumentation for firing by-product gases from industrial processes in Fossil boilers	International Conference InstrumentAsia 97 held at Singapore from 4-6 Nov. 97.