

BIO DATA



Name : Dr.S. Kannan, BOYSCAST Fellow
Designation : Professor & Head
Department : EEE
Address for Communication : 45, Nakkirar Street,
Virudhunagar – 626 001.
Email : kannan@ritrjpm.ac.in
Mobile Number : 94424 40249

Google Scholar link : <https://scholar.google.co.in/citations?user=oOIZsUEAAAAJ&hl=en>

Vidwan ID: 168529

ORCID ID: 0000-0003-2802-3047

Google Scholar ID: oOIZsUEAAAAJ

WoS Researcher ID: AAG-4603-2021

Scopus ID: 26028823200

1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electrical and Electronics Engineering	Madurai Kamaraj University	1991
M.E	Power System Engineering	Madurai Kamaraj University	1998
Ph.D	Power System Engineering	Madurai Kamaraj University	2005
PDF	Better Opportunities for Young Scientists In Chosen Areas of Science and Technology (BOYSCAST) fellowship – Awarded by Department of Science and technology (DST), Govt. of India, New Delhi Multicriteria decision making including Genetic Algorithms and Neural networks	Iowa State University, Ames, Iowa, USA	2007

2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1.	Professor, Head Department of Electrical and Electronics Engineering	Ramco Institute of Technology, Rajapalayam.	09.06.2014	till now

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2.	Sr.Professor, Department of Electrical and Electronics Engineering	Kalasalingam University, Krishnankoil.	01.09 2012	07.06.2014
3.	Dean (Admissions & Student Affairs)	Kalasalingam University, Krishnankoil	01.07.2012	07.10.2013
4.	Professor, Department of Electrical and Electronics Engineering	Kalasalingam University, Krishnankoil.	01.01.2008	31.08.2012
5.	Head of the Dep.t, Electronics and Communication Engineering	Kalasalingam University, Krishnankoil.	15.11.2007	13.09.2009
6.	Associate Professor	Kalasalingam University, Krishnankoil.	01.01.2006	31.12.2007
7.	Head of the Dept., Instrumentation and Control Engineering	Kalasalingam University, Krishnankoil.	23.09.2004	30.09.2006
8.	Assistant Professor, Department of Electrical and Electronics Engineering	Kalasalingam University, Krishnankoil.	01.07.2005	31.12.2005
9.	Senior Lecturer, Department of Electrical and Electronics Engineering	Kalasalingam University, Krishnankoil.	01.01.2003	30.06.2005
10.	Lecturer, Department of Electrical and Electronics Engineering	Kalasalingam University, Krishnankoil.	06.07.2000	31.12.2002
11.	Lecturer, Department of Electronics and Instrumentation Engineering	Kamaraj College of Engg., and Tech., Virudhunagar,	01.06.1999	5.07.2000

12.	Lecturer, Department of Electrical and Electronics Engineering	P.S.N.A.College of Engg., &Tech., Dindigul,	22.12.1998	31.05.1999
13.	Part-time Lecturer, Department of Electrical and Electronics Engineering,	Thiagarajar College of Engg., Madurai,	Dec.1997	Nov.1998
14.	Lecturer, Department of Electrical and Electronics Engineering	Lakshmi Ammal Polytechnic, Kovilpatti, Tamilnadu, India	15.07.1996	05.08.1997
15.	Maintenance Engineer	E.C.E Industries Ltd., Elevator division, Cochin, Kerala, India.	27.01.1994	13.07.1996
16.	Graduate Engineer Trainee	Tamilnadu Electricity, Board, Virudhunagar, Tamilnadu, India	22.07.1992	21.07.1993

3. Research Interest

Power System Engineering

4 Publications

4.1 JOURNAL PUBLICATIONS

2003

1) S. Kannan, S. Jawahar, S. Mary Raja Slochanal and Narayana Prasad Padhy, "Generation expansion planning with power flow constraints-Evolutionary strategy approach", Water and Energy International Journal, Central Board of Irrigation and power, NewDelhi, Vol. 60, No. 3, pp. 37-44, July-September 2003, Print ISSN: 0974-4207, Online ISSN:0974-4711.

<http://www.indianjournals.com/ijor.aspx?target=ijor:wei&volume=60&issue=3&article=005>

2004

2) S. Kannan, S. Mary Raja Slochanal, S. Jawahar and Narayana Prasad Padhy, "Genetic algorithm approach to generation expansion planning under deregulated environment", Journal of Energy and Environment, Centre for Energy Studies, BUET, Dhaka-1000, Bangladesh, pp. 1-13, Vol. 3, May 2004, ISSN: 1563-1362.

3) S. Kannan, S. Mary Raja Slochanal, P. Subbaraj and Narayana Prasad Padhy, "Application of Particle swarm optimization technique and its variants to Generation expansion planning problem", Electric Power Systems Research, (Elsevier Science Ltd) Vol. 70, Issue 3, pp. 203-210, August 2004. *IF:1.259, ISSN: 0378-7796*

2005

4) S. Kannan, S. Mary Raja Slochanal and Narayana Prasad Padhy, "Application and comparison of metaheuristic techniques to generation expansion planning problem", IEEE Transactions on Power Systems, Vol. 20, No. 1, pp 466-475, Feb 2005, *IF:1.938, ISSN: 0885-8950*.

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5) K. Mahadevan, P.S. Kannan, S. Kannan, “Particle Swarm Optimization for Economic Dispatch of generating units with valve-point loading”, Journal of Energy and Environment, Centre for Energy Studies, BUET, Dhaka – 1000, Bangladesh, Vol. 4, pp. 49-61, May 2005, ISSN: 1563-1362.

6) S. Kannan, S. Mary Raja Slochanal, Narayana Prasad Padhy and S. Suba, “Improved Evolutionary Programming Based Generation Expansion Planning under Partially Deregulated Environment”, Journal of International Association on Electric Generation Transmission and Distribution (Afro-Asian Region), Central Board of Irrigation and Power (CBIP), New Delhi, Vol. 17-18 No. 1, March - June 2005, Online ISSN: 2229-4449.

2006

7) S. Kannan, S. Mary Raja Slochanal, S. Baskar and Narayana Prasad Padhy, “Application and comparison of metaheuristic techniques to generation expansion planning incorporating both bilateral and multilateral transactions”, International Journal of Emerging Electric Power Systems, Vol. 6, Issue 1, Article 2, 2006, pp.1-12, *IF:0.224*, ISSN: 1553-779X

2007

8) S. Kannan, S. Mary Raja Slochanal, S. Baskar and P.Murugan, “Application and comparison of metaheuristic techniques to generation expansion planning in the partially deregulated environment”, IET Generation, Transmission & Distribution, Volume 1, Issue 1, January 2007, pp. 111-118. *IF:0.856*, ISSN. Print: 1751-8687; Online: 1751-8695.

2009

9) S.Kannan, and P.Murugan, “Solutions to transmission constrained generation expansion planning using Differential evolution,” European transaction on electrical power, Wiley Interscience, Vol. 19, pp1033-1039, 2009. *IF: 0.32*, ISSN:1546-3109.

10) S.Kannan, S. Baskar, James D McCalley and P. Murugan, “Application of NSGA-II Algorithm to generation expansion planning,” IEEE Trans. on power system, Vol. 24, No. 1, pp 454-461, Feb. 2009. *IF:1.938*, ISSN: 0885-8950.

11) P. Murugan, S.Kannan and S. Baskar, “NSGA-II Algorithm to Multi-objective Generation Expansion Planning Problem”, Electric Power Systems Research, Vol.79, No.4, pp 622-628, April 2009. *IF:1.259*, ISSN: 0378-7796

12) S. Ramesh, S. Kannan, and S. Baskar, “Application of a Fast and Elitist Multi-Objective Genetic Algorithm to Reactive Power Dispatch”, Serbian Journal of Electrical Engineering, Vol.6, No.1, May 2009, pp.119-133. ISSN 1451 – 4869

13) P. Murugan, S. Kannan and S. Baskar, “Application of NSGA-II Algorithm to Single-Objective Transmission constrained Generation Expansion Planning”, IEEE Trans. on power system, Vol. No. 24, No.4, pp 1790-1797, Nov. 2009. *IF:1.938*, ISSN: 0885-8950.

2011

14) S. Dhanalakshmi, S. Kannan, K. Mahadevan, S. Baskar, “Application of Modified NSGA-II Algorithm to Combined Economic and Emission dispatch problem”, International Journal of Electrical Power and Energy Systems, Vol. 33, 2011, pp. 992-1002. *IF:1.61*, ISSN: 0142-0615

2012

15) S.Ramesh, S.Kannan and S.Baskar, “Application of Modified NSGA-II Algorithm to Multi-objective Reactive Power Planning”, Applied Soft Computing – Elsevier, Vol. 12, Issue 2, Feb. 2012, pp. 741-753, *IF: 2.084*

16) S. Ramesh, S. Kannan, and S. Baskar, "An Improved Generalized Differential Evolution Algorithm for Multi-objective Reactive Power Dispatch", Taylor and Francis-Engineering Optimization, Vol.44, No.4, April 2012, pp.391-405, *IF: 0.902* (Print ISSN: 0305-215x, Online ISSN: 1029-0273).

17) B. Rampriya, K. Mahadevan, and S. Kannan, "A Hybrid LR-FA Technique to Optimize the Profit Function of GENCOS in a Restructured Power System", International Journal of Power and Energy Systems, Vol. 32, No. 3, pp. 113-120, 2012 (Acta Press), ISSN (Online): 1710-2243, ISSN (Hardcopy): 1078-3466

18) A.Muthukumar, C.Kasthuri, S.Kannan, "Multimodal Biometric Authentication Using Particle Swarm Optimization Algorithm with Fingerprint and Iris" *ICTACT Journal on Image and Video Processing (IJIVP)*, An international publication of ICT Academy of Tamilnadu, Vol. 02, Issue 03, Feb. 2012, pp.369-374 (ISSN 0976-9099).

19) B.Rampriya, K.Mahadevan and S.Kannan, "Application of Differential Evolution to Dynamic Economic Dispatch problem with transmission losses under various bidding strategies in electricity markets", Journal of Electrical Engineering & Technology, JEET, Vol.7, No.5, September 2012, pp.681-688, <http://dx.doi.org/10.5370/JEET.2012.7.5.681>; IF 0.579

20) S. Saravanan, S. Kannan, C. Thangaraj, "India's Electricity Demand forecast using Regression Analysis and Artificial Neural Networks based on principal components", *ICTACT Journal on Soft Computing (IJSC)*, An international publication of ICT Academy of Tamilnadu, July 2012, Vol. 2, Issue 4, pp.365-370

21) K. Karthikeyan, S. Kannan, S. Baskar and C. Thangaraj, "Application of Restart Covariance Matrix Adaptation Evolution Strategy (RCMA-ES) to Generation Expansion Planning Problem", "ICTACT Journal on Soft Computing" Volume -3, Issue-1, October 2012, pp.401-407

22) S. Arun Singh, A.Muthukumar, S.Kannan, "Iris Authentication using SIFT with SVM" *Special Issue of International Journal of Computer Applications (0975 – 8887) on International Conference on Electronics, Communication and Information Systems (ICECI 12)*, Vol. 02, November 2012, pp.1-3 (ISBN 973-93-80870-65-2).

23) B. Sivasubramanian, K. Vijayakumar, and S. Kannan, "Design And Implementation of Passive Filter In Industrial Applications" *i-manager's Journal on Instrumentation & Control Engineering*, Vol. 1, No. 1, November 2012 - January 2013, pp.18-24

2013

24) S.Dhanalakshmi, S.Baskar, S.Kannan and K.Mahadevan, "Generation Scheduling Problem by Intelligent Genetic Algorithm", *Computer and Electrical Engineering*, (Elsevier), Vol. 39, Issue. 1., January 2013, pp. 79-88. (*IF: 0.5*), *ISSN: 0045-7906*.

25) K. Karthikeyan, S. Kannan, S. Baskar and C. Thangaraj, "Application of Opposition based DE to Generation Expansion Planning Problem", *Journal of Electrical Engineering and Technology*, Vol. 8, No. 4, pp. 686-693, 2013, ISSN(Print) 1975-0102, ISSN(Online) 2093-7423, <http://dx.doi.org/10.5370/JEET.2013.8.4.686>

26) A.Muthukumar and S.Kannan, "Finger Knuckle print Recognition with SIFT and K-Means Algorithm", *ICTACT Journal on Image and Video Processing (IJIVP)*, An International publication of ICT Academy of Tamilnadu, Vol. 03, Issue 03, ISSN 0976-9099, February 2013, pp.583-588

27) 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", Journal of Electrical Engineering & Technology (JEET), Vol.8, No.3, May 2013, pp. 490-498. <http://dx.doi.org/10.5370/JEET.2013.8.3.490>, ISSN (Print) 1975-0102, ISSN(Online) 2093-7423.

28) K. Karthikeyan, S. Kannan, S. Baskar and C. Thangaraj, "Application of Self-adaptive Differential Evolution Algorithm to Generation Expansion Planning Problem", Journal of Electrical Systems, Volume 2, Issue 2, 2013, pp. 203-211.

29) R.Krishna Priya, C.Thangaraj, C. Kesavadas and S. Kannan, "Fuzzy Entropy based MR Brain Image Segmentation Using Modified Particle Swarm Optimization" International Journal of Imaging Systems and Technology (Wiley Blackwell), Vol. 23, Issue 4, Dec. 2013, pp. 281- 288, (Impact Factor: 0.799).

2014

30) S.Ponnayira Sundaravel, K.Vijayakumar and S.Kannan, "Reactive Power Control Using STATCOM", "IEEE International Conference on Emerging Trends in Science, Engineering, Business and Disaster Management" [ICBDM 2014] on 28th February 2014, Journal of Emerging Technologies, Image Processing & Networking, Vol.8, Special Issue:1, Feb 2014, ISSN No.: 0973-2993, Published by The Department of Electrical and Electronics Engineering, Noorul Islam Centre for Higher Education, Noorul Islam University, Nagercoil, INDIA, pp. 288-293.

31) T.Arunprasath, M.Pallikonda Rajasekaran and S.Kannan, "A Quantitative Assessment of PET Brain Image Reconstruction using MAP and Neural Network based Segmentation of CG Algorithm", International Journal of Computer Information Systems and Industrial Management Applications, Vol. 6, 2014, pp. 381- 390. ISSN 2150-7988, www.mirlabs.net/ijcisim/index.html

32) M.Rajkumar, K.Mahadevan, S.Kannan, and S.Baskar, "NSGA-II technique for Multiobjective generation dispatch of thermal generators with non-smooth fuel cost functions" Journal of Electrical Engineering & Technology (JEET), Vol. 9, No. 2: 423-432, 2014, <http://dx.doi.org/10.5370/JEET.2014.9.2.742>, ISSN(Print) 1975-0102 ISSN(Online) 2093-7423.

33) A.Muthukumar and S.Kannan, "K-Means Based Multimodal Biometric Authentication using Fingerprint and Finger Knuckle Print with Feature level fusion", Iranian Journal of Science & Technology, IJST, Transactions of Electrical Engineering, Vol. 37, No. E2, pp. 133-145 (SCI Impact Factor: 0.6), 2013

34) K.Karunanithi, S.Kannan, C.Thangaraj, "Generation Expansion Planning for Tamil Nadu- A case study", International Transactions on Electrical Energy Systems, vol. 25, Issue 9, pp. 1771-1787, DOI: 10.1002/etep.1929, March 2014. ISSN: 2050-7038.

35) J.Kohila, R.Muniaraj, and S.Kannan, "Z-Source Multilevel Inverter for Photovoltaic Application", Special Issue of International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol.03, Special Issue 03, March 2014, pp.492-497, ISSN (Print): 2347-6710, ISSN (Online): 2319-8753, M.R.Thanasekar and N.Balaji (Eds.): ICIET 2014

(IEEE International conference on Innovation in Engineering and Technology, ICIET-2014, held on 21-22 March 2014, K.L.N college of engineering, Madurai, Tamilnadu, pp.473-478)

36) Arunprasath, T., Pallikonda, R. M. and Kannan, S. (2014), "PET image reconstruction using ANN", *International Journal of Imaging Systems and Technology*, vol. 24, Issue 3, pp. 249–255, Sep. 2014, doi: 10.1002/ima.22100, (Impact Factor: 0.768), ISSN: 1098-1098

37) S.Suresh, S.Kannan and S.Ponnayira Sundaravel, "A Modified Single phase H-Bridge Inverter for High Power Applications with Power Quality Improvement", *Applied Mechanics and Materials* Vol. 626 (2014) pp.118-126, © (2014) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.626.118

38) S.Saravanan, S.Kannan and C.Thangaraj, "Electric energy consumption of domestic sector in INDIA", *REVISTA TECNICA DE LA FACULTAD DE INGENIERIA UNIVERSIDAD DEL ZULIA* (Technical Journal of the Faculty of Engineering, TJFE), Rev. Téc. Ing. Univ. Zulia. Vol. 37, No. 3, pp.41-50, 2014. (Impact factor - 0.033)

39) J.Booma, K.Mahadevan and S.Kannan, "Selection of optimal capacity of wind turbine generator for Generation Expansion Planning by considering cost and reliability", *International Journal of Applied Engineering Research (IJAER)*, *Special Issue*, Vol. 9, No. 24, 2014, pp. 8403-8406

40) S.Saravanan ,S.Kannan, C.Thangaraj, "Predicting India's electricity consumption: A comparison of least square support vector machine and artificial neural networks", *International Journal of Applied Engineering Research (IJAER)*, *Special Issues*, Vol. 9, No. 26, 2014, pp. 9094-9097

41) T.Arunprasath, M.Pallikonda Rajasekaran, S.Kannan, E.Malarvizhi, "A Quantitative Assessment of PET Image Reconstruction using Filtered Back Projection (FBP), Conjugate Gradient (CG) and Artificial Neural Network (ANN) Algorithm", *International Journal of Applied Engineering Research (IJAER)*, *Special Issues*, Volume 9, Number 26, 2014, pp. 9107-9110

2015

42) M.Rajkumar, K.Mahadevan, S.Kannan and S.Baskar, "Environmental and economic power dispatch of thermal generators using modified NSGA-II algorithm", *International Transactions on Electrical Energy Systems (Formerly European Transactions on Electrical Power)*, Vol. 25, Issue 8, 2015, pp. 1552-1569. - DOI: 10.1002/etep.1918.

2015_MR_KM_SK_SB_Env and eco power dispatch of thermal gen. using modified NSGA-II algorithm", *International Transactions on Electrical Energy Systems (Formerly European Transactions on Electrical Power)*, Vol. 25, Issue 8, 2015, pp. 1552-1569. - DOI: 10.1002/etep.1918.

43) A.Muthukumar, S.Kannan "Finger Knuckle Print Authentication using AES and K-Means Algorithm", *International Arab Journal of Information and technology*, vol. 12, no. 6A, December 2015, pp. 642-649

44) A.Muthukumar, S.Kannan, "AES Based Multimodal Biometric Authentication using Cryptographic Level Fusion with Fingerprint and Finger Knuckle Print", *International Arab Journal of Information and technology*, vol. 12, No. 5, Sep. 2015, pp.431-440.

45) T.Arunprasath, M.Pallikonda Rajasekaran and S.Kannan, "ANFIS - EM approach For PET brain image reconstruction", *Int. J. Imaging Syst. Technol.*, vol.25, no.1, pp. 1-6. March 2015, doi: 10.1002/ima.22114

- 46) T.Arunprasath, M.Pallikonda Rajasekaran and S.Kannan, "Neural network segmented CD algorithm-based PET liver image reconstruction", *Int. J. Biomedical Engineering and Technology*, vol. 17, no. 3, January 2015 pp.276-289, Inderscience publications.
- 47) S.Saravanan, G.Saravanakumar, S.Kannan, C.Thangaraj, "Electric energy consumption of industrial sector in India", *International Journal of Applied Engineering Research (IJAER), Special Issues*, 2015, vol. 10, no. 6, 2015, pp. 5044-5049.
- 48) S.Saravanan, S.Amosedinakaran, S.Kannan, C.Thangaraj, "Estimating electric energy consumption: Case study of India", *International Journal of Applied Engineering Research (IJAER), Special Issues*, vol. 10, no. 6, 2015, pp. 5298-5304.
- 49) J. Kohila, V. Suresh Kumar, and S.Kannan, "ICOS ϕ algorithm based control for distribution static compensator", *International Journal of Applied Engineering Research (IJAER), Special Issues*, vol. 10, no. 6, 2015, pp. 5553- 5558
- 50) B.R.Prabakar, K.Karunanithi, S.Kannan, C. Thangaraj, "Energy model of electric sector for Tamil Nadu", *International Journal of Applied Engineering Research (IJAER), Special Issues*, vol. 10, no. 6, 2015, pp. 5681- 5687
- 51) N.Pothirasan, K.Vijayakumar, S.Ponnayirasundaravel, S.Kannan, "Reactive Power Compensation Using Cascaded Multi Level Inverter", *International Journal of Applied Engineering Research (IJAER), Special Issues*, vol. 10, no. 9, 2015, pp. 7452-7456.
- 52) R. Krishna Priya, C.Thangaraj, C.Kesavdas, S.Kannan, "Brain Tumor Segmentation in MRI Images Using Integrated Modified PSO-Fuzzy Approach", *International Arab Journal of Information Technology*, 12 (6A), 2015, 797-804.
- 53) D.Danalakshmi and S.Kannan, "Market based reactive power cost allocation in restructured power system", *REVISTA TECNICA DE LA FACULTAD DE INGENIERIA UNIVERSIDAD DEL ZULIA (Technical Journal of the Faculty of Engineering, TJFE)*, Rev. Téc. Ing. Univ. Zulia. Vol. 38, No. 1, pp.97-104, April 2015. (Impact factor - 0.033)
- 54) S. Saravanan, S. Kannan, and C. Thangaraj, "Prediction of India's electricity demand using ANFIS", *ICTACT Journal on Soft Computing (IJSC)*, An international publication of ICT Academy of Tamil Nadu, vol. 05, Issue. 03, April 2015, pp. 985-990.
- 55) J. Booma, K. Mahadevan and S. Kannan, "Minimum cost estimation of generation expansion planning incorporating wind power plant", *ARNP Journal of Engineering and Applied Sciences*, Asian Research Publishing Network (ARNP), vol. 10, no.7, April 2015, pp.2956-2961.
- 56) K. Karthikeyan, S. Kannan, S. Baskar and C. Thangaraj, "Application of NSGA-II, Modified NSGA-II and IGDE-3 Algorithms to Multi-Objective Transmission Constrained Generation Expansion Planning", *International Journal of Applied Engineering Research (IJAER), Special Issues*, vol. 10, no. 44, 2015, pp. 31004 – 31013.
- 57) K.Karthikeyan, S.Kannan, S.Baskar, C.Thangaraj, "Application of MOEA/D Algorithm to Multi-Objective Generation Expansion Planning", *International Journal of Applied Engineering Research (IJAER), Special Issues*, vol. 10, no. 44, 2015, pp. pp.31875-31882.
- 58) P. Iniyatharasi, M. Pallikonda Rajasekaran, T. Arun Prasath and S. Kannan, "PET Image Reconstruction Using ISRA Technique", *Australian Journal of Basic and Applied Sciences*, vol. 9, no.16, 2015, pp. 110-117.

59) K.Karunanithi, S.Kannan and C.Thangaraj, “Reliability analysis of Tamil Nadu power grid for the year 2013”, International Journal of Applied Engineering Research (IJAER), *Special Issues*, vol. 10, no. 55, 2015, pp. 3032-3038.

60) D.Danalakshmi and S.Kannan, “Market based pricing for reactive power service in restructured practical power system”, International Journal of Applied Engineering Research (IJAER), *Special Issues*, vol. 10, no. 55, 2015, pp. 3137-3142.

61) P.Shanmugapriya, T.Arunprasath and S.Kannan, “PET Image Reconstruction Using Extreme Learning Machine”, International Journal of Applied Engineering Research (IJAER), *Special Issues*, vol. 10, no. 59, 2015, pp. 387-389.

62) S.Suresh, S.Kannan and P.Murugan, “Power Quality Improvement using Asymmetrical Multilevel Inverter for Grid Connected Photo Voltaic System”, REVISTA TECNICA DE LA FACULTAD DE INGENIERIA UNIVERSIDAD DEL ZULIA (Technical Journal of the Faculty of Engineering, TJFE), Rev. Téc. Ing. Univ. Zulia. Vol. 38, No. 3, pp.47-63, December 2015. (Impact factor - 0.033)

63) K.Karunanithi, A.Bhuvanesh, S.Kannan, “Generation Expansion Planning - A Tutorial Paper”, VFSTR Journal of STEM, vol.01, no.02 (2015) 2455-2062, pp. 1-11

64) M. Rajkumar, K. Mahadevan and S. Kannan, “Evolutionary programming solution for Economic Dispatch of units with ramp rate limits”, VFSTR Journal of STEM, vol.01, no.02 (2015) 2455-2062, pp. 12-17

65) K.Rajesh, K.Karthikeyan, S.Kannan and M.Karuppasamyandian, “Generation Capacity Expansion Planning with Solar Power Plant Incorporating Emission”, VFSTR Journal of STEM, vol.01, no.02 (2015) 2455-2062, pp.18-37

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66) K.Rajesh, A.Bhuvanesh, S.Kannan, C.Thangaraj “Least Cost Generation Expansion Planning with Solar Power Plant using Differential Evolution Algorithm” “Renewable Energy” (Elsevier), vol. 85, January 2016, pp.677-686. DOI: <http://dx.doi.org/10.1016/j.renene.2015.07.026>. (SCI)

67) K.Rajesh, K.Karthikeyan, S.Kannan and C.Thangaraj, “Generation Expansion Planning based on Solar plants with Storage”, Renewable and Sustainable Energy Reviews (Elsevier), vol. 57, 2016, pp.953-964, DOI: 10.1016/j.rser.2015.12.126 (SCOPUS) (SCI)

68) K.Rajesh, S.Kannan and C.Thangaraj, “Least Cost Generation Expansion Planning With Wind Power Plant Incorporating Emission Using Differential Evolution Algorithm”, International Journal of Electrical Power and Energy Systems (Elsevier), vol. 80, 2016, pp.275-286, doi:10.1016/j.ijepes.2016.01.047 (SCOPUS) (SCI)

69) M. ArumugaBabu, R.Mahalakshmi, S.Kannan, M.Karuppasamyandian and A.Bhuvanesh, “Application of Self Adaptive Differential Evolution Algorithm for Optimal Placement and Sizing of Renewable DG Sources in Distribution Network Including Different Load Models”, International journal of advanced engineering technology, Int J AdvEngg Tech/Vol. VII/Issue I, pp. 668-675, Jan.-March, 2016.

70) M.Arumuga Babu, R.Mahalakshmi, S.Kannan, M.Karuppasamyandian, A.Bhuvanesh, “Economic Dispatch of Distributed Generation Using Backtracking Search Optimization Algorithm”,

71) J.Booma, K.Karunanithi, K.Mahadevan and S.Kannan, "Reliability analysis for restricted and unrestricted demand of Tamilnadu power grid for the year 2014 using WASP-IV", International Journal of Future Innovative Science and Engineering Research (IJFISER), vol.02, Issue-II, June 2016, ISSN (Online): 2454- 1966, www.istpublications.com.

72) S. Suresh, S. Kannan, R. Karthigaivel, "Reactive Power Compensation using Fuzzy Logic Controlled Multilevel Inverter for Power Distribution System", Journal of Computer Science and Control Systems (JCSCS), vol. 9, no. 2 October 2016, pp.41-47.

73) A.Bhuvanesh, S.T.Jaya Christa, S.Kannan, "Electricity Generation Expansion Planning for Tamil Nadu considering Greenhouse Gasses Emission", Asian Journal of Research in Social Sciences and Humanities, vol. 7, no. 3, pp. 264-288, 2017. DOI: 10.5958/2249-7315.2017.00170.8.ISSN: 2249-7315 (ONLINE), 2250-1665 (PRINT).

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75) M. Arumuga Babu, R. Mahalakshmi, S. Kannan, M. Karuppasamyandian and A. Bhuvanesh, "Distributed Generation Optimization Using Multi Objective Differential Evolution Algorithm", International Journal of Printing, Packaging & Allied Sciences, vol. 4, no. 3, December 2016, pp. 1847-1856.

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73) D. Danalakshmi, S. Kannan and R.Gnanadass, “Cost Allocation for VAR providers in Utility System for Optimal Reactive Power Dispatch” International Conference on Advanced Computing and Communication Systems (ICACCS -2017), Jan. 06 - 07, 2017, Sri Eshwar college of Engineering, Coimbatore, India. (will be indexed in IEEE Xplore) pp.791-796

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80) M. Uma Maheswari, S. Kannan, “Boost Power Factor Correction in Nonlinear Loads”, National Conference on Computer, Electrical and Electronics Engineering (TECHTASTIC 2K20), held on 6, March 2020 at PSR Rengasamy College of Engineering for Women, Sivakasi.

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4.3 Book/Book chapter publications

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2. T. Arunprasath, M. Pallikonda Rajasekaran, S. Kannan, Shaeba Mariam George, “Performance Evaluation of PET Image Reconstruction Using Radial Basis Function

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3. K.Vijayakumar, R. Sundar raj, and S. Kannan, “Application of Sinusoidal Pulse Width Modulation Based Matrix Converter as revolutionized Power Electronic Converter”, Lecture notes in electrical engineering, *Power Electronics and Renewable Energy Systems*. Springer India, 2015, Series Volume 326, Chapter 2, pp.9-17, DOI 10.1007/978-81-322-2119-7_2, (The International Conference on Power Electronics and Renewable Energy Systems, Proceedings of ICPERES 2014, held at Rajalakshmi Engineering College, Chennai, India, in association with Springer and IEEE, 24-26 April, 2014).
 4. S.Saravanan, R.Nithya, S.Kannan and C.Thangaraj, “Forecasting India’s Electricity Consumption Using Particle Swarm Optimization”, Lecture notes in electrical engineering, *Power Electronics and Renewable Energy Systems*. Springer India, 2015, Series Volume 326, Chapter 82, pp.843-851, DOI 10.1007/978-81-322-2119-7_82, (The International Conference on Power Electronics and Renewable Energy Systems, Proceedings of ICPERES 2014, held at Rajalakshmi Engineering College, Chennai, India, in association with Springer and IEEE, 24-26 April, 2014).
 5. K.Karunanithi, S.Kannan, C.Thangaraj, "Reliability Evaluation of Tamil Nadu Power Grid for the year 2012”, Lecture notes in electrical engineering, *Power Electronics and Renewable Energy Systems*. Springer India, 2015, Series Volume 326, Chapter 104, pp.1067-1076, DOI 10.1007/978-81-322-2119-7_104, (The International Conference on Power Electronics and Renewable Energy Systems, Proceedings of ICPERES 2014, held at Rajalakshmi Engineering College, Chennai, India, in association with Springer and IEEE, 24-26 April, 2014).
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 7. M. Arumuga Babu, R. Mahalakshmi, S. Kannan, M. Karuppasamyandian, and A. Bhuvanesh, "On-line Economic Dispatch of Distributed Generation Using Artificial Neural Networks." In *Swarm, Evolutionary, and Memetic Computing*, Springer International Publishing, 2015. B.K. Panigrahi et al. (Eds.): SEMCCO 2014, LNCS 8947, pp. 275–283, vol. 8947, 2015. DOI: 10.1007/978-3-319-20294-5_24, 5th Joint International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2014), 18-20 December 2014, organized by Siksha 'O' Anusandhan University, Bhubaneswar, Odisha, India.
 8. S.Dhanalakshmi, S.Kannan, S.Baskar and K.Mahadevan, “Multi-objective Generation Scheduling using Modified Non-dominated Sorting Genetic Algorithm-

- II”, In *Swarm, Evolutionary, and Memetic Computing*, pp. 456-470. Springer International Publishing, 2015, B.K. Panigrahi et al. (Eds.): SEMCCO 2014, LNCS 8947, pp. 456–470, 2015, DOI: 10.1007/978-3-319-20294-5_40, 5th Joint International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2014), 18-20 December 2014, organized by Siksha 'O' Anusandhan University, Bhubaneswar, Odisha, India.
9. R.Krishna Priya, C.Thangaraj, C.Kesavdas, S.Kannan, “Application of Swarm Intelligence in Fuzzy Entropy Based Image Segmentation”, V. E. Balas et al. (eds.), *Innovations in Intelligent Machines-5, Studies in Computational Intelligence* 561, DOI: 10.1007/978-3-662-43370-6_8, Springer-Verlag Berlin Heidelberg 2014, pp. 227-245
 10. S. Ramesh, S. Kannan and S.Baskar, “Application of Modified NSGA-II Algorithm to Reactive Power Optimization, **Book Title:** Trends in Computer Science, Engineering and Information Technology, **Book Subtitle:** First International Conference on Computer Science, Engineering and Information Technology, CCSEIT 2011, Tirunelveli, Tamil Nadu, India, September 23-25, 2011. Proceedings, Nagamalai, D., Renault, E. and Dhanushkodi M. Eds. CCIS 204, Springer-Verlag, Berlin Heidelberg, Volume 204, 2011, pp. 344–354, Sep 23-25, 2011, Organised by Manonmaniam Sundharanar University, Tirunelveli-627012, Tamilnadu, India. **DOI:** 10.1007/978-3-642-24043-0_35 **Print ISBN:** 978-3-642-24042-3, **Online ISBN:** 978-3-642-24043-0
 11. 2) S. Dhanalakshmi, S. Kannan, S. Baskar and K. Mahadevan, “Intelligent Genetic Algorithm for Generation Scheduling under deregulated environment”, SEMCCO 2011, 19-21, Dec. 2011, Anil Neerukonda Institute of Technology & Sciences, Visakhapatnam, Andhra Pradesh, India Panigrahi B.K. et al. Eds. SEMCCO 2011, Part I, Lecture Notes in Computer Science (LNCS) 7076, Springer-Verlag, Berlin Heidelberg, pp. 282-289, 2011. (SNIP: 0.020 and SJR: 0.084).
 12. 3) S.Ramesh, S.Kannan and S.Baskar, “Application of an Improved Generalized Differential Evolution algorithm to multi-objective optimization problems”. SEMCCO 2011, 19-21, Dec. 2011, Anil Neerukonda Institute of Technology & Sciences, Visakhapatnam, Andhra Pradesh, India. Panigrahi B.K. et al. Eds. SEMCCO 2011, Part I, Lecture Notes in Computer Science (LNCS) 7076, Springer-Verlag, Berlin Heidelberg, pp. 77–84, 2011. (SNIP: 0.020 and SJR: 0.084).

5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	Effi Cycle ‘20	TRCL	1 year	1.75	Completed
2.	Electric Solar Vehicle Championship ‘20	TRCL	1 Year	2	Completed
3.	E-BAJA 2020	TRCL	1 Year	2	Completed
4.	Electric Two Wheeler Design Competition ‘20	TRCL	1 Year	0.4	Completed
5.	Electric Go-Kart Championships – 2020	TRCL	1 Year	0.9	Completed

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6.	SAEISS bicycle design competition 2020	TRCL	1 Year	0.2	Completed
7.	M-BAJA 2020	TRCL	1 Year	2.25	Completed
8.	SAEISS Tractor Design Competition '20	TRCL	1 Year	2.5	Completed
9.	“Development of Hybrid Metaheuristic Algorithms for solving Power System Operation Planning under deregulated Environment”	Department of Science and Technology, New Delhi,	Sep. 2007 to Sep. 2010.	9,90,720/-	Completed
10.	Autonomous Operated Robot for Water Tank Cleaning	Institution of Engineers-India(IE(I))	0.5 year	0.45 lakhs	Completed
11.	IoT based food waste monitoring system	Institution of Engineers-India(IE(I))	0.5 year	0.20 lakhs	Completed

6 Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status
1.	S. Dhanalakshmi	Kalasalingam University, Krishnankoil.	“Application of Genetic Algorithms to Generation Scheduling under Regulated and Deregulated Environment”	Completed
2.	S. Ramesh,	Anna University, Chennai.	“Application and Comparison of Multi-Objective Evolutionary Algorithms to Reactive Power Planning and Dispatch Problems,”	Completed
3.	A. Muthukumar	Kalasalingam University, Krishnankoil.	“Secured integrated authentication system using multimodal biometrics with fusion techniques”	Completed
4.	K. Karunanithi	Kalasalingam University, Krishnankoil.	“Investigation of Power System Reliability and Generation expansion planning”	Completed
5.	S. Suresh	Kalasalingam University, Krishnankoil.	Investigation of Various Multilevel Inverter topologies for Reactive Power Compensation of	Completed

			Distribution Power System”	
6.	D. Danalakshmi	Kalasalingam University, Krishnankoil.	-“Reactive power Optimization and pricing in Regulated and Deregulated power System using Differential Evolution”	Completed
7.	K.Rajesh	Kalasalingam University, Krishnankoil.	“Expansion Planning with Solar Power”	Completed
8.	R. Krishna Priya	Kalasalingam University, Krishnankoil.	“Integrated evolutionary fuzzy segmentation approach for detecting tumor in MR brain images”	Completed
9.	B. Rampriya	Kalasalingam University, Krishnankoil.	“Investigation of bidding strategies and profit maximization in unit commitment problem using differential evolution algorithms”,	Completed
10.	M. Rajkumar	Kalasalingam University, Krishnankoil.	“Combined economic emission dispatch using modified multi-objective genetic algorithm”	Completed
11.	S. Saravanan	Kalasalingam University, Krishnankoil.	“Long term electricity consumption forecasting using computational intelligence techniques”	Completed
12.	T. Arun Prasath,	Kalasalingam University, Krishnankoil.	“Multi modal PET image reconstruction using soft computing techniques”	Completed
13.	K. Karthikeyan	Kalasalingam University, Krishnankoil.	“Application of Differential Evolution and its variants to Generation Expansion Planning”	Completed
14.	K. Vijayakumar,	Kalasalingam University, Krishnankoil.	“Investigation of Multi-Function Grid Connected Converters for Enhanced Operation Employing Evolutionary Control Strategy”	Completed
15.	A. Arunkumar	Anna University, Chennai.	Eco-Friendly Generation Expansion Planning Considering Recuperation of Older Power Plants using PSO and its Variants	Completed

7 Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	"“Extramural Lecture Series(ELS)-ELS002 - Integrating the CDIO Principles Through Effective Teaching-Learning Activities”"	Ramco Institute of Technology	29.02.2024	-
2.	"“5th National Level Workshop on NIRF India Rankings 2024”"	Institute for Academic Excellence (IAE), Hyderabad.	13.12.2023	14.12.2023
3.	"“Extramural Lecture Series (ELS)-ELS001 - Integrated Curriculum Development Methodology for Engineering using CDIO Framework: A Case Study”"	Ramco Institute of Technology	16.11.2023	-
4.	"Train the Trainer program on Digital Productivity and AI Fluency under the Faculty Development Programme"	Naan Mudhalvan in partnership with Microsoft	06.10.2023	14.10.2023
5.	“ FDP -Design of Electrical Vehicles using MATLAB Simulink”	Ramco Institute of Technology RIT Electra & IE (I) EE Student Chapter	24.07.2023	26.07.2023
6.	“ FDP - Role of Artificial Intelligence in Power Sector”	PSN College of Engineering and Technology	29.05.2023	02.06.2023
7.	Naan Mudhalvan Robotic Process Automation Foundation Course	Ui path	26.05.2023	-
8.	International Conference on Recent Innovation in computer and manufacturing "IOT Based Food Waste manufacturing "	AAA College of Engineering Technology	12.04.2023	13.04.2023
9.	“Research Proposal Writing”	Ramco Institute of Technology - Research council,	30.01.2023	-
10.	National Assessment and Accreditation Council (NAAC)	Two day National level (online) Workshop on Role of NAAC in Enhancing Quality in Higher Education Institutions”	16.12.2022	17.12.2022
11.	“ Workshop - TinyML for scientific use cases”	Ramco Institute of Technology	25.07.2022	-

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12.	International Conference on Smart Technologies and Applications-2022 (ICSTA 2022)	Ramco Institute of Technology	11.03.2022	12.03.2022
13.	STTP on Fundamentals of Electrical and Electronics (Tessolve Semiconductor Training – Phase I “Circuit Analysis	RIT IE(I) EE	12.02.2022	-
14.	"Renewable Energy – A future alternative"	Government Polytechnic Thane AICTE Training and Learning (ATAL) Academy	17.01.2022	21.01.2022
15.	Outcome Based Learning"	Viveknand Education Society Business School AICTE Training and Learning (ATAL) Academy	11.01.2022	15.01.2022
16.	International Conference ICPIC on Presented a paper on “ Prediction of Tamil Nadu’s Annual Electricity Demand Using Adoptive Neuro –Fuzzy Network”	PSN College of Engineering & Technology, Tirunelveli	12.05.2021	-
17.	Webinar on “Implementation of National Educational Policy – 2020 ”	RIT- IIC in association with RIT-IQAC & ISIE- RIT-SRA	24.03.2021	-
18.	Faculty Development Program on “NITTT - Orientation Training Programme for Mentors”	NITTTTR Chandigarh	01.02.2021	05.02.2021
19.	Online FDP on Electric Vehicles	Maulana Azad National Institute of Technology, India	28.12.2020	02.01.2021
20.	(ATAL) Academy Online FDP on Waste Technology	C V Raman Global University	21.12.2020	25.12.2020
21.	Short Term Training Program (STTP) on Embedding Soft Skills In Technical Education - Its Impact And Effectiveness on Employability	GRG Polytechnic College, Coimbatore	17.11.2020	-
22.	Orientation program on Patent Search and Drafting	RIT-ISTE -IIC	24.10.2020	-
23.	FDP on Role of Faculty in Challenging Situation	RIT-ISTE	26.07.2020	-
24.	Suddru sulalum manitha kula valvum	Target Zero	05.06.2020	11.06.2020
25.	Interdisciplinary Webinar Series -I "Energy Audit and Management in Industrial Motors"	Ramco Institute of Technology, Rajapalayam	02.06.2020	-

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26.	How to Write a Good Research Project proposal	Indian Institute of Technology Kanpur	31.05.2020	-
27.	What the Best College teachers do"	RIT- Internal Quality Assurance cell -ISTE- Ramco Institute of Technology, Rajapalayam	29.05.2020	-
28.	Awareness on PANDEMIC Covid -19"	RIT-Faculty Recreation Club -ISTE- Ramco Institute of Technology, Rajapalayam	12.05.2020	-
29.	Inculcating Universal Human Values in Technical Education	All India Council for Technical Education	11.05.2020	15.05.2020
30.	Effective Use of Learning Management System	Ramco Institute of Technology, Rajapalayam	09.05.2020	-
31.	Multi-Criteria decision-making workshop	REST Society for research International (RSRI	23.04.2020	25.04.2020
32.	Artificial Intelligence	Indian Institute of Information Technology, Nagpur	24.04.2020	28.04.2020
33.	Leading in a VUCA World	ICT Academy - Sky Campus	20.04.2020	24.04.2020
34.	Yoga for Holistic Life Course	Temple of Consciousness, Aliyar.	12.06.2019	16.06.2019
35.	Digsilent Power Factory	Ramco Institute of Technology, Rajapalayam.	20.06.2016	22.06.2016
36.	FDP on Control System	Ramco Institute of Technology, Rajapalayam.	04.06.2016	10.06.2016
37.	Art of Counselling	Ramco Institute of Technology, Rajapalayam.	19.06.2018	21.06.2018
38.	Energy Conservation through Water conservation"	TANGEDCO (formerly TNEB)at Rajapalayam.	18.12.2014	-
39.	Energy conservation	TANGEDCO (formerly TNEB)at Rajapalayam.	19.12.2013	-
40.	Career Guidance Programme	Tamil Nadu Construction Workers Welfare Board at Virudhunagar.	12.07.2012	-
41.	Workshop on Solar Photovoltaics: Fundamentals, Technologies and Applications	NIT, Tiruchirappalli.	12.12.2011	22.12.2011
42.	Mission10X Certification Workshop	Kalasalingam University, Krishnankoil.	23.05.2011	24.05.2011

43.	Mission10X Faculty Empowerment Workshop	Kalasalingam University, Krishnankoil.	22.03.2011	26.03.2011
44.	TREC-STEP,	NIT, Tiruchirappalli	10.03.2011	-
45.	Faculty Advisor System, an orientation program organized for the new teachers by Centre for learning technologies,	CLT, Kalasalingam University Krishnankoil.	08.07.2010	-
46.	Art of Counseling	Kalasalingam University, Krishnankoil.	27.04.2010	28.04.2010
47.	Conducted Academic audit conducted upon Faculty members	PSNA College of Engineering & Technology, Dindigul.	09.09.2009	-
48.	Concepts of Lithium Ion Battery	Kalasalingam University, Krishnankoil.	03.09.2009	-
49.	Statistical Modeling and Simulation	Kalasalingam University, Krishnankoil.	01.06.2009	03.06.2009
50.	Mock Accreditation for Mechanical Engineering Department	Anand Institute of Higher Technology, Chennai.	07.04.2009	11.04.2009
51.	Engineering education in India? What it is & what it should be for the better employability of engineers	Hotel Sangam, Madurai.	23.03.2009	-
52.	Insight 09	Infosys Technologies Limited, Chennai	17.03.2009	18.03.2009
53.	11 th ISTE Annual convention of Tamilnadu & Pondicherry Section & State level seminar.	Mepco Schlenk Engineering College, Sivakasi	27.09.2008	-
54.	ISTE Conference on “Industrial expectations and Institutional preparations”	Sudharsan Engineering College, Sathiyamangalam, Pudukkottai District.	13.08.2008	14.08.2008
55.	LaTeX (document preparation system)	n-CARDMATH and ISTE staff chapter of Kalasalingam University, Krishnan Koil.	23.07.2008	-
56.	Weekly Seminars	Power and Energy system group, Department of Electrical and Computer Engineering	10.10.2006	29.09.2007

57.	Pre-conference tutorial on, National Power Engineering Conference-NPEC- 2005-Research topics in Power System Restructuring Environment	Department of EEE, Thiagarajar College of Engineering, Madurai.	04.12.2005	15.12.2005
58.	S.P.I.D.E.R. RTU 232 & MicroSCADA	ABB Training Centre, Bangalore.	15.04.2003	17.04.2003
59.	Training program on ETAP, PSCAD/EMTDC software	Kalasalingam University, Krishnankoil.	11.12.2002	13.12.2002
60.	Short term training Programme on “Genetic Algorithms in Engineering Applicatins	Coimbatore Institute of Technology, Coimbatore.	19.11.2001	02.12.2001
61.	Faculty development Programme for Computer simulation of Electrical Power System	Mepco Schlenk Engineering College, Sivakasi.	21.05.2001	22.05.2001
62.	Fuzzy Logic & Neural Network	Mohamed Sathak Engineering College, Kilakarai.	23.02.2001	24.02.2001
63.	AICTE-ISTE Winter School on Reliability Engineering and Applications to Power Systems (REAPS-2000)	J.N.T.U. College of Engineering, (Autonomous College), Anantapur, Andrapradesh.	11.12.2000	23.12.2000
64.	Two day Workshop on Neuro-Fuzzy-Genetic Systems	Kumaraguru College of Technology, Coimbatore –	03.03.2000	04.03.2000
65.	Faculty development Programme in Innovation and Entrepreneurship	Regional Engineering College, Tiruchirappalli	18.01.2000	02.02.2000

8. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Workshop on ‘Mastering Technical Writing: From Basics to Ethical AI and illustrations’	IE(I) – RIT	19.02.2024	-
2.	Online Guest Lecture on the topic “Model, simulate and analyze the performance characteristics of Lead Acid Batteries	IE(I) EE Student chapter	22.09.2023	-
3.	Three Day Faculty Development Program on “Design of Electric Vehicle using MATLAB Simulink”	RITELECTRA technical association IE(I) EE Student Chapter	24.07.2023	26.07.2023

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4.	International Conference on Smart Engineering for Renewable Energy Technologies (ICSERET 2023)	RIT	24.03.2023	25.03.2023
5.	UPSC and TNPSC Civil Services Examinations	RIT CGC	07.02.2023	-
6.	Srinivasa Ramanujan Mathematical Competition for School Students – 2022	ISTE	27.01.2023	
7.	Higher Education in Abroad	RIT CGC	01.10.2022	-
8.	Wind Power – Growth and Opportunities in India	RIT CGC	24.09.2022	-
9.	Vayumitra STTP - O&M Electrical & Instrumentation Technician – Wind Power Plant”	NIWE, MHRD, RIT	80 hours per batch	-
10.	Workshop on “TinyML for scientific use cases”	RIT	25.07.2022	-
11.	Book review session	RIT	Every Sunday	-
12.	FDP on Bio Inspired Optimization Techniques for Electrical Engineering Application on “ Genetic Algorithm (GA)with hands-on training”	RIT – Resource Person	21.02.2022	23.02.2022
13.	International Conference on Smart Technologies and Applications	AICTE, NABARD, DBT, BAI	11.03.2022	12.03.2022
14.	Hands on Training on "Project using Wireless devices	RIT	02.11.2021	-
15.	Webinar on placement opportunities for EEE students in "Core sector	RIT	24.09.2021	-
16.	Short Term Training Programme on Build a Team	RIT	23.10.2021	-
17.	Webinar on placement opportunities for EEE students in "Soft sector"	RIT	22.09.2021	-
18.	Webinar on opportunities in "Higher Education" for EEE students	RIT	21.09.2021	-
19.	"Opportunities for Higher Education in Abroad"	RIT CGC	20.09.2021	-

20.	"Huge Opportunities and Emerging Newer Scope for All Core Branch Talented Engineers in India	RIT CGC	29.06.2021	-
21.	Webinar on "How to crack TCS Ninja"	RIT	08.08.2021 3 Hours	-
22.	Seminar on Stress Management during COVID	RIT & Arvind Herbals	16.07.2021	-
23.	Online Hands on Training on the topic "Office Automation	RIT	04.06.2021	05.06.2021
24.	Online Course on "Sensors and Displays"	RIT	26.05.2021	27.05.2021
25.	Online Course on the topic "Fun with Electric Circuits"	RIT	12.05.2021 19.05.2021	13.05.2021 20.05.2021
26.	National Conference 2021	RIT	19.03.2021	20.03.2021
27.	Webinar on Empower Employment training programme on "How to Crack Aptitude"	Alumni Association	06.01.2021	-
28.	Webinar on the topic "Motivational Session on Placement Recruitment Drive"	IEEE Student Branchlike(I) Student Chapter	02.01.2021	-
29.	Group Discussion	RIT	31.12.2020 Half Day	-
30.	Webinar on Empower Employment training programme on "How to Crack Aptitude"	Association with IEEE Student Branch, IE(I) Student Chapter	29.12.2020	-
31.	Webinar on Empower Employment training programme on "How to Crack Aptitude"	Association with IEEE Student Branch, IE(I) Student Chapter	22.12.2020	-
32.	value added course on "EVA039 Virtual Instrumentation"	RIT	29.11.2020	05.12.2020
33.	Webinar on "Empower your skills on Electrical Machines"	ISIE-RITSAR	19.11.2020.	-
34.	Workshop on "Virtual Laboratory	RIT- ELECTRA, IEEE Student Branch, IE(I) EE	29.10.2020	-
35.	Webinar on "Innovative Ideas for Projects and Guidelines for MSME project proposal"	RIT-ELECTRA, IEEE Student Branch, IE(I) EE Student Chapter	11.10.2020	-

36.	Industry Lecture on "Energy Conservation Activities in Industry Premises	Energy Conservation Quality Circle (ECQC) in Association with RIT- EEE Alumni Association and RITIEEE Student Branch	04.10.2020 2 Hours	-
37.	Webinar on the topic "Digital Electronics"	RIT Training placement Centre, RITEEE Alumni Association, RIT - IE(I)	20.09.2020	-
38.	Technical Quiz on "Fundamentals of Electronics	RIT	15.09.2020 2 day	-
39.	Design Thinking and Innovation	RIT	29.08.2020 2 Hours	-
40.	Webinar on How to face an Interview and Technical requirement for different IT job portfolio	RIT (IE)	23.08.2020	-
41.	IWCSET 2020	RIT	29.06.2020	30.06.2020
42.	Interdisciplinary Webinar Series-II	RIT	08.06.2020	12.06.2020
43.	Interdisciplinary Webinar Series – I	RIT	01.06.2020	05.06.2020
44.	Research Article and Reference Management using Zotero	RIT- RC	29.05.2020	-
45.	Sensors and Displays	RIT	25.05.2020	26.05.2020
46.	How to formulate a Research Problem	RIT- RC	13.05.2020	-
47.	Fun with Electric Circuits	RIT	11.05.2020	13.05.2020
48.	Effective Use of Learning Management System	RIT- RC	09.05.2020	-
49.	Introduction to IPR	RIT- RC	23.03.2020	-
50.	One day workshop on Arduino (during TECHYUGA)	RIT	31.08.2019	-
51.	Energy Conservation Awareness Program	RIT-ECQC	29.08.2019	-
52.	Writing Strategy of Research Proposal	RIT- RC	12.01.2019	-
53.	one day workshop titled "MATLAB Onramp"	Ramco Institute of Technology	22.11.2018	-
54.	Faculty Development Training Programme on "Signals and Systems", organized by Dept. of ECE & EEE	Ramco Institute of Technology.	13.06.2018	18.06.2018

55.	AICTE sponsored Two-week Faculty Development Programme (FDP) on “Human Values and Professional Ethics”	Ramco Institute of Technology.	30.10.2017	12.10.2017
56.	Faculty Development Training Programme on IC 6501 - Control Systems	Centre for Faculty Development, Anna University, Chennai.	04.06.2016	10.06.2016
57.	One day National Level workshop on “Emerging Trends in Industrial Safety Engineering (ETISE-11)”	Kalasalingam University, Anand Nagar, Krishnankoil.	14.10.2011	-
58.	National Conference on Innovations in Engineering, Science and Technology - NCIEST 2015	Ramco Institute of Technology, Rajapalayam.	06.03.2015	07.03.2015
59.	International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems (ICAEES-2014)	Centre for Higher Education, Kumaracoil, Thuckalay, Kanyakumari.	22.04 2014	-
60.	International Conference on Power and Energy System	Velammal College of Engg.and Technology, Madurai.	20.12.2013	-
61.	International Conference on Power & Energy Systems	ICPES 2012, KLU	13.12.2012	15.12.2012
62.	National conference on “New and Renewable Energy” – NRE’12	Einstein College of Engineering, Tirunelveli.	25.02.2012	-
63.	National conference on Intelligent Computing in Communication and Automation”	Kalasalingam University, Krishnankoil.	08.04.2011	
64.	“National Conference on Power and Energy Systems” (NPES’11)	Kalasalingam University, Krishnankoil	18.03.2011	19.03.2011
65.	Technorions 1.0	Kalasalingm Institute of Technology, Anand Nagar, Krishnankoil	24.09.2010	-
66.	“National Conference on Power and Energy Systems” (NPES’10)	Kalasalingam University, Krishnankoil.	19.03.2010	20.03.2010
67.	National Conference on Recent Trends in Communication Systems – 2010 (NCRCS-2010)	Kalasalingam University, Krishnankoil.	11.03.2010	12.03.2010
68.	National level Technical symposium, ENITUXIA 2K10	Theni Kammavar Sangam College of Technology, Theni.	26.02.2010	-

69.	International Conference on Advanced Manufacturing and Automation(INCAMA 2009)	Kalasalingam University, Krishnankoil.	28.03.2009	-
70.	National level Technical Symposium, EUPHEMOZ-08	Kalasalingam University, Krishnankoil.	19.09.2008	-
71.	State level Technical Symposia	Arulmigu Kalasalingam Polytechnic College, Krishnankoil	30.08.2008	-
72.	National conference on "Power Electronics & Power Systems (MEPPCON'08)	Mepco Schlenk Engineering College, Sivakasi	14.03.2008	-
73.	National level Technical symposium, ELESYTEC'06	Thiagarajar College of Engineering, Madurai	20.09.2006	-
74.	National level students Technical symposia	P.S.R. Engineering College, Sevalpatti	07.09.2006	-
75.	National conference on "Exploring New Frontier in Power Conversion Technologies(PCTCON'06)	P.S.N.A. College of Engg. and Tech., Dindigul	26.04.2006	-
76.	National Conference on "Intelligent Computing in Communication and Automation" , (NCICCA-2005)	Kalasalingam University, Krishnankoil.	01.04.2005	02.04.2005

9. Online Courses

sno	Course title	University	Date
1.	Battery comparison manufacturing and Packaging	Arizona State University Offered through by Coursera	10.01.2024
2.	Differential Equation for Engineers	The Hong Kong University Science and technology	24.06.2023
3.	Getting Started with Deep Learning	DEEP LEARNING INSTITUTE	25.11.2022
4.	"Computational Thinking Training"	TCS EMPOWERS	10.10.2022
5.	Mathematics for Machine Learning: Linear Algebra	" Imperial College London and offered through Coursera"	25.02.2022
6.	MATLAB Onramp	Maths works Training Services	25.01.2022
7.	Mastering Programming with MATLAB	Vanderbilt University	16.09.2021

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8.	Linear Circuits 1: DC Analysis	Georgia Institute of Technology	21.09.2020
9.	Operations Research: an Active Learning Approach	The Hong Kong Polytechnic University	03.09.2020
10.	Transfer functions and Laplace transforms	MIT	01.09.2020
11.	Programming for Everybody (Getting Started with Python)	University of Michigan	31.07.2020
12.	Electric Cars: Introduction	Delft University of Technology	23.07.2020
13.	Electric Power Systems	The State University of Newyork	13.07.2020
14.	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	17.06.2020
15.	Introduction to Differential equations	MIT	26.12.2019
16.	Circuits and Electronics 2: Amplification, Speed, and Delay	MITx	31.05.2019
17.	Calculus 1C: Coordinate Systems & Infinite Series	MITx	12.05.2019
18.	Differential Equations: Fourier Series and Partial Differential Equations	MITx	21.12.2018
19.	Calculus 1B: Integration	MITx	09.03.2018
20.	Calculus 1A: Differentiation	MITx	10.09.2017
21.	Electricity and Magnetism, Part 1	Rice University	01.06.2017
22.	Introduction to Programming with MATLAB	Vanderbilt University	24.09.2016
23.	Circuits and Electronics 1: Basic Circuit Analysis	MITx	09.05.2016

10. Patents filed/awarded:

S. NO.	NAME OF THE MEMBERS	NAME OF THE PATENT	PATENT APPLIED NUMBER & DATE	CURRENT STATUS
1.	S, Periyanyagi S.Kannan B.Deepa Lakshmi, K., Karthikeyan and Moorthi Kanagaraj	Smart Uniform for Girl Children with Artificial Intelligence	202010289620 & October2020	Granted

2.	Ms.M.Kirubah Ms.K.Sivapriya Ms.G.Yashaswini Mr. E. Thangam Mr. N. Ganesh Dr. K. Karthikeyan Dr.S.Kannan	Method for Treating Waste Water in Dye Industry using Natural Filter	202041056624 & 28.12.2020	FER received and communicated
3.	Mrs. S. Jeyanthi Mr. A. Arun Kumar Dr. S. Kannan Dr. G. Kanthimathi Dr. O. Senthil Kumar	MultiTerminal CorrosioFree Service Line Clamp	202141004396 & 01.02.2021	Granted
4.	Ms. S. Jeya Shiny Suhel Ms. M. Ramya Ms. A. G. Vinataa Ms.S.Sharmila Kumari Mrs G.Sivapriya Mr.E.Thangam Dr.S.Kannan	Apparatus for Monitoring and Dispensing Medicine to Elderly Patients	202141004468 & 02.02.2021	FER received and communicated
5	Mr. D. Logesh Mr. C. Kaleeshwaran Mr. M. Arumugaanath Dr.S.Kannan Ms.S.Sharmila Kumari Mrs G.Sivapriya	Improving the Efficiency of Off-Grid Bifacial Solar Panel using Concentrator or Reflector System	202241018277 & 28.03.2022	Hearing over
6	P.Vishnuram S.Manikandan Dr.S.Kannan Mr.A.Guna, Mr.D.Karthik Prabhu,	State of charge based automatic charging controller with temperature monitoring system for Electric Vehicle batteries	202241043872 & 01.08.2022	FER received and communicated
7	Mr. K.K.Kishore Mr. K. Mubis Akash Varun Mr. R.K. Venkateshan Dr.S.Kannan Mrs G.Sivapriya Ms.S.Sharmila Kumari	An Internet of Things System for Rainwater Collection and Intelligent Farming	202441015382 & 01.03.2024	Applied

11. Membership in Professional societies

Life member in Indian Society for Technical Education (ISTE) (LM 28384), since 2000

ii) Institution of Engineers (India) Limited, Kolkata, India.

- ✓ Associate Member - (AM/088422-5), with effect from 22.01.2002 to 15.02.2009.
- ✓ Member - (M/138243/2 EL), with effect from 16.02.2009 to 19.09.2010.
- ✓ Fellow - (F-115344-3), with effect from 20.09.2010.
- ✓ Chartered Engineer (India), with effect from 26.06.2012.

Attached to Tamilnadu state centre and Madurai local centre

iii) Senior Member (No. 80760671) in Institution for Electrical and Electronics Engineers (IEEE), USA and Member, Power Engineering Society, IEEE, USA, since 2007. (M'2007, SM'2011)

iv) Senior Member in Computer Society of India – (Member # 00173867), since 1st Nov. 2008.

v) Fellow in Institution of Electronics and Telecommunication Engineers, New Delhi, India. (F-209728), with effect from 19th Jan. 2009.

vi) Life member (LM No. 30929), Systems Society of India (SSI), since Oct. 2010.

vii) Member (No. 1100321947) in IET, The Institute of Engineering and Technology, since Jan. 2014

12. Awards, Recognition & Achievements

- i) Special Appreciation for his Effort as Coordinator and Conducted SRMC (Srinivasa Ramanujam Mathematical Competitions for the School Students in Virudhunagar District for the Academic Year 2021-22.
- ii) An Subject for 100 percent Result in December – January 2019,
- iii) As, an advisor for RIT- IEEE Student branch, achieved an appreciation certificate award from IEEE Madras Section – Best Student branch for the year 2019
- iv) National rural merit scholarship in district level (Ramanathapuram) in 8th standard for excellent performance in studies. Received a financial assistance of Rs. 1000 per year for four years from 9th standard to 12th standard.
- v) Better Opportunities for Young Scientists In Chosen Areas of Science and Technology (BOYSCAST) fellowship for the year 2005-2006, awarded by Department of Science and technology (DST), Govt. of India, New Delhi and carried out research during 10, Oct. 2006 to 29, Sep. 2007, in “Multicriteria decision making including Genetic Algorithms and Neural networks” under the supervision of Dr. James D. McCalley, Professor, Electrical and Computer Engineering, Iowa State University, Ames, Iowa, USA.
- vi) Representative - from Research and Educational Institution – Demand Side Management Consultation Committee constituted by Tamilnadu Electricity Regulatory Commission for a period of 03 years (25.06.2014 onwards)