



SRM Valliammai Engineering College

(An Autonomous Institution)

SRM Nagar, Kattankulathur-603203, Chengalpattu District, Tamil Nadu

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Department of Electrical and Electronics Engineering

Personal Details

Name :	Dr. K. Elango		
Designation :	Professor and Head		
Educational Qualification :	M.E., Ph.D.		
Experience:	20 Years		
Area of Specialization :	Power Systems, Congestion Management, Solar Energy, Soft Computing Techniques		
Date of Joining :	17-07-2001		
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Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	EEE	Alagappa Chettiar College of Engineering and Technology, Madurai Kamaraj University	1998
2	M.E.	Power System	Annamalai University	2000
3	Ph.D.	Congestion Management in Deregulated Power Systems	CEG, Anna University, Chennai	2012

Professional Society Memberships

1. IE(I)-[The Institution of Engineers (India)]: **Fellow Member** : F-1233609, **Chartered Engineer**
2. ISTE-(The Indian Society for Technical Education): **Life Member** : LM36381
3. IEEE-(Institute of Electrical and Electronics Engineers) **Senior Member**: 91117713
4. ISC-(The Indian National Science Congress) **Annual Member**:A5584
5. IACSIT-(International Association of Computer Science and Information Technology) **Life Member**:80341718
6. IPA -(Integrated Publishing Association) **Life Member**:IPU110404-6485-95118

Publication Details

01-Jul-2021 to 30-Jun-2022

04-10 2021 - Journal

B. Mathi Bharathi and **Dr. K. Elango**, "Improving Voltage Stability of IEEE 14 Bus System Using STATCOM", Design Engineering, Vol 2021, No. 8, pp. 1790- 1799, 04-10-2021..

27-09-2021 to 01-10-2021 STTP / FDP

"Inculcating Universal Human Values in Technical Education" Organized by All India Council for Technical Education (AICTE)..

21-09-2021 to 27-09-2021 International Workshop

"International Workshop on Advance Statistical Data Analysis Using SPSS", Organized by Science Tech Institute, Lucknow

01-Jul-2020 to 30-Jun-2021

12-03 2021 - Journal

M. Santhakumar, S. Saran, S. Sathishkumar, M. Gunaseelan and **Dr. K. Elango**, "Voice Controlled Car

Using Android, Arduino & Bluetooth”, *International Journal of Electrical Engineering and Technology*, Vol. 12, No. 3, pp. 244-251, 12-03 2021.

12-03 2021 - Journal

R. A. Akilesh, M. Kavya, M. Dhanavardhan, P. HarishKumar and **Dr. K. Elango**, “Energy Management In Micro Grid Using Distributed Generator”, *International Journal of Electrical Engineering and Technology*, Vol. 12, No. 3, pp. 172-177, 12-03 2021.

16-02 2021 - Journal

R. Aravindhnan and **Dr.K.Elango**, “Compensating Voltage Drop Using Network Reconfiguration in Distribution System”, *International Journal of Electrical Engineering and Technology*, Vol. 12, No. 2, pp. 11-18, 16-02 2021.

03-10-2020- Journal

Elango. K and George Fernandez. S, "Dynamic Wireless Power Transfer for Electric Vehicle Charging Application", *Solid State Technology*, Vol. 63, No. 3, pp. 1363 - 1378, 03-10-2020.

03-10-2020- Journal

K. Elango and George Fernandez. S, "Modeling of an Efficient Electrical Power Generation System through Slow Moving Water", Vol. 63, No. 3, pp. 1180 - 1198, 03-10-2020.

03-10-2020- Journal

K. Elango and George Fernandez. S, "Power Generation from Air Conditioner (AC) Exhaust Fan", *Solid State Technology*, Vol. 63, No. 3, pp. 1175 - 1179, 03-10-2020.

03-10-2020- Journal

K. Elango and K. Selvakumar, "Parking Management System using Semi-active RFID Integrated with QR Code", *Solid State Technology*, Vol. 63, No. 3, pp. 1139 - 1144, 03-10-2020.

03-10-2020- Journal

K. Elango and K. Saravanan, "Comparative Analysis of Solar PV Array Reconfiguring Techniques under Partial Shading Condition", *Solid State Technology*, Vol. 63, No. 3, pp. 1109 - 1131, 03-10-2020.

01-12-2019 - Journal

K. Elango and George Fernandez. S, "Internet of Things (IoT) Based Automated Teller Machine Security System", *Solid State Technology*, Vol. 63, No. 3, pp. 816 - 825, 03-10-2020.

01-11-2020 - Journal

R. Aravindhnan and **Dr.K.Elango**, " Identification and Correction of Power Factor in HVAC System Using Synchronous Condenser", *Solid State Technology*, Vol. 63, No. 2s, pp. 4807 - 4815, 01-11-2020.

18-07-2020 – Webinar

K.Elango, has actively participated in webinar on, "Exploring the E-Learning Resources of IEEE". Organized by IEEE India Council. - Online

09-07-2020 – Short Course

K.Elango, has successfully completed a short course on, "Lear to Design your own Solar Home System". The certificate has been awarded as a part of Energy Literacy Drive of the Energy Swaraj Foundation in association with SRM Valliammai Engineering College. - Online

01-Jul-2019 to 30-Jun-2020

29-06-2020 – Webinar

K.Elango, has attended the webinar on, "Decoding the Life Cycle of Technology-Driven Sustainable Development Programmes", by the IEEE SIGHT – IEEE SSIT Madras Chapter. - Online

26-06-2020 – International Seminar

K.Elango, for participation in virtual international seminar on, "Cognitive Computing and ADHD", technically sponsored by the IEEE CIS Madras Chapter.- Online

01-04-2020 - Journal

S.Malathi and **K.Elango**, "Implementation of dead beat controller using Particle Swarm Optimization for software defined network", *Computer Communications, Elsevier, Science Direct*, Vol. 155, pp. 235-243, 1 April 2020, <https://doi.org/10.1016/j.comcom.2020.02.064>.

01-04-2020 - Journal

R. Rajesh, **K.Elango** and S. Rajanbabu, "Optimum Location and Sizing of DG with Network Reconfiguration in Distribution System", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, Vol. 9, No. 6, April 2020, pp. 195-200, ISSN: 2278–3075 (Online).

01-04-2020 - Journal

R. Sujitha, K. R. Santhya, A. Vigneshwari, V. Varsha and **Dr. K. Elango**, "Development of Charge Controller for Small Scale Wind Energy Conversion Systems", *International Journal of Scientific Research and Engineering Development*, Vol. 3, No. 2, pp 58-62, Mar- Apr 2020, ISSN : 2581-7175.

01-03-2020 - Journal

Abirami.A, Ahamed Nihaal R.S., Nandhini.V and **K.Elango**, "Modelling and analysis of permanent magnet

synchronous Generator for stand alone renewable energy generation", *International Research Journal of Engineering and Technology (IRJET)*, Vol. 07, No. 03, pp. 2472-2481, Mar 2020, E-ISSN: 2395-0056, P-ISSN: 2395-0072.

01-12-2019 - Journal

S. Tamizhvanan, **Dr.K. Elango**, "Improvement of Transient Stability in HVAC Transmission Line with Facts Controller", *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 11, No. 6, pp. 1220-1225, December 2019

01-12-2019 - Journal

R.Rajesh and **Dr.K.Elango**, "Optimization Techniques for Congestion Management using Facts Devices", *International Journal of Innovative Technology and Exploring Engineering*, Vol. 9, No. 2, pp. 2280-2285, December 2019.

01-Jul-2018 to 30-Jun-2019

01-03-2019 - Journal

V Abirami, M Harish, M Gnanasekar, G Arputharaj Fairyson and **Dr.K.Elango**, "Design and Implementation of Eco-Vehicle using Solar", *International Journal of Engineering Research & Technology*, Vol. 8, No. 3, pp. 20-23, March 2019.

01-02-2019 - Journal

S. Muralidharan, U. Nikeshkumar, V. Nithya, S. Udhayakumar and **Dr.K.Elango**, "Design and Implementation of Converters using MPPT in an Eco Vehicle", *International Research Journal of Engineering & Technology*, Vol. 6, No. 2, pp. 1-5, Feb 2019.

01-12-2018 - Journal

S.Tamizhvanan and **Dr.K.Elango**, "Reactive Power Compensation Technique in Transmission Lines Using Grenade Explosion Algorithm", *International Journal of Engineering Development and Research*, Vol. 6, No. 4, pp. 86-92, 2018.

01-Jul-2017 to 30-Jun-2018

05-05-2018 - Journal

M.C.Ramachandran¹ and **Dr.K.Elango**, "Improvement of Power Quality of Power System using Contingency Analysis", *International Journal of Engineering & Technology*, Vol. 7, No. 2.21, pp. 237-241, 2018.

01-03-2018 - Journal

R Santhoshkumar, N Santhoshkumar, J Sathiyarayanan, S Sivaraman and **Dr.K.Elango**, "Automatic Vehicle Recognition System In Parking Area Using Image Processing", *International journal for Research & Development in Technology*, Vol.9, No.3 ,pp.244-246, Mar-18.

01-03-2018 - Journal

Bhakyalakshmi.I, Deeban.V, Kiruthika.K, Meena.G, and **Dr.K.Elango**, "Implementation of DC-DC Converter for Cart using MPPT and Enhancement the efficiency of PV system by Partial Shading", *International journal for Research & Development in Technology*, Vol.9, No.3, pp.435-439, Mar-18.

14-11-2017 - Journal

Ramachandran.M.C. and **Dr.K.Elango**, "Minimize the Transmission Loss in Power System Expansion with Integrating Distributed Generation and Compensator", *International Journal of Trend in Research and Development*, Vol. 4, No. 6, Dec 2017.

01-Jul-2016 to 30-Jun-2017

01-07-2016 - Journal

Dr.K.Elango and Mahalakshmi S., "Reduction of Harmonics by using Single Stage Boosting Inverter with Trap-CL Filter for PV Applications", *IJSRD - International Journal for Scientific Research & Development*, ISSN (online): 2321-0613, Vol. 4, No. 9, pp.32-36, 2016.

01-Jul-2015 to 30-Jun-2016

01-05-2016 - Journal

Malar Magal T. and **Dr.K.Elango**, "Solar Power Generation with Quasi-Z-Source Inverter Using Plc Tracking", *International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE)*, ISSN: 0976-1353, Vol. 22, No. 2, pp. 312-316, May 2016.

01-05-2016 - Journal

Dr.K.Elango and Junia D., "Implementation of Paralleling of Inverters Technique on a PV Connected System", *International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE)*, ISSN: 0976-1353, Vol. 22, No. 2, pp. 348-352, May 2016.

01-03-2016 - Journal

Malar Magal T. and **Dr.K.Elango**, "Power Generation with QUASI-Z-Source Inverter Using ANFIS Based MPPT", *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Vol. 4,

No. 3, pp. 94-99, Mar 2016.

01-03-2016 - Journal

Junia D. and **Dr.K.Elango**, "Loss Reduction Using the Smart Power Flow Controller by Tap-Changing Algorithm of Sen Transformer", *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Vol. 4, No. 3, pp. 160-168, Mar 2016.

01-07-2015 - Journal

S.Surendar and **Dr.K.Elango**, "Photo Voltaic Structured With Multilevel Inverter Based SHAF for Harmonics to Improve Power Quality", *International Journal of Applied Engineering Research*, ISSN 0973-4562, Vol. 10, No. 23, PP. 20871-20876, 2015.

01-Jul-2014 to 30-Jun-2015

01-01-2015 - Journal

Geetha G. and **Dr.K.Elango**, "Fault Detection in Transmission Line by Magnitude and Phase Angle Extraction based on Neuro – Fuzzy Approach", *International Journal of Science and Research (IJSR)*, ISSN (Online): 2319-7064, Vol. 4, No. 1, pp.1187-1192, Jan 2015.

01-01-2015 - Journal

Bala V. and **Dr.K.Elango**, "Voltage Regulation of Non Linear Load Using STATCOM with Fuzzy Technique", *International Journal of Science and Research (IJSR)*, ISSN (Online): 2319-7064, Vol. 4, No. 1, pp. 1181-1186, Jan 2015.

16-12-2014 - Journal

Geetha G. and **Dr.K.Elango**, "Online Adaptive Fault Classifier Module in High Voltage Transmission Line Using Fuzzy", *Second IEEE National Conference on Emerging Trends in New and Renewable Energy Sources and Energy Management (NCET NRES EM- 2014)*, pp. 116-121, 16th DEC 2014

16-12-2014 - Conference

Bala V. and **Dr.K.Elango**, "Reactive Power Compensation of Non Linear Load Using STATCOM with Adaptive PI Controller", *Second IEEE National Conference on Emerging Trends In New and Renewable Energy Sources and Energy Management (NCET NRES EM- 2014)*, pp. 189-194, 16th Dec 2014.

01-Jul-2013 to 30-Jun-2014

01-11-2013 - Journal

Shanthi G. and **Dr.K.Elango**, "Optimal Power Scheduling of a Micro grid Using Distributed Generators", *International Journal of Engineering Science and Innovative Technology (IJESIT)*, Vol. 2, No. 6, pp.528-534, Nov. 2013.

01-03-2014 - Journal

Brindhya P. and **Dr.K.Elango**, "Transmission Congestion Management Considering Voltage Security Using Bender Decomposition", *International Journal of Engineering Science and Innovative Technology (IJESIT)*, Vol. 3, No. 2, pp. 38-47, March 2014.

01-02-2014 - Journal

Shanthi G. and **Dr.K.Elango**, "Power Scheduling Of a Micro grid Using Direct Search Method", *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, Vol. 3, No. 1, pp. 232-239, Feb 2014.

01-Jul-2012 to 30-Jun-2013

01-04-2013 - Conference

R. Selvi and **Dr.K.Elango**, "Transmission Cost Allocation Using MW-Mile Method for Indian Power Systems", *Proceedings of National Conference on Second National Conference on Power System Power Electronics and Drives (PSPED-2013)*, pp. 89-95, Organized by DEEE of SSN College of Engineering.

01-Jul-2011 to 30-Jun-2012

01-08-2011 - Journal

Elango, K., Paranjothi, S. R. and Sharmeela, C. "Transmission Congestion Management in Restructured Power Systems by Generation Rescheduling and Load Shedding Using Rule based OPF", *European Journal of Scientific Research*, Vol. 57, No. 3, pp. 380-390, 2011.

01-08-2011 - Journal

Elango, K. and Paranjothi, S. R. "Congestion management in restructured power systems by FACTS devices and load shedding using extended Quadratic interior point method", *International Journal of Applied Engineering Research*, Vol. 1, No. 4, pp. 767-776, 2011.

01-08-2011 - Conference

Elango, K. and Paranjothi, S. R. "Congestion Management in Deregulation by Generation Rescheduling and Load Shedding Using Evolutionary Programming Based OPF", in *Proceedings of International Conference on Mechanical and Electrical Technology, (China)*, Vol. 1-3, pp. 399-403, 2011.

25-07-2011 - Journal

Elango, K. and Paranjothi, S. R. "Power Transmission Congestion Management in Restructured Power System by FACTS devices, Generation Rescheduling and Load Shedding Using Evolutionary Programming", *European Journal of Scientific Research*, Vol. 56, No. 3, pp. 376-384, 2011.

01-07-2011 - Journal

Elango, K. and Paranjothi, S. R. "Transmission Congestion Management Restructured Power System by Generation Rescheduling and Load Shedding using Evolutionary Programming based OPF", *International Journal of Electrical Engineering*, Vol. 4, No. 5, pp. 625-634, 2011

01-07-2011 - Journal

Elango, K. and Paranjothi, S. R. "A Novel Approach for Power Transmission Congestion Management using Generation Rescheduling and Load Shedding by Multi Objective Particle Swarm Optimization", *CiiT International Journal of Artificial Intelligent Systems and Machine Learning*, Vol. 3, No. 7, pp. 447-452, 2011.

01-07-2011 - Conference

Elango, K. and Paranjothi, S. R. "Transmission Congestion Management in Restructured Power Systems by FACTS Devices and Generation Rescheduling Using Evolutionary Programming", in *Proceedings of International Conference on Computational Intelligence and Computing Research*, pp. 71-75, 2011.

01-Jul-2010 to 30-Jun-2011

11 04 2011 - National Conference

Elango, K., Paranjothi, S. R. "Congestion Management in Restructured Power Systems by FACTS Devices and Load Shedding Using Evolutionary Programming Technique", *Proceedings of National Conference on Modeling, Simulation, Design and Experimental Study of Electrical System – MOSDES 2011*. April 11, 2011, Organized by DEEE, B.S. Abdur Rahman University, pp 114-120.

11 03 2011 to 12-03-2011 National Conference

Elango, K., Paranjothi, S. R. "Transmission Congestion Management using Generation Rescheduling and Load Shedding by Interior Point Method", *Proceedings of National Conference on New and Renewable Energy-2011 (NCNRES-11)*. March 11-12, 2011, Organized by DEEE of Aarupadai Veedu Institute of Technology, Vinayaka Missions University, pp 218-222.

01-07-2010 - Conference

Elango, K. and Paranjothi, S. R. "Congestion Management using Generation Rescheduling and Load Shedding by Evolutionary Programming", in *Proceedings of the International Conference on Power, Control and Embedded System*, pp. 21-26, 2010.

01-Jul-2009 to 30-Jun-2010

02-04-2010 to 03-04-2010 National Conference

Elango, K., Paranjothi, S. R. "Intelligent Load Allocation in Power System", *Proceedings of National Conference on Emerging Technologies in Electrical Engineering (NCEEE-10)*, Organized by DEEE of Valliammai Engineering College, pp 63-68.

01-Jul-2008 to 30-Jun-2009

12-02-2009 - Conference

Elango, K., K. Vijayakumar and Dr. S. R. Paranjothi, "Transmission Congestion Management Using Evolutionary Programming Technique", *Proceedings of National conference on Emerging Trends in Electrical Engineering (ETEE 2009)*, Organized by DEEE of Sri Sai Ram Engineering College, pp122-129.

01-Jul-2007 to 30-Jun-2008

01-04-2008 - Conference

K. Srinivasan, A. Gopi and Elango, K., "Analysis of Reduced Topology for A Low-Cost 4-Switch 3-Phase Inverter-Fed PMSM Drive", *Proceedings of National Conference on Computational Intelligence in Power apparatus and Systems (CIPS-2008)*, Organized by DEEE of SRM Engineering College, pp. 461-464.

01-Jul-2005 to 30-Jun-2006

01-04-2006 - Conference

Elango, K. and Paranjothi, S. R. "Multi Area Economic Dispatch using Evolutionary Programming", *Proceedings of National Conference on Computational Intelligence in Power apparatus and Systems (CIPS-2006)*, Organized by DEEE of SRM Engineering College, pp 55-61.

28-11-2005 to 17-12-2005 Conference

Soft Computing Techniques For Power Systems, Sponsored by UGC, SRM University

02-11-2010 - Workshop

Recent Trends in Evolutionary Computation in Electrical Engineering, B.S.Abdur Rahman University

26-05-2010 to 01-06-2010 STTP / FDP

Special Electrical Machines, Sponsored by Anna University, Valliammai Engineering College

30-07-2009 - Workshop

Basics of Graphical System Design using labVIEW, Sponsored by IEEE, Valliammai Engineering College

26-05-2008 to 04-06-2008 STTP / FDP

Soft Computing skills Applied to Electrical Engineering & ISTE-NSTEDB Faculty Awareness Camps on Entrepreneurship, Sponsored by AICTE & ISTE, SRM University

25-04-2008 - STTP / FDP

Electro Magnetic Theory, Sponsored by IEEE, Valliammai Engineering College

18-04-2008 to 19-04-2008 National Conference

Computational Intelligence in power apparatus and system, IEEE, SRM University

03-04-2008 - STTP / FDP

Advanced Process Control & VLSI Design, Valliammai Engineering College

27-07-2007 to 28-07-2007 Workshop

Modeling of FACTS Devices and its Applications, SRM University

10-08-2005 - STTP / FDP

Recent Trends In Utilization of Non – Conventional Energy Sources, Sponsored by AICTE & ISTE, Valliammai Engineering College

07-06-2004 to 08-06-2004 STTP / FDP

A U Powerlab software modules for the laboratory course EE435-Power System Simulation Laboratory, Anna University

09-02-2004 to 27-02-2004 STTP / FDP

Remote Sensing And Geographic Information System, Anna University

16-06-2003 to 27-06-2003 STTP / FDP

Modern Electrical Transmission And Distribution Systems, Sponsored by AICTE & ISTE, Annamalai University

25-11-2002 to 30-11-2002 STTP / FDP

Advanced Power Systems, Sponsored by ISTE, SRM University