

Dr. P. Kanakasabapathy
Associate Professor,
Electrical and Electronics Engineering,
Amrita Vishwa Vidyapeethem
Amritapuri Campus
Amritapuri, Clappana P. O.
Kollam – 690525. Kerala, India

Email: sabapathy@am.amrita.edu
kanakasabapathy_p@yahoo.com
Phone: 9048796416

List of Journals:

Year of Publication	Title
2018	Bharath K. R., H, C., and Dr. P. Kanakasabapathy, “Control of bidirectional DC-DC converter in renewable based DC microgrid with improved voltage stability”, International Journal of Renewable Energy Research-IJRER, vol. 8, 2018.[Abstract]
2017	G. Menon, Ratheesh, M., Menon, G. S., S, G., and Dr. P. Kanakasabapathy, “Hybrid converter to supply DC and AC Loads using Tapped Boost Topology”, International Journal of Engineering & Technology, 2017.
2014	Dr. P. Kanakasabapathy, “Dynamic Self Scheduling of pumped storage power plant in Energy and Ancillary Service Markets Using Sliding Window Technique”, World Academy of Science Engineering and Technology, vol. 1, 2014.
2013	K. P., Dr. P. Kanakasabapathy, and G., R., “Fault Analysis and Digital Protection of Busbars Using Curvelet Transform Based Approach”, International Journal of Scientific and Engineering Research (ICGITS 2013), vol. 4, 2013.[Abstract]
2013	Dr. P. Kanakasabapathy, “Economic impact of pumped storage power plant on social welfare of electricity market”, International Journal of Electrical Power and Energy Systems, vol. 45, pp. 187–193, 2013.[Abstract]
2010	Dr. P. Kanakasabapathy and K Swarup, S., “Bidding Strategies for Pumped Storage Plant in Pool-Based Electricity Market”, Energy conversion and Management, vol. 51, pp. 572–579, 2010.[Abstract]

Year of Publication	Title
2010	Dr. P. Kanakasabapathy and K Swarup, S., “Evolutionary tristate PSO for strategic bidding of pumped-storage hydroelectric plant”, IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews, vol. 40, pp. 460–471, 2010.[Abstract]
2009	Dr. P. Kanakasabapathy and K Swarup, S., “Market operations in future Indian restructured power system scenario”, International journal of energy technology and policy, vol. 7, pp. 78–94, 2009.[Abstract]
2009	Dr. P. Kanakasabapathy and Swarup, K. S., “Three-tier Market Model for Restructuring Indian Power Sector”, Journal of The Institution of Engineers (India) - EL, vol. 89, pp. 36-39, 2009.[Abstract]

List of Conference Papers:

Year of Publication	Title
2018	H. Choutapalli, Bharath K. R., and Dr. P. Kanakasabapathy, “A Review on Advanced MPPT methods for SPV system under Partial Shaded Conditions”, in 2018 International Conference on Control, Power, Communication and Computing Technologies (ICCPCT), 2018.
2018	A. Rajendran, Nair, N., and Dr. P. Kanakasabapathy, “Inverter Control Strategies in Solar PV Systems with Adaptive DC Link Technology - A Review”, in 2018 International Conference on Control, Power, Communication and Computing Technologies (ICCPCT), 2018.[Abstract]
2018	A. Ayyappan, Milan, S., Sreejith Kailas T., and Dr. P. Kanakasabapathy, “Design of Hybrid Powered Automated Compressed Stabilized Earth Block (CSEB) Machine”, in 2018 3rd International Conference for Convergence in Technology (I2CT), Pune, India, 2018.[Abstract]
2018	Bharath K. R., Kodoth, R., and Dr. P. Kanakasabapathy, “Application of Supercapacitor on a Droop-Controlled DC Microgrid for Surge Power Requirement”, in 2018 International Conference on Control, Power, Communication and Computing Technologies (ICCPCT), 2018.
2017	K. Venugopal and Dr. P. Kanakasabapathy, “Three port multi winding flyback converter for DC microgrid applications”, in 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy), Kollam, India, 2017.[Abstract]
2017	B. Shyam and Dr. P. Kanakasabapathy, “Renewable energy utilization in India — policies, opportunities and challenges”, in 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy), Kollam, India, 2017.[Abstract]

2017	R. P. Nair and Dr. P. Kanakasabapathy, "Control of a DC microgrid under dynamic load condition", in 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy), Kollam, India, 2017.[Abstract]
2017	K. Venugopal and Dr. P. Kanakasabapathy, "Multiport interleaved converter for DC microgrid applications", in 2017 Innovations in Power and Advanced Computing Technologies (i-PACT), Vellore, India, 2017.[Abstract]
2017	V. Valsan and Dr. P. Kanakasabapathy, "Smart energy management and control of stand-alone pico-hydro systems", in 2017 Innovations in Power and Advanced Computing Technologies (i-PACT), Vellore, India, 2017.[Abstract]
2017	A. S. Anoop and Dr. P. Kanakasabapathy, "Review on swarm robotics platforms", in 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy), Kollam, India, 2017.[Abstract]
2017	V. Valsan and Dr. P. Kanakasabapathy, "Design and implementation of smart energy management system for stand-alone micro-hydro systems", in 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy), Kollam, India, 2017.[Abstract]
2017	Bharath K. R., Student, A. D., and Dr. P. Kanakasabapathy, "A simulation study on modified droop control for improved voltage regulation in DC microgrid", in 2017 International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), Kannur, India, 2017.[Abstract]
2016	K. P. Savitha and Dr. P. Kanakasabapathy, "Multi-port DC-DC converter for DC microgrid applications", in 2016 IEEE 6th International Conference on Power Systems, ICPS 2016, 2016.[Abstract]
2016	S. Vishnupriya and Dr. P. Kanakasabapathy, "Fault Ride Through for a DC ring bus microgrid", in 2016 International Conference on Energy Efficient Technologies for Sustainability, ICEETS 2016, 2016, pp. 11-16.[Abstract]
2016	Bharath K. R. and Dr. P. Kanakasabapathy, "Implementation of enhanced perturb and observe maximum power point tracking algorithm to overcome partial shading losses", in 2016 International Conference on Energy Efficient Technologies for Sustainability, ICEETS 2016, 2016, pp. 62-67.[Abstract]
2016	J. Aswani and Dr. P. Kanakasabapathy, "Protection of a low-voltage DC ring microgrid system", in 2016 International Conference on Energy Efficient Technologies for Sustainability, ICEETS 2016, 2016, pp. 17-22.[Abstract]
2015	Dr. P. Kanakasabapathy and Vivek, P. V., "Single Phase Hybridised Seven-Level Inverter", in IEEE 2 nd International Conference on Innovations in Information Embedded and Communication Systems (ICIIECS 2015), Coimbatore, India, 2015.[Abstract]
2015	S. R and Dr. P. Kanakasabapathy, "Switched-Capacitor/Switched-Inductor Cuk-Derived Hybrid Converter for Nanogrid Applications", in IEEE 4 th International Conference on Computation of

	Power, Energy, Information and Communication (ICCPEIC 2015), Melmaruvathur, India, 2015.[Abstract]
2015	Dr. P. Kanakasabapathy and Mohan, M., “Digital protection scheme for microgrids using wavelet transform”, in IEEE International Conference on Electron Devices and Solid-State Circuits (EDSSC 2015), Singapore, 2015.[Abstract]
2015	Dr. P. Kanakasabapathy, Gopal, V. K., V, A., Mohan, A., and Reddy, E. H. S., “Energy management and control of solar aided UPS”, in Advancements in Power and Energy (TAP Energy), 2015 International Conference on, Kollam, India, 2015.[Abstract]
2015	R. Sarath and Dr. P. Kanakasabapathy, “Hybrid converter based on ĆUK topology to supply both AC and DC loads”, in Proceedings of IEEE International Conference on Technological Advancements in Power and Energy, TAP Energy 2015, Kollam, India, 2015, pp. 387-392.[Abstract]
2015	P. V. Vivek and Dr. P. Kanakasabapathy, “Multistring seven-level inverter for standalone photovoltaic systems”, in Proceedings of IEEE International Conference on Technological Advancements in Power and Energy, TAP Energy 2015, 2015, pp. 409-414.[Abstract]
2015	S. M. Ramesh, Smrithi, S., AkhilRajkoti, P., Dr. P. Kanakasabapathy, A.N. Ravishankar, Pal, S., and Poornachandran, P., “Development of SCADA automated 33kV substation model as testing platform”, in IEEE International Conference on Industrial Instrumentation and Control (ICIC 2015), Pune, 2015.[Abstract]
2014	Dr. P. Kanakasabapathy and Radhika, S., “Dynamic Self-Scheduling of Pumped-Storage Power Plant in Energy and Ancillary Service Markets Using Sliding Window Technique”, in 18th International Conference on Electrical and Power Engineering ICEPE 2014 Singapore, 2014.
2014	Dr. P. Kanakasabapathy and I. Rao, V. Vardhan, “Control strategy for inverter based micro-grid”, in IEEE Power and Energy Systems Conference: Towards Sustainable Energy (PESTSE 2014), Bangalore, 2014.[Abstract]
2014	Dr. P. Kanakasabapathy and Pillai, A. G., “Power processor for microbial fuel cells”, in 2014 Power and Energy Systems Conference: Towards Sustainable Energy, PESTSE 2014, Bangalore, 2014.[Abstract]
2013	G. Ravikrishnan, Kiran, P., and Dr. P. Kanakasabapathy, “Internal fault discrimination in power transformers using curvelet transform”, in 4th International Youth Conference on Energy IYCE 2013, Siofok, Hungary, 2013.[Abstract]
2009	Dr. P. Kanakasabapathy and K Swarup, S., “Impact of Pumped Storage on Spot Pricing of Real and Reactive Power in Restructured Power Market”, in National Conference on Technological Advances and Computational techniques in Electrical Engineering (TACT 2009), NIT, Hamirpur, 2009.
2009	Dr. P. Kanakasabapathy and K Swarup, S., “Pumped storage bidding and its impacts in combined pool-bilateral market”, in Third International Conference on Power Systems ICPS'09., IIT, Kharagpur, 2009.[Abstract]

2008	Dr. P. Kanakasabapathy and K Swarup, S., “Optimal bidding strategy for multi-unit pumped storage plant in pool-based electricity market using evolutionary tristate PSO”, in IEEE International Conference on Sustainable Energy Technologies, ICSET 2008, Singapore, 2008.[Abstract]
2008	Dr. P. Kanakasabapathy and K Swarup, S., “Optimal Bidding Strategies for Pumped Storage Plant in Pool-Based Electricity Market”, in Fifteenth National Power Systems Conference (NPSC), IIT, Bombay, India, 2008.[Abstract]
2006	Dr. P. Kanakasabapathy and K Swarup, S., “Power Modulation Controls through HVDC Links”, in National Conference on Intelligent Integrated Control and Automation (IICA 2006), Coimbatore, India, 2006.
2005	R. Jayaparvathy, Sureshkumar, G., and Dr. P. Kanakasabapathy, “Performance evaluation of scheduling schemes for fixed broadband wireless access systems”, in IEEE 7th Malaysia International Conference on Communications, 13th IEEE International Conference on Networks (MICC-ICON 2005), Kuala Lumpur, Malaysia, 2005.[Abstract]

Book Chapter:

Year of Publication	Title
2013	P. Kiran, Ravikrishnan, G., and Dr. P. Kanakasabapathy, “Digital protection and transient analysis of power system using curvelet transform based approach”, in IEEE 2013 Tencon-Spring, 2013.