Curriculum Vitae

Brief Profile: P. Srinivasa Rao Nayak received B.Tech. degree in Electrical and Electronics Engineering from Nagarjuna University-Guntur AP, M. Tech. degree in Energy Systems from JNTUCE-JNTU Hyderabad, and the Ph.D. degree from the Department of Electrical Engineering, National Institute of Technology, Tiruchirappalli. Currently, he is an Associate Professor with the Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India. His research interests include Power Electronic systems, Plug-in & Wireless EV Charging, Biologically Inspired Optimization Algorithm Techniques and Electric Vehicle Dynamics.



Office details:

1. Name: Dr. P. Srinivasa Rao Nayak

2. Designation: Associate Professor

3. Office Address: EEE dept. NIT Trichy-15

4. Telephone (Direct): 0431-2503269

Mobile (Optional): 7708243070

5. Email (Primary): psnayak@nitt.edu

6. Field(s) of Specialization: Power Electronics Systems

7. Employment Profile:

Job Title	Employer	From	To
Assistant Professor	JBREC, Hyderabad	1/09/2005	18/07/2008
Assistant Professor	NIT, Trichy	28/07/2008	12/03/2018
Assistant Professor (Grade-I)	NIT, Trichy	13/03/2018	20/09/2022
Associate Professor	NIT, Trichy	21/09/2022	Till date

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Subjects
PhD	NITT	2014	Power Electronic Systems
M. Tech	JNTU Hyderabad	2006	Energy Systems
B. Tech	Nagarjuna University	2001	Electrical and Electronics Engineering
Intermediate	Intermediate board of education	1997	Maths, Physics & Chemistry
SSC	Secondary board of Education	1995	

9. Academic/Administrative Responsibilities within the Institute:

Position	Faculty/Department/ Centre/Institution	From	То
Ph.D and M.Tech	Centre/msutudon		
Admission Co-	EEE Department	2008	2009
ordinator	EEE Department	2006	2009
NBA Co-ordinator	EEE Department	2010	2011
budget Co-ordinator	EEE Department	2010	2011
Staff Advisor for	EEE Department	2010	2011
EEE	EEE Bepartment	2010	2011
Association			
PAC Chairman for	EEE Department	2011	2012
VIII	222 2		
Semester B.Tech			
EEE			
Budget Co-	EEE Department	2011	2012
Ordinator	•		
Staff Advisor for	EEE Department	2012	2013
EEE	-		
Association			
NBA Co-Ordinator	EEE Department	2013	2014
Staff Advisor for	EEE Department	2013	2014
EEE Association			
Time table Co-	EEE Department	2014	2015
Ordinator			
BoS Co-Ordinator	EEE Department	2014	2015
Time table Co-	EEE Department	2015	2016
Ordinator			
Staff Advisor for	EEE Department	2015	2016
EEE			
Association			2010
Temporary faculty	EEE Department	2017	2018
recruitment			
committee	FFF Day ()	2017	2020
Admission	EEE Department	2017	2020
Coordinator (PhD &			
MS)	EEE Danagharant	2010	2020
Warden, NITT	EEE Department	2018	2020
Hostels Associate Dean	Administrative Office -Academic	2020	Till date
Associate Deall	Administrative Office -Academic	2020	1 m date

10. Details of Academic Work:

(i) Curriculum Development:

S.No	Institute	Duration	Title	
			1. Prepared the Lab Manual for "Electrical DC Machines	
1	NITT	2008-09	Lab". 2. Prepared the transparencies for teaching "Non-Conventional Energy Sources" and distributed the copies of the same to students.	

2	NITT	2009-10	 Preparation of Lab Manual for "Power Electronics Lab". Prepared the transparencies for teaching "Electrical
			and Electronics Measurements" course for B.Tech
			students
			and distributed the copies of the same to students.
			1. Preparation of Lab manual for "Applied Electrical
			Engineering Lab".
3	NITT	2010-11	2. Preparation Power point presentation for "Air pollution,
			water pollution and global warming" for teaching the
			subject "Energy and Environmental Engineering".
			1. Preparation of Lab Manual for "Power Electronics
			Lab".
4	NITT	2011-12	2. Preparation of Lab manual for "Applied Electrical
			Engineering Lab".
5	NITT	2012-13	1. Preparation of Lab Manual for "Power Electronics
	11111	2012 13	Lab".
			1. Preparation of Lab Manual for "Power Electronics
			Lab".
6	NITT	2013-14	2. Preparation Power point presentation for teaching the
			subject "Industrial Electronics" and "Utilization of the
			Electrical Energy".

$(ii) \ \underline{Courses \ taught \ at \ Postgraduate \ and \ Undergraduate \ levels:} \\$

S.No.	Instit ute	Duration	Title
1.	NITT	2008-09	Theory: 1. Non-Conventional Energy Sources (M.Tech II Semester -EEE) 2. Electrical and Electronics Measurements (B.Tech IV Semester –EEE) Laboratory: 1. Power Electronics Lab (B.Tech VI Semester – EEE) 2. Electrical DC Machines Lab (B.Tech IV Semester – EEE) 3. Electronics Devices lab (B.Tech IV semester –EEE)
2.	NITT	2009-10	 Theory: Energy and Environmental Engineering (I year B.Tech) Electrical and Electronics Measurements (IV Semester – EEE) Laboratory: Power Converters Lab (M.Tech I Semester – EEE)
3.	NITT	2010-11	Theory: 1. Utilization of Electrical Energy (VIII Semester – EEE) 2. Electrical Electronics Measurements (IV Semester – EEE) Laboratory: 1. Power Electronics Lab (VI Semester – EEE)

4.	NITT	2011-12	 Theory: Energy and Environmental Engineering (I year B.Tech-ECE) Applied Electrical Engineering (IV Semester – Mechanical) HVDC Transmission (M.Tech – II Semester-EEE) Laboratory: Power Electronics Lab (VI Semester – EEE) Electrical Machines Lab (B.Tech IV Semester – Mechanical)
5.	NITT	2012-13	Theory: 1. Industrial Electronics (III year B.Tech-EEE-VI-Semester) 2. Applied Electrical Engineering (II Semester – Mechanical) 3. Power electronic Drives (M.Tech-II Semester-EEE) Laboratory: 1. Power Electronics Lab (VI Semester – EEE)
б.	NITT	2013-14	Theory: 1. Industrial Electronics (III year B.Tech-EEE-VI-Semester) 2. Applied Electrical Engineering (II Semester - Mechanical) 3. Utilization of Electrical Energy (VIII Semester - EEE) Laboratory: 1. Power Electronics Lab (VI Semester - EEE)
7.	NITT	2014-15	Theory: 1. Design with PIC microcontroller (IV year B.Tech-EEE-VII-Semester) 2. Applied Electrical Engineering (II Semester – Mechanical) 4. Utilization of Electrical Energy (VIII Semester – EEE) Laboratory: 1. Power Electronics Lab (VI Semester – EEE)
8.	NITT	2015-16	Theory: 1. Design with PIC microcontroller (IV year B.Tech-EEE-VII-Semester) 2. Applied Electrical Engineering (II Semester – Mechanical) 3. Power electronic Drives (M.Tech-II Semester-EEE) Laboratory: 1. Power Electronics Lab (VI Semester – EEE)
9.	NITT	2016-17	Theory: 1. Basic Electrical and Electronics Engineering (I Semester (A sec.) – Production dept.) 2. Renewable Power Generation Technologies (M.Tech (PE) -I Semester-EEE) Laboratory: 1. Power Converters Laboratory (M.Tech (PE) -I Semester-EEE)

10.	NITT	2017-18	 Theory: Power system Economics and Control systems (EE401)
11.	NITT	2018-19	 Theory: Renewable Power Generation Technologies (EE673)-PG Sem-I Electric & Hybrid Vehicle (EE687)-PG Sem-II Vehicular Electrical Power systems (EEPE34 & EEH016)-Minor VIII Sem UG Laboratory: Power Electronics Lab (EELR15)-PG Sem-II.
12.	NITT	2019-20	Theory: 1. Circuit Theory (III Semester (A sec.) – EEE dept.) 2. Electric Vehicle Technology & Mobility (EVTM) (PG-Semester-II) 3. Electrical Machines (minor course) Laboratory: 1.EEIR16-Internship coordinator.
13.	NITT	2020-21	 Theory: Control Systems (VII Semester) – EEE dept.) Basic Electrical & Electronics Engineering (III-Semester)-Production Engineering. Electric Vehicle Technology & Mobility (EVTM) (PG-Semester-II) Power Electronics Drives (PG)
14.	NITT	2021-22	 Theory: Renewable power Generation Technologies (RPGT)-PG-Semester-I Basic Electrical & Electronics Engineering (III-Semester)-Mechanical Engineering. Electric Vehicle Technology & Mobility (EVTM) (PG-Semester-II) Laboratory:

(iii) Projects guided at Postgraduate level:

S. No	Institute	Year	Name of the Student	Title of the Project
1.			L. Lileendra Kumar	Transient Analysis of Grid Connected PV Generation System
2		2009-10	W. I. M. A.	Modeling and Simulation of Load connected PV Inverter
2.			Krishna Murthy CH	Design and Implementation of HAWT With Battery Charge Controller Circuit
				Variable Speed Drive Modeling and Control of Wind Turbine

3.			M.Venkatesh naik	5. Design and Implementation of Cuk Buck- Boost Converter
4			M. Canalyouth	6. A New Solar Energy Conversion Scheme Implemented Using Grid –Tied Single Phase
4.			M.Sreekanth	7. MATLAB Simulation of MPPT Control for Panels Connected To DC-Dc Converter
5			Domara V	8. Modeling And Simulation of a PV Charge Control System Using SEPIC Converter
5.			Paparao. K	9. Design And Implementation of A PV Charge Control System Using SEPIC Converter
6	NITT	2010-11	V. Cuhrahmanyam	10. Three Phase Bidirectional AC-DC Converter with Constant Power Factor
6.			K. Subrahmanyam	11. One Cycle Controlled Bidirectional DC-AC Converter with Constant Power
7.		2011-12	Achich ranian raut	12. Design and Implementation of an Analog PID Controller Using Conventional Methods for Output Voltage Regulation in Boost Type DC- DC Converter
7.		2011-12	Ashish ranjan rout	13. Design and Implementation of an Analog PID Controller Using Conventional Methods for Output Voltage Regulation In Buck Type DC- DC Converter
8.			Avinash Atla	14. Study of Variable Speed Domestic Fan Behavior with A Faulty Speed Regulator
δ.			Avinasn Aua	15. A New Scheme for Dynamic Braking of Capacitor – Run Induction Motors
9.		2012-13	N. Ravi	16. Studies on Control Aspects of Washing Machine Motors 17. Power Transfer and Stability Enhancement by Simultaneous AC/DC Power Flow in EHV Transmission Line
			G.Venkatesh	18. Application of Conventional Controller Design Methods of Feedback Controller for Buck – Boost type DC-DC Converter
			G. Venkatesh	19. Maximum Power Point Tracking of Solar PV Systems Under Partial Shading Condition Using Optimization Techniques
			Srinivasa Reddy	20. Design and Implementation of Dual Input converter inverter fed single phase capacitor run induction motor drive
			G G	21. Design and Implementation of Dual Input converter inverter fed motor drive system incorporating solar charge controller
				22. Application of firefly and particle swarm optimization algorithms for solar cell parameter identification
				Parameter racintinuation

10.		2013-14	Bondu Vijaya Kumar	23. Design and development of reversible speed scheme for PV powered PMDC motor
				24. Output power regulation of LED lighting scheme using Particle Swarm Optimization
			Duggineni Giribabu	25. Design and development of Dual Input LED lighting system
				26. Optimal power management scheme for PMSG based wind generation system
	NITT		Arif Shaik	27. Design of feedback controller for PV fed induction motor
11.		2014-15	Ayaah V D	28. Application of Firefly algorithm for illumination control of LED lighting system
			Ayoob.V.P	29. Application of harmony search algorithm for illumination control of LED lighting system
			Vatto	30. Electric vehicle route optimization under different electricity price profiles using particle SWARM optimization
12.		2015-16	Katta Venkateswarlu	31. Electric vehicle route optimization under different electricity price profiles using ANT colony optimization
			Bukke Vishnu Bharath	32. Power quality analysis of inverter-based power source for ARC welding process
				33. Design and Analysis of EV Battery Charge Control for Dual Side LCC Compensated IPT System.
13.		2016-17	Utkarsha Barate	34. Design and Analysis of Series-Series and Dual Side LCC Compensation Topologies for
	- -			Inductive Power System.
14.		2017-18	Radhakrushna Dey	35. Performance analysis of different coupled coil structures with misalignments for wireless EV battery charging
	1			36. performance of mutual inductance between
15.			Akash Kumar	multi-transmitter and receiver coil using FEM. 37. Implementation and investigation of MI between circular shape multi and single coil pad.
13.		2018-19		38. Implementation and Analysis of PV and grid power based H-bridge inverter for
	NITT		Damalla Ekalavya	high frequency load applications. 39. Modeling and analysis of mutual inductance
				between rectangular structured coupled coils
				with different misalignments for the WPT system.
16.		2019- 2020	N Laxman	40. Design and Simulation of Dual input Buck- Boost type DC-DC Converter for battery charging application in EV'S.

		Ch. Aravind Goud	41.Design to improve the energy efficiency in wastewater treatment plants using energy efficient motors and VFD.
17.	2020- 2021	Navodit Mehata	42. Dual Input WPT+PV array buck boost converter for an EV battery charging using ANN.
18.	2021- 2022	Jithender singh	43. Controller design for Buck- Boost type dual input DC-DC Converter for battery charging of Electric Vehicle.
	2021-22	Shubham Kapoor	44. Modeling and analysis of hybrid charging stations for Electric vehicles using Bidirectional DC-DC converter.
19.	2022-23	Saurav Kumar	45. Simulation based real time performance analysis of EV drive-train system
	2022-23	Rahul Kumar	46. Grey-Wolf Algorithm based feedback controller design for Multi-Input EV Charger.
	2022-23	Mayuri Dongre	47. Development, Analysis of Hybrid and Bidirectional EV charger.

(iv) $\underline{Other\ contribution(s):}$

> Patents: (Filed)

Sl.No.	Description	Filing details	status
	Name of applicant: BHEL, Trichy	Date of Filing: 25/11/2014	
1	Title: A Battery less Solar Photovoltaic Power Generation System to Supply Electrical Power during all Seasons to the Utilities Throughout the Day.	Application No: 1231/KOL/2014	Filed
	Inventors: Kevin Ark Kumar, Sishaj P. Simon, K. Sundareswaran, Srinivasa Rao Nayak , TT Anilkumar, C.H. Ramjeth Malani & Ratchanniya Samuel		
	Name of applicant: BHEL, Trichy	Date of Filing:	
2	Title: A system to determine a day-ahead loading pattern of heavy machineries in industries and proactive control of peak	19-03-2016	
2	load overshoot. Inventors: Muhammad Ehsan	File No.:	Filed
	Rajith, Sishaj P Simon, K. Sundareswaran, P. Srinivasa	201631009629	

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	Rao Nayak, Rohit Rajan		
	Eapen, M. Senthil kumar,		
	Kevin Ark Kumar		
	Name of applicant: NIT,	Date of Filing:	
	Tiruchirappalli	02/11/2017	
3	Title: A System for Efficient	File.No:	Filed
	Energy Extraction from an	201741039045	
	Existing Solar Photovoltaic		
	System		
	Inventors: Sishaj P Simon, K.		
	Sundareswaran,		
	P. Srinivasa Rao Nayak		
	Name of applicant: NIT,	Date of Filing:	
	Tiruchirappalli	17/09/2020	
	Title: SINGLE AXIS SOLAR	File.No:	Filed
4	TRACKING SYSTEM and	202041040239	
	METHOD THEREOF		
	Inventors: Sishaj P Simon, K.		
	Sundareswaran,		
	P. Srinivasa Rao Nayak		

Patents: (Obtained)

Sl.No.	Description	Filing	status
		details	
	Name of applicant: NIT, Tiruchirappalli	Date of Filing: 10/07/2014	
1	Title: A System with Multiple transmission Loss Co-efficient for Dynamic Economic Generator Dispatch.	Application No: 3413/CHE/201 4	Granted on 23/11/2021 Patent No: 382380
	Inventors: Sishaj P Simon, K Sundareswaran, Srinivasarao Nayak , C H Ram Jethmalani		
	Name of applicant: NIT,	Date of Filing:	
	Tiruchirappalli	05/04/2016	
2	<i>Title:</i> A method of differential relay for power	File No:	Granted on 28/10/2021
	transformer protection using DSP processor	201641012033	Patent No: 380676
	Inventors: N. P. Padhy, Sishaj P Simon, M. Senthil kumar, K. Sundareswaran, P. Srinivasa Rao Nayak		

11. Details of Major R&D Projects:

S.No.	Title of Project	Funding	D	Ouration	Cost in	Status
D.110.	The of Project	Agency	Fro	T.	Lakhs	Ongoing
			m	То		Complet ed
1	Design and Optimization of Feedback Controller for Boost type dc-dc Converters Using Artificial Immune System	Central Power Research Institute (CPRI)	201 4	2017	8.34	Complet ed
2	Design, Development and Analysis of bio- inspired control strategies for Stand-alone solar powered LED lighting systems	MHRD Communication - NITT/SCSP- TSP	201 4	2017	44.74	Complet ed
3	Smart Maximum Demand Control Through Modern Algorithms	Central Workshop Southern Railways (Golden Rock Workshop) Trichy	201 3	2014	1	Complet ed
4	The Design and Development of Multi Input 10 KVA Online UPS	BHEL, Trichy	201 4	2015	15	Complet ed
5	Implementation and Analysis of coupled coils at different structures with misalignments for WPT EV Battery charging	DST- SERB	2019	2021	28.46	Complet ed
6	Design, Implementation and Analysis of Wireless power transfer system and PV System for battery charging of passenger e-Bus	CPRI Bangalore	2019	2021	32.40	Complet ed
7	A 10Kw Pilot PV Plant Based on Single Axis Solar Tracking System Using Second Lever Principle	DST- SERB	2021	2023	42.3	On going

12. Number of PhDs guided:

				Role		
Sl. No	Roll No	Name of the Ph.D scholar	Sole Supervisor (No Co- supervisor/ No External supervisor)	Supervisor	Co- supervis or	Year of Award
1	407114056	Dharavath Kishan	Yes	-	-	Completed (2019)
2	407116051	Gundugulla Peddanna	Yes	-	-	Thesis about to submit
3	407117052	Kamalapathi K	Yes	-	-	Completed (2022)
4	407117004	T Manikandan	-	-	Yes	Thesis Submitted
5	407118001	Anna Selvaraj B	Yes	-	-	Ongoing
6	407119004	Kannan M	-	-	Yes	Ongoing
7	407120053	Ganesh babu Mattaparthi	Yes	-	-	Ongoing
8	407321001	Ayush Kumar Laad	Yes	-	-	Ongoing
9	407920051	Annamalai	-	-	Yes	Ongoing

13.Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role):

Date(s)	Title of Activity	Level of Event (Internatio nal/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organize d by	Venue
8 th – 9 th August	Right to Information Act, 2005 and Role of Information Officer	National	Participant	NIT- Trichy	NIT-Trichy
12 th – 14 th November 2008	National Workshop on Power Electronics	National	Participant	NIT- Trichy	NIT-Trichy
20 Nov 2008	Awareness programme On Intellectual property Rights	National	Participant	NIT- Trichy	NIT-Trichy
21 st – 27 th August 2008	Instructional Design and Delivery system	National	Participant	NIT- Trichy	NIT-Trichy

-					
15th – 27th June 2009	Engineering practices On Fuzzy Logic, Neural Networks and Hybrid Intelligent Systems	National	Participant	NIT- Trichy	NIT-Trichy
29 Apr 2009	Patent Information	National	Participant	Bharathid asan Universit y	Bharathidasan University
04 May 2009	Power Electronic Simulation – SEQUEL	National	Participant	NIT- Trichy	NIT-Trichy
12-22 Dec 2011	Solar Photovoltaics': Fundamentals, technologies and Application	National	Participant	NIT- Trichy	NIT-Trichy
3-4 Feb 2012	Supercritical Technology for power sector	National	Participant	ESCI Hyderaba d	ESCI Hyderabad
22-23 June 2012	PIC Micro controller applications in Power electronics circuits	National	Participant	NIT- Trichy	NIT-Trichy
05 Jan 2013	MSP 430 Microcontroller Based System Design"	National	Participant	NIT- Trichy	NIT-Trichy
16 Dec 2012	Resonant and soft switching power conversion and three more topics	National	Participant	PEDES- 2012 Bangalore	PEDES Bangalore
28-29 April 2015	Conclave on academic reforms (CAR- 2015)	National	Participant	NIT- Trichy	NIT-Trichy
17 Sep 2019	Supporting Student learning and wellbeing crafting the new millennial	National	Participant	Ideal river view resort	Tanjore
23-25 Feb 2019	Faculty development Programmed (FDP)	National	Participant	NIT- Trichy	NIT-Trichy

14. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convener):

Title of Activity	Level of Event (Internat ional/ National/ Local)	Date (s)	Role	Venue
One day workshop on "Application of Biologically Inspired Algorithms for Power System and Power Electronics Engineering" Under the Self- Financed Category	National	28 th July 2012	Coordinator	NIT Trichy
One Day Workshop on Fuzzy Systems and Applications Under the Self- Financed Category	National	13th July 2013	Coordinator	NIT Trichy
Three Day Conclave on Academic Enhancements in Electrical Engineering (Power System and Power Electronic Streams) Under TEQIP-II	National	8th -10th November 2013	Coordinator	NIT Trichy
One Day Workshop on Particle Swarm Optimization, Applications and Implementation on a Microcontroller Under self-finance category	National	8th March 2014	Coordinator	NIT Trichy
Two Day Workshop on Implementation of Firefly Algorithm in SCILAB and µ- Controller Under self-finance category	National	10-11th October 2014	Coordinator	NIT Trichy
One-week Workshop on Recent Developments in Electrical Power Engineering Under TEQIP II	National	29 th Aug – 3 rd Sept 2016	Coordinator	NIT Trichy

"Recent Advances in E-Mobility and Charging"	National	19 th July– 23 rd July 2021	Coordinator	NIT Trichy
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15. Invited Talks delivered:

Topic	Date	Inviting Organization
Faculty Development	2021	Dept. of EEE, NIT Trichy
Programme on Electric		
Vehicles		
One Week AICTE	2020	Dept. of EEE, Anurag University, Hyderabad
Sponsored Online STTP		
AICTE Sponsored Six	2020	QIS College of Engineering and Technology,
Days Online Short-Term		Ongole
Training Programme		
(STTP		
Faculty Development	2019	VIT Vellore
Program		
CE & QIP	2019	IIT Bombay
Workshop	2019	Ideal River View Resort, Tanjore

16.Membership of Learned Societies:

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Society for Technical Education (ISTE)	LM80445/2011
Life Member	Solar Energy Society of India (SESI)	LM/1435/2010
Life Member	System Society of India (SSI)	LM31941/2011

17. Academic Foreign Visits:

Country	Duration of Visit	Programme
Singapore	2017	International conference on electrical and Electronic Engineering (ICEEE)
Portugal	2018	Proceedings of 4th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS)
Kaulalumpur, Malaysia	2019	ICECIE (IEEE)

(A) Referred Research Journals:

S.No	Author(s)	Title of Paper	Journal	Volum e (No.)	Page. no	Ye ar	Role
1	K.Sundareswa ran, P.S.Nayak	Ant colony- based feedback controller design for soft- starter fed induction motor drive	Applied Soft Computing, Elsevier. https://dl.acm.org/d oi/10.1016/j.asoc.2 011.12.012	Vol.12, No. 5	1566- 1573	May 2012	Correspon ding- Author
2	Kinattingal Sundareswara n, Vadakke Devi, SelvakumarSa nkar, PanugothuSr inini vasa Rao Nayak, Sankar Peddapati	Feedback controller Design for a Boost Converter Through Evolutionary Algorithms	IET Power Electronics. https://ieeexplore.i eee.org/stamp/sta mp.jsp?tp=&arnu mber=67835 43	Vol. 7, No. 1	1-11	Oct 2013	Co-Author
3	K.Sundares waran, Devi V, S. Sankar, PSR Nayak, A. Chandrasek ar	Feedback controller Design for a Buck Converter Through Evolutiona ry Algorithms	Australian Journal of Electrical & Electronics Engineering.https:/ /ieeexplore.ieee.org /stamp/stamp.jsp?t p=&arnumber=678 3543	Vol.10 , No.4	459- 466	2014	Co- Author
4	K.Sundareswa ran, P.S.R Nayak	Particle Swarm Optimization Based Feedback Controller Design for Induction Motor Soft- Starting	Australian Journal of Electrical & Electronics Engineering. http://www.ijareeie.c om/upload/2016/rapi deet/28_pso%20base d%20soft%20startin g%20of%20inductio n%20motor.pdf	Vol 11, No.1	55-63	March 2014	Correspo nding- Author
5	Sundareswara n, K. and Nayak, P.S.R.	Design of Feed Back Controller for Soft- starting Induction Motor Drive	Int. J. Industrial Electronics and Drives, Inder Science Publisher. https://www.inders cience.com/info/ina rticle.php?artid=59	Vol. 1, No. 2,	111– 120	March 2014	Correspon ding- Author

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		System	<u>229</u>				
		Using					
		Genetic					
		Algorithm				1	
6	K.Sundareswa	Development	International				
	ran,	of an	Review of				
	P.S.R.Nayak	Improved	Automatic Control,	37.1.77		March	Correspon
	andA.Chandra	Particle	Praise worthy	Vol. 7,	156-	2014	ding-
	Sekh ar,	Swarm	prize.	No. 2	165		Author
	Sekii ui,	Optimization	https://www.praise				
		(PSO) and its	worthyprize.org/js				
		Application	m/index.php?journa				
		to Induction	<u>l=ireaco&page=arti</u>				
		Motor Soft-	cle&op=view&path				
		Starting	<u>%5B%5D=14117</u>				
7	K.Sundareswa	Inverter	International				
	ran,	Harmoni	Journal of				
	P.S.R.	c	Advanced Trends			Febru	
	Nayak, P.	Eliminati	in Computer	Vol. 3,	342 -	ary	Co-Author
	Sankar and	on	Science and	No.1	348	2014	
		Through	Engineering.				
	V.Vigneshku	Flower	http://citeseerx.ist.p				
	mar	Pollinatio	su.edu/viewdoc/do				
		n	wnload?doi=10.1.1				
		Enhanced	<u>.644.7176&rep=rep</u>				
		Genetic	<u>1&type=p</u> <u>df</u>				
		Algorithm					
8	K.Sundareswa	Enhanced	IEEE Transactions				
	ran,	Energy	on Sustainable				
	P. Sankar,	Output	Energy			Janua	
	P.S.R.	From a PV		Vol. 6,	198-	ry	Co-Author
	Nayak, S.P.	system		No. 1	209	2015	
		under partial					
	Simon and S.	shaded					
	Palani,	conditions					
		through					
		artificial					
		Bee					
		Colony					
9	K.Sundareswar	Developmen	IEEE Transactions				
	an,	t of an	on Industrial				
	V.	improved	Informatics	Vol.		Febru	
	Vigneshkumar,	P&O	https://ieeexplore.ie	12,	187-	ary	Co-Author
	P. Sankar, S.P.	Algorithm	ee.org/stamp/stamp.j	No.1	200	2016	
	Simon, P.S.R.	Assisted	sp?tp=&arnumber=7				
	Nayak, and S.	Through a	<u>332 776</u>				
	-	Colony of					
	Palani	Foraging Ants					
		for MPPT in					
		PV System					
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10	Kinattingal	Optimizati	Electrical Power				
	Sundareswara	on of	Components and	Vol.7,			
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24 (Q2)	K. Kamalapat hi, P. Srinivasa Rao Nayak, Vipul kumar tyagi	Development and analysis of three-coil wireless charging system for electric vehicles	International Journal on circuit theory and application (Wiely Publication)	Vol.50, Issue 1	249- 271	2022	Co-Author
25 (Q4)	K.Kamalap athi, P.srinivasa Rao Nayak , Vipul kumar tyagi	Analysis of Dual Input Buck-Boost Converter for Solar PV Integration with Wireless Electric Vehicle	Distributed Generation & Alternative Energy Journal (SPECIAL ISSUE: Energy Access & Off-Grid Systems for Residential Microgrids/Nanog)	Vol.31, Issue 1	73-102	2022	Co-Author

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3	K. Sudareswaran, Hariprasad B, P. Sankar, P.Srinivasa Rao Nayak and S. Sankar	A Voltage Constrained Time-Sharing Switching Scheme for Dual Input Buck Converter	IEEE International conference on Power Electronics, Drives and Energy Systems (PEDES)	CPRI, Bangalore	2012	Co- Author
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11	Dharavath Kishan, P.S.Nayak	Wireless Power Transfer Technologies for Electric Vehicle Battery Charging- A State of The Art	SCOPES- 2016	Centurion University, Odisha.	2016	Co- Author
12.	K.Sundareswara n, V. Vigneshkumar, Sishaj P Simon, P Srinivasa Rao Nayak	Gravitational search algorithm combined with P&O method for MPPT in PV systems	Thirteenth IEEE international India Conference (INDICON 2016)	Trivandrum , India	2016	Co- Author

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20	Srinivasa Rao Nayak Panugothu, Peddanna Gundugallu, K Kamalapathi, B Krishna Naick	Analysis of mutual inductance between multisingle coupled coils at square structure using fem	ICECIE (IEEE)	Kaula lumpur, Malasiya,	2019	First Author
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22	Dasarath Sahu, P.Srinivasa Rao Nayak	Design and Analysis of solar e- Rickshaw Charging system	Electric drive system	Hyderabad	2021	Co-author
23.	P. Srinivasa Rao Nayak, K. Kamalapati; N. Laxman; Vipul Kumar Tyagi	Design and Simulation Of BUCK-BOOST Type Dual Input DC-DC Converter for Battery Charging Application in Electric Vehicle	2021 International Conference on Sustainable Energy and Future Electric Transportation (SEFET)	Hyderabad	2021	First Author

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(C) Books/Monographs:

Author(s)	Title of	Name of	Year of	ISSN/ISBN
	Book/Monograph	Publishers	Publicati	Number
			on	
Dr. P. Srinivasa	Book Title : Power	CRC press	Accepted	
Rao Nayak, Dr.	Electronics for Electrical	Taylor &	for	
K. Kamalapthi	Vehicles and Energy	Francis	Publication	
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	Book Chapter Title:			
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