

Faculty Profile

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5. Office Address:E71, Electrical engineering department, BIT Sindri.
6. Qualification:

S. No	Degree(UG, PG, PhD)	Specialization	Institute
1	PhD	Power Systems/ Electrical Engineering	IIT (ISM), Dhanbad
2	MTech	Power Systems/ Electrical Engineering	IIT (BHU), Varanasi
3	BTech	Electrical and Electronics Engineering	JNTU Kakinada

7. Area of Specialization: Power Systems-Electrical Engineering

8. PhD (Guided): 0

9. Subjects Taught:

I) UG:- Signals and Systems; Electrical Machines

II) PG:- Mathematical methods in control

10. Professional Experience:

I) Teaching Experience:

Sl. No.	Position held	Name of Organization	from	to
1	Assistant Professor	BIT Sindri	05-01-2018	Till present
2	Assistant Professor	Adamas University	26-06-2016	03-01-2018
3	Assistant Professor	GITAM university	14-07-2012	25-06-2016

II) Research Experience:

Sl. No.	Position held	Name of Organization	of	from	to

III) Industrial Experience:

Sl. No.	Position held	Name of Organization	of	from	to

11. Publications:

I) International Journal:

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1	Amended GWO approach based multi-machine power system stability enhancement	<i>ISA Transactions</i>	190	2021	152-174
2	A novel hybrid algorithm for solving emerging electricity market pricing problem of microgrid.	<i>International Journal of Intelligent Systems</i>	36/2	2021	919-961
3	Power and energy system oscillation damping using multi-verse optimization.	<i>SN Appl. Sci</i>	3/3	2021	1-18
4	Anderson Corollary Based on New Approximation Method for Continuous Interval Systems.	<i>IEEE Access</i>	9	2021	43601-43610
5	Indirect torque observer-based sensor-less efficient control of bearingless switched reluctance motor using global sliding mode and square currents control method.	<i>Archives of Control Sciences</i>	31/1	2021	53-80
6	An Improvement of Gamma Approximation for reduction of Continuous Interval Systems	<i>Archives of Control Sciences</i>	31/2	2021	347-373
7	"Design of Capacitive Bridge Fault Current Limiter for Low-Voltage Ride-Through Capacity Enrichment of Doubly Fed Induction Generator-Based Wind Farm	<i>Sustainability</i>	13/12	2021	6656
8	Enhancing Global Maximum Power Point of Solar Photovoltaic Strings under partial Shading Conditions using Chimp Optimization Algorithm	Energies	14	2021	4086
9	Allocation of real power generation based on computing overall generation cost: an approach of salp swarm algorithm	<i>Archives of Electrical Engineering</i>	70/2	2021	337-349
10	Seven Level Voltage Source Converter based Static Synchronous Compensator with a Constant DC Link Voltage	Applied Sciences	EA	2021	-
11	A novel hybrid AGWO-PSO algorithm in mitigation of power network oscillations with STATCOM	<i>Numerical Algebra, Control & Optimization</i>	EA	2021	-
12	A novel approach of intensified barnacles mating optimization for the mitigation of power system oscillations.	Concurrency and Computation: Practice and	EA	2021	-

		Experience			
13	An approach to solve OPF problems using novel hybrid whale and sine cosine optimization algorithm.	<i>Journal of Intelligent & Fuzzy Systems</i>	EA	2021	-
14	Wind integrated power system to reduce emission: An application of Bat algorithm.	<i>Journal of Intelligent & Fuzzy Systems</i>	EA	2021	-
15	Principal component analysis technique for early fault detection.	<i>Journal of Intelligent & Fuzzy Systems</i>	EA	2021	-
16	Lockdown impact on power systems based on experience curves and complementary bottom-up assessments during COVID-19	<i>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i>	EA	2021	-
17	A Framework for H2/H ∞ Synthesis in Damping Power Network Oscillations with STATCOM	<i>Iran J Sci Technol Trans ElectrEng</i>	44/2	2020	927-948
18	Modeling and control of dynamic battery storage system used in hybrid grid.	<i>Energy Storage</i>	2/3	2020	146
19	Controller parameter tuning of a single machine infinite bus system with static synchronous compensator using antlion optimization algorithm for the power system stability improvement.	<i>Advanced Control for Applications</i>	2/3	2020	45
20	Global Sliding-Mode Suspension Control of Bearingless Switched Reluctance Motor under Eccentric Faults to Increase Reliability of Motor.	Energies	13/20	2020	-
21	A hybrid modified grey wolf optimization-sine cosine algorithm-based power system stabilizer parameter tuning in a multimachine power system.	<i>Optim Control Appl Meth</i>	41/4	2020	1143-1159
22	An intelligent EGWO-SCA-CS algorithm for PSS parameter tuning under system uncertainties.	<i>International Journal of Intelligent Systems</i>	35/10	2020	1520-1569
23	Parameter extraction of solar photovoltaic module by using a novel hybrid marine predators – success history based adaptive differential evolution algorithm	<i>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i>	EA	2020	-

II) International Conference :

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages
1	PSO Based Optimal Reactive Power Dispatch for the Enrichment of Power System Performance	Recent Advances in Power Systems, Springer	-	2021	267-276
2	Enhancing Oscillation Damping in a Power Network Using EWOA Technique	<i>Advances in Smart Grid Automation and Industry 4.0</i>	-	2021	27-36
3	Improved Moth Flame Optimization in Systematization of STATCOM and PSS.	<i>Advances in Smart Grid Automation and Industry 4.0,</i>	-	2021	481-491
4	Selection and Scheduling of DG Sources for Environomic Operation Management of a Microgrid System	Lecture Notes on Data Engineering and Communications Technologies	78	2021	-
5	Interval Modeling of Riverol-Pilipovik Water Treatment Plant and Its Model Order Reduction.	<i>Computing Algorithms with Applications in Engineering</i>	-	2020	361-367
6	Optimal Power Flow with BAT algorithm for a Power System to reduce transmission line losses using SVC.	<i>IEEE International Conference on Emerging Frontiers in Electrical and Electronic</i>	-	2020	1-5

		Technologies			
7	Application of a Novel Political Optimization in Optimal Parameter Design of PI Controller for the BLDC motor Speed Control.	2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies	-	2020	1-6
8	BAT algorithm based Optimal Power Flow for a Power System consisting of Wind Power plant and Static VAR Compensator.	Michael Faraday IET International Summit	-	2020	7-12
9	Optimal placement of shunt capacitor with VCPI to improve voltage profile using Mi power.	IOP Conf. Ser.: Mater. Sci. Eng	981	2020	42061
10	Optimal Parameter Tuning of Power Oscillation Damper by MHHO Algorithm.	2019 20th International Conference on Intelligent System Application to Power systems	-	2019	1-7
11	Application of Modified Harris Hawks Optimization in Power System Oscillations Damping Controller Design.	2019 8th International Conference on Power Systems	-	2019	1-6
12	Estimation of sensitive node for IEEE-30 bus system by load variation,	2014 International Conference on Green Computing Communication and Electrical Engineering	-	2014	1-4
13	Analysis of weak AC system interface with multi-infeed HVDC	2012 International Conference on Computing, Electronics and Electrical Technologies	-	2012	138-144
14	Performance evaluation of HVDC system with ESCR variation.	2012 Students Conference on Engineering and Systems	-	2012	1-6
15	HVDC converter control performance during faults	IEEE-International Conference On Advances In Engineering, Science And Management	-	2012	386-392

III) National Journal :

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages

IV) National Conference :

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages

12. Patents (Filed / Granted)

S. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Status (Filed / Granted)

13. Conference/ Workshop/Seminar/ Organized

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Name of Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses	No. of Participants

14. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title of Symposium/ Workshop/Seminar/ Short – term Courses	Organizing Institute	Date
1	Virtual Labs	Jharkhand Education grid, RUSA Jharkhand, JUT & BIT Sindri jointly	29 June, 2020
2	Electric Vehicles: New Trends and Technologies	ABES, Lucknow	22- 26 June, 2020
3	Role of Artificial Intelligence in Future Microgrid Control"	Silicon Institute of Technology	17-20 June, 2020
4	Outcome based education software	Vmedulife	11 June, 2020
5	Recent Trends In Electrical Engineering	Vishnu Institute of Technology, Bhimavaram	08-12 June, 2020.
6	MATLAB for deep learning	AISSMS	30 May, 2020
7	Intelligent control systems	NHCE, Bangaluru	29 May, 2020
8	Power quality issues and challenges in microgrid	GVP, Visakhapatnam	28 May, 2020
9	Open internet Resources	RCE, W.G, A. P.	10 May, 2020
10	International Symposium on 5G & Beyond for rural upliftment	IIT(ISM) Dhanbad	8-9 Feb 2020
11	Multiphysics simulation for Teaching and research	BIT Sindri	22 Nov 2019
12	Entreneurship Summit 2019	BIT Sindri	15-17 Nov 2019
13	Advancement and application of soft computing in Electrical Systems	Electronics and ICT Academy, NIT Patna & Department of Electrical Engineering by MeitY, Govt. of India at B.I.T. Sindri.	5 days 13 th -17 th July 2018
14	Advanced industrial automation using PLC & SCADA, jointly organised by Dept. of ECE and Dept. of EE, BIT Sindri	BIT Sindri	5 days, 1 Nov - 5 Nov, 2018

15	AI & Machine Learning	Electronics and ICT Academics, Govt. of India at B.I.T. Sindri	5 days 17 th - 21 st Dec 2018
16	Wireless & Mobile Communication	Electronics and ICT Academy, NIT Patna & Department of Electrical Engineering by MeitY, Govt. of India at B.I.T. Sindri.	5 days 3rd-7th Dec 2018
17	TEQIP III NPIU sponsored Faculty Induction Program	IIT Madras	5 days 31 st Jan2018 to 4 th Feb 2018
18	TEQIP III NPIU sponsored Awareness Workshop on Outcome – based Education (OBE)	BIT Sindri	2 days 16 – 17 March,2018
19	5G Communications	Electronics and ICT Academics by MeitY, Govt. of India at B.I.T. Sindri	11-15 June 2018
20	TEQIP III NPIU sponsored Faculty Induction Program	IIT KGP	5 days 6 th -10 th Feb 2018

15. Administrative Position Held: NA

S. No.	Position Held	From (date/month/year)

16. Award / Recognition Bestowed on Faculty (State / National / International)

NA

17. Members of Professional Bodies:NA