



Dr. Pushpender Singh

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Address of Communication

Asst. Professor, EE
Govt. Women Engineering College, Ajmer
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Research Interests:-

Power System; Active Distribution Network; Renewable Energy Sources; Distributed Energy Sources, Optimization Techniques; Artificial Intelligence; Energy Losses in Network.

Major Publications:-

Journals:-

- **An application of nature inspired algorithm based dual-stage frequency control strategy for multi micro-grid system** Balvender Singh , S.K. Bishnoi , Mandeep Sharma , Pushpendra Singh , Sandeep Dhundhara ,Ain Shams Engineering Journal , Elsevier , International , 0 () , PP. 1-16 , 16/01/2023 , Indexed in SCI , 2090-4479 , DOI <https://doi.org/10.1016/j.asej.2023.102125> , SCI
- **Intelligent fuzzy logic base slide mode control methodologies for pick and drop operation of robotic manipulator** , Md. S. Qureshi;P.Singh; P.Swankar ,Int. J. Computational Vision and Robotics , Inderscience Enterprises Ltd , International , 5 () , PP. 549-571 , 05/05/2022 , Indexed in Scopus
- **Modified Moth-Flame optimization for strategic integration of fuel cell in renewable active distribution network**, Pushpendra Singh, S. K. Bishnoi ,Electric power system and research , Elsevier , International , 197 (000) , PP. 1-18 , 25/04/2021 , Indexed in SCI , 0378-7796 , DOI <https://doi.org/10.1016/j.epsr.2021.107323> , CITATIONS
- **Hybrid elephant herding and particle swarm optimizations for optimal dg integration in distribution networks**, Pushpendra Singh, N.K. Meena, S.K. Bishnoi, B.Singh, M.Bhadu ,Electric Power Components and Systems , International , Taylor and Francis , 1532-5008 , <https://doi.org/10.1080/15325008.2020.1797931> , 28/08/2020 , 48 , 3 , 1-15 , SCI .
- **Modified african buffalo optimization for strategic integration of battery energy storage in distribution networks** , Pushpendra Singh ; Nand K. Meena ; Adam Slowik ; Shree Krishna Bishnoi ,IEEE Access , International , IEEE , 2169-3536. , 10.1109/ACCESS.2020.2966571 , 01/14/2020 , 00 , 00 , 000 , SCI.
- **Moth search optimization for optimal ders integration in conjunction to oltc tap operations in Distribution systems**, Pushpendra singh SK Bishnoi NK Meena ,IEEE systems Journal , International , IEEE , 19328184 10.1109/JSYST.2019.2911534 , 04/10/2019 , SCI.
- **Multi criteria decision making monarch butterfly optimization for optimal distributed energy resources mix in distribution network**, P. Singh, S. K. Bishnoi, N. K. Meena, J. Yang, and E. Vega-Fuentes Elsevier, Applied Energy Journal , SCI.

Conferences:-

- **Simultaneous integration of renewable power generation and battery energy storage in distribution networks**, Pushpendra singh SK Bishnoi NK Meena and Jin Yang , 2019 8th International Conference on Power Systems (ICPS) , International , IEEE , 978-1-7281-4103-9 , DOI: 10.1109/ICPS48983.2019.9067684 , 22/12/2019.
- **Greedy strategy and self-adaptive crossover operator based monarch butterfly optimization for simultaneous integration of renewables and battery energy storage in distribution systems**, Pushpendra singh SK Bishnoi NK Meena B. Singh J Yang ,International Conference on Renewable Power Generation 2019 , International , IET , , 10/24/2019.
- **Monarch butterfly optimization for optimal integration of res base dg for pdn loss minimization**, Pushpendra singh SK Bishnoi NK Meena and Jin Yang ,International Conference on Applied Energy 2019 , International , Elsevier , , , 12/08/2019.
- **Backward/forward method for three-phase power flow calculation in low voltage distribution networks with ev charging points**, Nand K. Meena, Jin Yanga , Pushpendra Singh ,IEEE India International Conference on Power

- **Moth search optimization for optimal integration of ders for annual energy loss minimization in distribution systems**, Pushpendra singh SK Bishnoi NK Meena ,IEEE India International Conference on Power Electronics , International , IEEE , , 10.1109/IICPE.2018.8709410 , 12/13/2018.

Book Chapter:

- Swarm Intelligence Algorithms: A Tutorial, CRS Press, Taylor and Francis Publication.
- Swarm Intelligence Algorithms: M odifications and Applications, Taylor and Francis Publication.

Research Projects

- Development of renewable integrated smart micro grid console with intelligent controller, (MHRD) NPIU Project, Cost:17 Lac (Completed June 20210).
- A 3-DOF Robotic Manipulator, (MHRD)NPIU Project, Cost:14 Lac (Completed June 2020).

Awards:

- IEEE Senior Member (19/02/2022)
- Young Achiever Award 2020 (30/12/2020)

Administration Posts held:

- Head of Department
- Solar Coordinator
- Member College Administration Committee
- Electrical State In charge
- PhD Coordinator (EE)

Event Organized

Name of Event	Type of event	Role	Duration (days)	Venue	Organizing Agency
Application of AI Technique in Robotics , Renewable Energy & Smart Grid	Workshop	Coordinator	5days	GWECA	TEQIP-3 & IEEE Rajasthan Subsection
Summer Training Program	Others	coordinator	60	GWECA	TEQIP-III
Recent Trends and simulators for wireless sensor networks	Workshop	Co-coordinator	7	GWECA	GWECA TEQIP-II
Finishing School On MATLAB	Others	Coordinator	15	GWECA	GWECA TEQIP-II
Digital Forensic and cyber Security	Workshop	Co-coordinator	15	GWECA	GWECA In Ass. With NITTR Chandigard.
National Work Shop on Nuclear Energy & Radiation	Workshop	Coordinator	01	GWECA	GWECA In Ass. With NPCIL