CURRICULUM VITAE of *Saba Javed*

CAREER OBJECTIVE

A challenging diverse and dynamic job with good amount of freedom and corresponding work responsibility. I look forward to join a growing organisation where I can put in my share of contribution, into its growth, resulting in a relationship of mutual benefits.

PROFESSIONAL JOB EXPERIENCE

- **Assistant Professor** at **NED, UET. (August 2022 to Current)**
- **Assistant Professor** at **PAF-KIET. (March 2016 to July 2022)**
- **Lecturer** at **PAF-KIET. (September 2011 to 2016)**
- **Visiting Faculty in Well reputed Local Universities.**
- **Other administrative Responsibilities.**
  1. Outcome Based Education (OBE) coordinator.
  2. Session Chair Person in 7th International Electrical Engineering Conference IEEC,2022
  3. Program Committee member Intellect 2022, Third International Conference on latest Trends in Electrical Engineering and Computing Technologies.
  4. Publication Chair in Intellect 2017, Second International Conference on latest Trends in Electrical Engineering and Computing Technologies.
  5. Coordinator of Senior Design Projects (SDP).
  6. Chair Person of Industrial Advisory Board Meeting.
  7. Designing Course Outline of Electical Engineering Core subjects (Theory & Lab) Considering OBE Constraints.
  8. Actively conducting workshops on OBE.
  9. Head of Course folder maintainance Committee.
  10. Active Member of Board of Studies.
  11. Actively Participated in maintaining Self Assessment Report (SAR) for PEC.
  12. Committee member of PEC visitation team.

EDUCATIONAL QUALIFICATIONS

Degree	Subjects	Year	Div./Grade/CGPA	University/Board
Ph.D.	Electronics Engineering (Applied Power Electronics and Controls)	2021	**3.58 CGPA**	Fellowship in; PAF-Karachi Institute of Economics & Technology
M.S	Electronics Engineering (Applied Power & Controls)	2013	**3.8 CGPA** **1st Position**	Fellowship in; PAF-Karachi Institute of Economics & Technology
B.E.	Industrial Electronics	2010	**3.75** **3rd Position**	Institute Of Industrial Electronics of Engineering (IIEE), **NEDUET** Karachi

Ph.D. (Applied Power Electronics), PAF KIET, Karachi – 2021

Phd Thesid "A simplified yet fully adaptive particle swarm optimization method for maximum power point tracking of photovoltaic system under partial shading condition" (30 Cr.)

This work proposes a simple yet fully adaptive particle swarm optimization (PSO) algorithm to improve the tracking competency of PV system under PSC. Proposed algorithm exploits a very simple structure with two adaptive parameters. To evaluate the viability of the proposed method, the designed PV system is simulated in the MATLAB environment against the three shaded *P–V* curves and results are compared with two well-known PSO algorithms. Furthermore, each algorith is executed for 100 times and obtained results are validated through a newly benchmark test, namely run length distribution (RLD). For validation, a 600W dc-dc Cuk converter is fabricated and the proposed MPPT code is programmed using a low-cost dspic30f4013 microcontroller. Both simulation and experimental results reveal that the proposed algorithm outperforms the other two well known MPPT methods, in terms of convergence speed and success rate.

Research Publication.

1. **S. Javed**, K. Ishaque et. al A Simple yet Fully Adaptive PSO Algorithm for Global Peak Tracking of Photovoltaic Array Under Partial Shading Conditions. **IEEE Transaction on Industrial Electronics** (IF 8.23).
2. **S. Javed**, K. Ishaque A new benchmark test for evolutionary algorithms for maximum power point tracking of solar PV systems under partial shading conditions. **Ain Shams Engineering Journal, ASEJ** (IF 4.79).
3. **S. Javed**, K. Ishaque et. al " A simplified yet effective fuzzy logic controller for chemical ship tanker **" Journal of Intelligent & Fuzzy Systems**. (IF 1.9).
4. **S. Javed**, Gulham e Mustafa Abro et.al " Piece-wise linear Fuzzy sliding mode controller for deep Submergence Rescue Vehicle", **Sir Syed University Research Journal of Engineering and Technology**. (HEC Recognised Y- Category).
5. Ashab Mirza**, S. Javed** " An Effective & Efficient Implementation of OBE Framework within Constrained Pakistani Environment to Attain Desired Learning Outcomes". **Sir Syed University Research Journal of Engineering and Technology**. (HEC Recognised Y- Category).
6. Zeeshan Ali, **Saba Javed**, Kashif Ishaque, Shiraz Latif, and Muhammad G.U. Khan Comparative Tuning of the Conventional Fuzzy Logic Controller for the Buck Power Converter. **Proceedings Modeling and Simulation DOI: 10.2316/P.2013.802-066*From Proceeding*** .
7. A low-cost microcontroller Implementation of Fuzzy controller for Clean Energy Converters. (Submitted)

REFERENCES

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