Name: Amar Bouafassa

Rank: Maître de Conférences Classe «A»

Department: Department of Electrical, Electronic, and Automatic Engineering.

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Educational Profile:

- Ph.D in Automatic. November 2015. Ferhat Abbas, Sétif-1 University, Algeria.
- M.S in Automatic. June 2011. Ferhat Abbas, Sétif-1 University, Algeria.

Honors and Distinctions

Scientific Activities & Membership of Scientific Societies

1. School's Scientific Council Member
2. School's commission visibility member

List of Current Research Projects

Title: Contribution to the control and stability of electro-energetic systems by integrating FACTS devices and renewable energies.
Period: 2020-2024.
Post: PI
Financial support: Algerian Ministry of Higher Education and Scientific Research.
No. A01L08ES250120200001.

List of Journal Publications

1. S.E Halledj, A. Bouafassa . Novel anti-disturbance fast terminal sliding mode control with improved quick reaching law for DC-DC buck converter. Proc IMechE Part I: Journal of Systems and Control Engineering.2023, doi: 10.1177/0959651823115322.
2. S.E Halledj, A. Bouafassa . Anti-disturbance GITSMC with quick reaching law for speed control of PMSM drive. Bulletin of Electrical Engineering and Informatics , 2022, vol. 11(6):3228-3238.
3. A. Bouafassa, L. M. Fernández-Ramírez. A DSP-based implementation of fuzzy logic and predictive current control for a Sheppard-Taylor power factor correction converter. International Journal of Circuit Theory and Applications, 2022, vol. 50(3): 812-826.
4. A.Bouafassa, L.M. Fernández-Ramírez, B. Babes. Power quality improvements of arc welding power supplies by modified bridgeless SEPIC PFC converter. Journal of Power Electronics, 2020, vol. 20:1445–1455.
5. A.Bouafassa, L.Rahmani, S. Mekhilef. Design and real time implementation of single phase boost power factor correction converter. ISA Transactions, 2015, vol.55: 267-274.
6. A.Bouafassa, L. Rahmani, A. Kessal, B. Babes. Unity power factor converter based on a fuzzy controller and predictive input current. ISA Transactions. 2014, vol.53(6):1817-1821

List of Conference Papers

1. S. E. Halledj, A.Bouafassa. Intelligent control of efficient bridgeless SEPIC PFC converter powered BLDC Motor. 1st International Conference on Autonomous Systems and their Applications (ICASA'22). 2022, Taref, Algeria.
2. S. E. Halledj, A. Bouafassa. A Particle Swarm Optimization-trained artificial neural network of three stage maximum power tracking solar charge controller. 1er conference international Electrotechnique et Technologies Modernes. 2022, Soukahres, Algeria, doi: 10.1250/conf.10.
3. K. Benayad, T. Zabaiou and A. Bouafassa. Wide-Area Based SVC-Fractional Order PID Controller for Damping Inter-Area Oscillations. 6th IEEE International Energy Conference (ENERGYCon), 2020, pp. 610-615
4. A. Bouafassa, L. Rahmani, B. Babes and R. Bayindir. Experimental design of a finite state model predictive control for improving power factor of boost rectifier. IEEE 15th International Conference on Environment and Electrical Engineering (EEEIC), 2015, pp. 1556-1561, doi: 10.1109/EEEIC.2015.7165403.

List of Current Doctoral Research Students Supervision

1. Salah Eddine Halledj