

Dr. Seif Eddine CHEHAIDIA



Name: Seif Eddine CHEHAIDIA

Rank: Maître de Conférences Classe « B » (Assistant Professor)

Department: Mechanical Engineering

Email Address: seifeddine.chehaidia@enp-constantine.dz (main)

seifeddinechehaidia@yahoo.fr (main)

seifeddine.chehaidia@univ-annaba.org (secondary)

Educational Profile

- Doctorate LMD/PhD in Advanced Mechanics, Badji Mokhtar – Annaba University, Algeria.
- Master in Mechatronics, Badji Mokhtar – Annaba University, Algeria.
- License in Mechatronics, Badji Mokhtar – Annaba University, Algeria.

Scientific Activities & Membership of Scientific Societies

- Reviewer to “[Energy](#)” ISSN: 0360-5442.
- Reviewer to “[International Journal of Electrical Power & Energy Systems](#)”, ISSN: 0142-0615.
- Reviewer to “[IEEE Access](#)”, ISSN: 1975-0102.
- Reviewer to “[Journal of Electrical Engineering & Technology](#)”, ISSN: 2169-3536.
- Reviewer to “[Energy Science & Engineering-Wiley](#)”, E-ISSN: 2050-0505.
- Reviewer to “[Periodicals of Engineering and Natural Sciences](#)”, ISSN: 2303-4521.
- Reviewer to “[Engineering, Technology & Applied Science Research](#)”, ISSN: 2241-4487.
- Reviewer to “[Heritage and Sustainable Development](#)”, ISSN: 2712-0554.
- Reviewer to “[International Journal of Electrical and Computer Engineering Systems](#)”, ISSN: 1847-6996.
- Reviewer to “[25th IEEE International Conference on Industrial Technology](#)”. Bristol, UK, 27-27 March 2024.
- Reviewer to “[14th IFAC Workshop on Adaptive and Learning Control Systems ALCOS 2022](#)”.
- Organization of the [6th Franco-Maghrebian Scientific Days on “Characterization of Complex Materials”](#); organized by Industrial Mechanics Laboratory, Badji Mokhtar – Annaba University on November 17-19, 2019; Annaba, Algeria.

List of Patents

1. A Kerrada, E Kahlouch, M Djenane, **SE Chehaidia**, [Mélangeur - malaxeur de mortier avec rotor sensible aux chocs](#), Mortar Mixer with Shock-sensitive Rotor, *Institut National Algérien de la Propriété Industrielle (INAPI)*, Brevet DZ 231091, 04 Juillet 2023.

List of Journal Publications

1. Habiba Abouri, Fatima El Guezar, **SE Chehaidia**, Hassane Bouzahir, Alessandro N. Vargas, 2023, [Integral-Backstepping Sliding Mode Control for Maximizing the Power Production of Wind Turbines](#), Engineering, Technology & Applied Science Research, ISSN: 2241-4487.
2. H Cherif, M Maamir, **SE Chehaidia**, 2023, [Analysis for inter turn stator fault with load variation in Induction Motor](#), *International Journal of Energetica (IJECA)*, Vol: 08(1), Pages: 12-18, ISSN: 2543-3717.
3. D Derbal, A Abderrezak, **SE Chehaidia**, MT Amin, MI Mosaad, TA Abdul-Fattah, 2023, [Parametric Study and Optimization of No-Blocking Heliostat Field Layout](#), *Energies*, Vol: 16(13), Pages: 4943, ISSN: 1996-1073.
4. H Chojaa, A Derouich, **SE Chehaidia**, O Zamzoum, M Taoussi, H Benbouhenni, M Mahfoud, 2022, [Enhancement of Direct Power Control by Using Artificial Neural Network for a Doubly Fed Induction Generator-Based WECS: An Experimental Validation](#), *Electronics*, Vol: 11, Pages: 4106, ISSN: 2079-9292.
5. **SE Chehaidia**, H Cherif, M Alraddadi, MI Mosaad, AM Bouchelaghem, 2022, [Experimental Diagnosis of Broken Rotor Bar Faults in Induction Motors at Low Slip via Hilbert Envelope and Optimized Subtractive Clustering Adaptive Neuro-Fuzzy Inference System](#), *Energies*, Vol: 15, Pages: 6746, ISSN: 1996-1073.
6. H Chojaa, A Derouich, M Taoussi, **SE Chehaidia**, Zamzoum O, MI Mosaad, A Alhejji, M Yessef, 2022, [Nonlinear Control Strategies for Enhancing the Performance of DFIG-Based WECS under a Real Wind Profile](#), *Energies*, Vol: 15, Pages: 6650, ISSN: 1996-1073.
7. **Chehaidia SE**, Kherfane H, Cherif H, Boukhezzer B, Kadi L, Chojaa H, Abderrezak A, 2022, [Robust Nonlinear Terminal Integral Sliding Mode Torque Control for Wind Turbines Considering Uncertainties](#), *IFAC-PapersOnLine*, Vol: 55, Pages: 228-233, ISSN: 2405-8963.
8. Chojaa H, Derouich A, **Chehaidia SE**, Zamzoum O, Taoussi M, Elouatouat H, 2021, [Integral sliding mode control for DFIG based WECS with MPPT based on artificial neural network under a real wind profile](#), *Energy Reports*, Vol: 7, Pages: 4809-4824, ISSN: 2352-4847.
9. Zaida H, Bouchelaghem AM, **Chehaidia SE**, 2021, [Experimental Study of Tool Wear Evolution during Turning Operation Based on DWT and RMS](#), *Defect and Diffusion Forum*, Vol: 406, Pages: 392-405, ISSN: 2352-4847.
10. Cherif H, Benakcha A, Laib I, **Chehaidia SE**, Menacer A, Soudan B, Olabi AG, 2020, [Early Detection and Localization of Stator Inter-Turn Faults Based on Discrete Wavelet Energy Ratio and Neural Networks in Induction Motor](#), *Energy*, Vol: 212, Pages: 118684, ISSN: 0360-5442, 1873-6785.
11. Khechekhouche A, Cherif H, Benakcha A, Menacer A, **Chehaidia SE**, Panchal H, 2020, [Experimental diagnosis of inter-turns stator fault and unbalanced voltage supply in](#)

- [induction motor using MCSA and DWER](#), Periodicals of Engineering and Natural Sciences (PEN), Vol: 8, Pages: 1202-1216, ISSN: 2303-4521.
12. **Chehaidia SE**, Abderezzak A, Kherfane H, Boukhezzar B, Cherif H, 2020, [An Improved Machine Learning Techniques Fusion Algorithm for Controls Advanced Research Turbine \(CART\) Power Coefficient Estimation](#), UPB Scientific Bulletin, Series C: Electrical Engineering and Computer Science, Vol: 82, Pages: 279-292, ISSN: 2286-3540, 2286-3559.

List of Books & Chapter Books

1. **Chehaidia SE**, Kherfane H, Cherif H, Abderrezak A, Chojaa H, Kadi L, Boukhezzar B, Taoussi M, 2022, [An Improved Supervised Fuzzy PI Collective Pitch Angle Control for Wind Turbine Load Mitigation](#), International Conference on Digital Technologies and Applications 2022, Publisher: Springer Cham.
2. Chojaa H, Derouich A, Bourkhime Y, Chetouani E, Meghni B, **Chehaidia SE**, Yessef M 2021, [Comparative Study of MPPT Controllers for a Wind Energy Conversion System](#), International Conference on Advanced Technologies for Humanity ICATH 2021 Publisher: Springer Cham.

List of Conference Papers

1. Djenane Mohamed, Abdelhakim Djebara, Kessir Mostefa, Moad Chibani, **Chehaidia Seif Eddine**, 2023, [Design and Analysis of Egg Packing SCARA Robot](#), IEEE First International Conference on Electrical Engineering and Advanced Technologies, ICEEAT23; 05-07 November 2023, BATNA, Algeria, Publisher: IEEE.
2. Ahmouda Yacine, Boussaid Ouzine, **Chehaidia Seif Eddine**, 2023, [Artificial Neural Network MPPT Based Lead Acid Battery Charge Controller for Isolated Photovoltaic System](#), IEEE First International Conference on Electrical Engineering and Advanced Technologies, ICEEAT23; 05-07 November 2023, BATNA, Algeria, Publisher: IEEE.
3. Chojaa H, Derouich A, **Chehaidia SE**, Taoussi T, Zamzoum O, Mosaad MI, Benbouhenni H, Yessef M, 2022, [Advanced Control Techniques for Doubly-Fed Induction Generators Based Wind Energy Conversion Systems](#), IEEE Global Energy Conference (GEC) 2022, Publisher: Institute of Electrical and Electronics Engineers (IEEE).
4. Derbal D, Abderrezak A, **Chehaidia SE**, 2022 [No-blocking Heliostat Field Layout in Tamanrasset](#), 2022 2nd International Conference on Innovative Research in Applied Science, Engineering and Technology (IRASET), Publisher: Institute of Electrical and Electronics Engineers (IEEE).
5. **Chehaidia SE**, Abderezzak A, Kherfane H, Guersi, Hakima Cherif, Boukhezzar B, 2022, [Fuzzy gain scheduling of pi torque controller to capture the maximum power from variable speed wind turbines](#), IEEE Global Energy Conference (GEC) 2022, Publisher: Institute of Electrical and Electronics Engineers (IEEE).
6. ZAIDA H, **CHEHAIDIA SE**, BOUTEGHANE F, BOUCHELAGHEM AM, 2019, [Analyse de l'usure d'outil de coupe par TRO et RMS](#), 6èmes Journées Scientifiques Franco-Maghrébines sur la Caractérisation des Matériaux Complexes 2019, Publisher : Badji Mokhtar – Annaba University.

7. Cherif H, Laib I, Menacer A, Benakcha A, **Chehaidia SE** and Olabi AG, 2019, [Experimental diagnosis of inter turn stator fault using discrete wavelet energy ratio and ANFIS in induction motor](#), 12th international conference on Sustainable Energy and Environmental Protection "SEEP" 2019, Publisher University of Sharjah.
8. **CHEHAIDIA SE**, ABDERREZAK A, KHERFANE H, CHERIF H, 2019, [Nonlinear Integral Sliding Mode control of wind turbine with Optimal Power Capture in Region II](#), National Symposium on green energies NSGE'10 2019, Publisher University of EL Oued.
9. Cherif H, **Chehaidia SE**, Boualem S, Meissa M, Maamir M, 2019, [DWT analysis for intern turn stator fault with load variation](#), National Symposium on Green Energies NSGE'10 2019, Publisher University of EL Oued.