

CURRICULUM VITAE



Name and Surname: Regad Mohamed Sidi Brahim
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SHORT SUMMARY

Regad Mohamed Sidi Brahim received his engineering bachelor degree in electrical engineering from the University of Mascara Algeria in 2014. He obtained his Master in Electrical System Engineering in 2016 from University of Mascara, Algeria. He finished his Ph.D. degree from Hassiba Benbouali University of Chlef, Algeria. His research interest focuses on modeling and control of microgrid power system, and heuristics optimization techniques.

STUDY

2020: PhD degree in Electrical Network and High Voltage from the University of Chlef - Algeria
2016: Master in Electrical Engineering - Electrical Systems Engineering (University of Mascara - Algeria)
2014: Degree in Electrical Engineering - Electro technical Option (University of Mascara - Algeria)
2011: BAC: Mathematical Series (School-Aioun- Mauritania)

PROFESSIONAL EXPERIENCES

2018-2019: Three-months training in English at the CEIL Center at the University of Chlef, Algeria
2017-2018: Three-months training in English at the CEIL Center at the University of Chlef, Algeria
2016: 20-Days internship at SONELGAZ - Western electricity and Gas Distribution Company in Mascara, Algeria.
2016: LANGUAGE CERTIFICATE in MSL (Mascara School of Language), Level B1 According to the CEFR (COMMON EUROPEAN FRAMEWORK OF REFERENCE) program in collaboration with the EFS (EUROPEAN FEDERATION OF SCHOOLS) in Mascara, Algeria.
2016: Practical Training on the Biological Methods of Extraction of Poly-phenols compared with Electrical Methods (in High voltage HT) at the Laboratories of the Faculty of Sciences of Nature and Life and the Faculty of Sciences and Technology - (University of Mascara) in Algeria.
2015: Certificate of qualification of three months in Electrical Engineering - Option: ELECTRICAL WIRING AND AREMOIRES at the School of Science and Technology (STS) – Electro-technical Department in (Annaba-Algeria).
2014: 15 Days internship at SONELGAZ- (Company of Distribution of Electricity and Gas of West) in Algeria. **Missions or tasks carried out:** - Network monitoring (MV, LV); - Principle of operation of transformer and interconnection and distribution stations.
2014: 15 Days internship at SOMELEC (Mauritanian Electricity Company), **Missions or tasks carried out:** Fuel circuits, Hydraulic circuits, Instrumentation (Sensors, Regulation valves), Protection systems.
2012: 32-hours French Language Training
2012: Certificate of Achievement in general English courses Algerian Learning Centers

ACADEMICS EXPERIENCES

2019-2020: Temporary teacher at Electrical Engineering Department Faculty of Technology, Hassiba University Benbouali, Chlef, Algeria:

- Industrial Electrical power (course) for Master Electromechanical
- Industrial Electrical power (cours +TD) Master electrical network
- TP waves and vibrations for License L2 electrical engineering

2018-2019: Temporary teacher at Electrical Engineering Department Faculty of Technology, Hassiba University Benbouali, Chlef, Algeria:

- Industrial Electrical power (course+TP) for Master Electromechanical
- Industrial Electrical power (TP) Master electrical network
- TP stability for Master Electrical Network

2017-2018: Temporary teacher Numerical Methods in Matlab (TP) for License L2 and Industrial Electrical power (course +TP) for Master Electromechanical at Electrical Engineering Department Faculty of Technology, Hassiba University Benbouali Chlef, Algeria

2016-2017: Temporary teacher Numerical Methods and Analytics for License L2 (TD) Electrical Engineering Department Faculty of Technology, University of Mascara, Algeria

Co-Supervision

Ilham Chaabane: - Master: Modeling and control of a wind chain based on MADA 2019-2020, University of Chlef, Alegria

Siham Koubba and Hamadouche Fatima- Master: Modeling and control of a Micro-grid based on Renewable Energy using KH 2019-2020 University of Chlef, Alegria

Younes Chouieur- Master: Comparative study of two MPPT algorithms for a wind power conversion chain 2019-2020 University of Chlef, Alegria

PUBLICATIONS

M. Regad, M. Helaimi, R. Taleb, Hossam A. Gabbar, Ahmed M.Othman Frequency Control of Microgrid with Renewable Generation using PID Controller based Krill Herd IJEEI March 2020

M. Regad, M. Helaimi, R. Taleb, Hossam A. Gabbar, Ahmed M.Othman Frequency Control of Microgrid system based Renewable Generation using Fractional PID Controller IJEECS August 2020

M. Regad, M. Helaimi, R. Taleb, Hossam A. Gabbar, Ahmed M.Othman Microgrid Frequency control using a PID controller based Krill Herd Algorithm with renewable energy generation IJPDS December 2020

M. Regad, M. Helaimi, R. Taleb, Hossam A. Gabbar, Ahmed M.Othman Krill Herd based Frequency Controller for Hybrid Energy System with Renewable Energy Generation and Storage Devices ENERGETICA accepted

M. Regad, M. Helaimi, R. Taleb Control of Isolated Microgrid Based Renewable Energy Generation Using PID Controller IJAPE ACCEPTED

M. Regad, M. Helaimi, R. Taleb, Hossam A. Gabbar, Ahmed M.Othman OPTIMAL FREQUENCY CONTROL IN MICROGRID SYSTEM USING RATIONAL ORDER PID CONTROLLER USING KRILL HERD ALGORITHM Electrical Engineering & Electromechanics PUBLISHED APRIL 2020

M. Regad, M. Helaimi, R. Taleb, Hossam A. Gabbar, Ahmed M.Othman Optimal Fractional Order Fuzzy Controller for Microgrid Frequency Control Enhancement in REVIEW

CONFERENCES

- M. Regad**, M. Helaimi, R. Taleb (2020): Frequency Control of Microgrid based Renewable Generation with a Fuel Cell system, Workshop on Smart Energy Systems 17-Mar-2020 ERC1094 , Oshawa , Canada
- M. Regad**, M. Helaimi, R. Taleb(2020) : Analyzed Control of an Autonomous Microgrid System based on Renewable Energy Resources using PIDController La 1ère Conférence Nationale sur la Transition Energétique en Algérie (CNTEA 1 – 2020) Université Mohamed BOUDIAF de M’sila, le 8-9 Mars 2020, M’sila
- M. Regad**, M. Helaimi, R. Taleb (2020) : Control of Isolated Microgrid based Renewable Energy Generation using PID Controller The First International Conference on Materials, Energy and Environment, MEE'2020 At El Oued, Algeria.
- A.E. Toubal Maamar, M. Helaimi, R. Taleb, **M. Regad**, A. BELBOULA(2019) : Simulation of a 60 w Solar Panel Model in Matlab/Power Systems, international Conference on Renewable Energy and Energy Conversion-ICREEC'2019-USTO-MB Oran, Algeria.
- M. Regad**, M. Helaimi, R. Taleb: Contribution to Modeling and Optimal Control of Micro grid-based Renewable energy sources, The First Doctoral Symposium on Technology: Process, Mechanical and Electrical Engineering DST'01-2019 Chlef, Algeria.
- M. Regad**, M. Helaimi, R. Taleb, Ahmed M. Othman, Hossam A. Gabbar (2019, November): Frequency Control in Microgrid Power System with Renewable Power Generation Using PID Controller Based on Particle Swarm Optimization. In *International Conference in Artificial Intelligence in Renewable Energetic Systems* (pp. 3-13). Springer, Cham.
- M. Regad**, M. Helaimi, R. Taleb, & Maamar, A. T. (2019, November): Optimum Synthesis of the PID Controller Parameters for Frequency Control in Microgrid Based Renewable Generations. In *International Conference in Artificial Intelligence in Renewable Energetic Systems* (pp. 546-556). Springer, Cham.
- M. Regad**, M. Helaimi, R. Taleb, Hossam A. Gabbar, Ahmed M. Othman (2019, August): Fractional Order PID Control of Hybrid Power System with Renewable Generation Using Genetic Algorithm. In *2019 IEEE 7th International Conference on Smart Energy Grid Engineering (SEGE)* (pp. 139-144). IEEE.

SCHOLARSHIPS

- 2019-2020: Scholarship** for 03 months at Ontario Technology University, Oshawa, Canada
- 2018-2019: Scholarship** for 01 month at Ontario Technology University, Oshawa, Canada
- 2016-2020: Scholarship** at Hassiba Benbouali Chlef, Algeria
- 2011-2016: Scholarship** at Mascara University- Mascara, Algeria

SUPPLEMENTARY COMPETENCES

Office Automation: Word, Excel and PowerPoint.

Programming: Matlab, C ++, Comsol multiphase and Psim

Languages: Arab, English, French

Links of research gate and Google Scholar:

https://www.researchgate.net/profile/Regad_Sidi_Brahim

<https://scholar.google.com/citations?user=w8mKla0AAAAJ&hl=en&authuser=2>

<https://univ-chlef.academia.edu/MREGAD>

The Interested:

Dr. Regad Mohamed Sidi Brahim