

Curriculum Vitae

PERSONAL DATA

Name: Muhammed Abduljaleel Ibrahim Sultan
Place of birth: Ninevah-Iraq
Nationality: Iraqi Citizen
Sex: Male
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Affiliation: Ninevah University.

Dept.: Systems and Control Engineering.

College: Electronics Engineering.

Specialization: Power and Machines/ Control.

Education:

- 2011 B.Sc., a degree in Electrical Engineering from the **Northern Technical University-Iraq.**
Rank: 1st
- 2013 M.Sc., degree in Electrical Engineering from the **University of Mosul / College of Engineering.** Mosul- Iraq.
- 2021 Ph.D. student in Electrical Engineering at the **University of Mosul / College of Engineering.** Mosul- Iraq.
(up till now)

Current Occupation:

- Lecturer at the Nineveh University, College of Electronics Engineering, system and control engineering department since 20016 up till now.

Research Interests:

- 1) Control system.
- 2) Power Electronics.
- 3) Evolutionary algorithms.
- 4) PID optimization.

Sites:

Google scholar : Muhammed A. Ibrahim
<https://scholar.google.com/citations?authuser=1&user=BE16XHwAAAAJ>
 Research gate : Muhammed A. Ibrahim
https://www.researchgate.net/profile/Muhammed_A_Ibrahim2
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Published Articles:

2013	Ahmad, A. H., and Muhammed A Ibrahim. "Hybrid Genetic Algorithm/Bacterial Foraging Techniques Based Single Phase Induction Motor Speed Control." 2nd Scientific Engineering Conference, Vol -2-, 19th - 21th Nov. 2013, (page 84 to 95).
2018	S Dawood, Younis, Ali K Mahmood, and Muhammed A Ibrahim. "Comparison of PID, GA and Fuzzy Logic Controllers for Cruise Control System." International Journal of Computing and Digital Systems 7.05 (2018): 311-319.
2019	Ibrahim, Muhammed A., Ausama Kh Mahmood, and Nashwan Saleh Sultan. "Optimal PID controller of a brushless DC motor using genetic algorithm." Int J Pow Elec & Dri Syst ISSN 2088.8694 (2019): 8694.
2020	Khather, Salam Ibrahim, and Muhammed A. Ibrahim. "Modeling and simulation of SEPIC controlled converter using PID controller." International Journal of Power Electronics and Drive Systems 11.2 (2020): 833.
2020	Muhammed A. Ibrahim an Khather, Salam. " Optimized PID Controller for a Self-lift Positive Output Luo-Converter" International Multi-Disciplinary Conference Theme: "Sustainable Development and Smart Planning"2020
2020	Muhammed A. Ibrahim. " Performance Evaluation of PI Controller for Positive Output Luo Converter." International Journal of Power Electronics and Drive Systems 11.4(2020) .
2020	Ibrahim, Mustafa Hussein, and Muhammed A. Ibrahim. "The Optimum PV Panels Slope Angle for Standalone System: Case Study in Duhok, Iraq." IOP Conference Series: Materials Science and Engineering. Vol. 1076. No. 1. IOP Publishing, 2021.
2021	Ibrahim, Mustafa Hussein, and Muhammed A. Ibrahim. " Solar-Wind Hybrid Power System Analysis Using Homer for Duhok, Iraq. doi:10.15199/48.2021.09.28, 2021. PRZEGLĄD ELEKTROTECHNICZNY, ISSN 0033-2097, R. 97 NR 9/2021 139
2022	Muhammed A Ibrahim Salam Ibrahim khather Mustafa Hussein Ibrahim" Modelling and Analysis of SA-SPV System with bi-directional inverter for lighting load" doi:10.15199/48.2021.09.28, 2021. PRZEGLĄD ELEKTROTECHNICZNY, 126-129 NR 5/2022
2022	Ibrahim, Muhammed A., and Ahmed Nasser B. Alsammak. "Switched Reluctance Motor Drives Speed Control Using Optimized PID Controller." Przegląd Elektrotechniczny 98.11 (2022).
2023	Ibrahim, Muhammed A., Mustafa Hussein Ibrahim, and Salam Ibrahim Khather. "Design of Fuzzy-ACO Based Controller for Cuk Converter in Electric Vehicles." Journal Européen des Systèmes Automatisés 56.3 (2023): 425-430.
2023	Salam Ibrahim Khather, Muhammed A Ibrahim, Mustafa Hussein Ibrahim" DUAL FUZZY LOGIC PID CONTROLLER BASED ANALYSIS OF DC MOTOR SPEED CONTROL WITH OPTIMIZATION USING HARMONY SEARCH ALGORITHM" Eastern-European Journal of Enterprise Technologies ISSN 1729-3774 4/8 (124) 2023
2023	Salam Ibrahim Khather, Muhammed A Ibrahim, Abdulla I. Abdulla" Review and Performance Analysis of Nonlinear Model Predictive Control - Current Prospects, Challenges and Future Directions" Journal Européen des Systèmes Automatisés, 56. 3 (2023)

2023	Muhammed A Ibrahim , Ahmed Nasser B. Alsammak. " Adaptive PID Control for 8/6 Switched Reluctance Motor Drive Based on BFO " Journal Européen des Systèmes Automatisés, (2023)
2023	Muhammed A Ibrahim , Ahmed Nasser B. Alsammak. " Switched Reluctance Motor Drive Challenges - A review " Al-Iraqia Journal for Scientific Engineering Research. (2023)

Lecturing Experience:

- ✓ **Digital Electronics** (2016/2017)
- ✓ **Mathematics** (2017/2018)
- ✓ **Electrical circuits** (2018/2019)
- ✓ **DC machines** (2019/2020)
- ✓ **AC machines** (2020/2021)
- ✓ **DC machines** (2021/2022)
- ✓ **AC machines** (2022/2023)

B.Sc. thesis which was supervised by:

- Turbine Speed Control Using Genetic Algorithm Based On PID Controller 2017/2018
- Modelling and Implementation of Vector Control for Induction Motor Drive 2022/2023

Participations:

- Certified **IREX** Research Management Course, 2022.
- A training course with **Expertise France** (CDC development).
- Completed the **Publons Academy** practical peer review course.
- Certified **Publons Academy Mentor**.
- Iraq **E-learning Professional Training Program** Training of Trainers (TOT)
- Scientific Research Reviews (22)
- Organizing scientific conferences(2)
- Workshops(120).
- Training courses (30)
- Member of Iraqi forum (**WAEDOUN**).
- Member of Iraqi Engineers Union.

Personal interests: Entrepreneurship, Reading and Sport

Languages: Mother Tongue: Arabic

Fluent: English, written and reading