

CURRICULUM VITAE

....Nashwan Saleh Sultan....

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Email: nashwansaleh86@yahoo.com, nashwan.saleh@ntu.edu.iq,
nashwansaleh1986@gmail.com, sultan_nashwan@yahoo.com

Specialization: Electrical Engineering / Control

Reserach gate: https://www.researchgate.net/profile/Nashwan_Sultan

EDAS: [1527263](#)

Education:

1. B.Sc. at Technical Electrical Engineering Department, Northern Technical University, Mosul, Iraq. Graduate Research was "**Electrical Measurement Laboratory Board** " 2008.
2. M.Sc. at Electrical Engineering Department, Power and Machines/ control field, University of Mosul, Mosul, Iraq. Graduate research was "Fuzzy Logic - Particle Swarm Optimization Based Voltage Converter Design", 2013.

Professional Experiences:

1. Assist Engineer since 2009 then Lecturer since 2013 at Northern Technical University, Technical College/Mousl, Electrical Power Engineering Technology Department, Iraq.

Teaching Subjects:

- ❖ undergraduate students: Power system Analysis, Computer applications, Control engineering, and Electrical machines.

❖ postgraduate.

❖ Very large Experiences in the followings computer software: Microsoft Office applications, Pspice, Matlab (programming and simulation) and other softwares.

Scientific Sessions:-

M.Sc. Supervision:

Publications:

1. A. H. Ahmad and **Nashwan. S. Sultan**, “Hybrid Fuzzy Logic Based A Particle Swarm Optimization Controller Design for ZETA Converter”, Al-Rafidain Engineering , Mosul, Iraq, Vol.22, No. 4 , May 2014, 88-99.
2. A. H. Ahmad and **Nashwan. S. Sultan**, “Design and Implementation of Controlled Zeta Converter Power Supply”, American Journal of Electrical and Electronic Engineering, 2014, Vol. 2, No. 3, 121-128.
3. Omar Turath Tawfeeq, Ali Abbawi Mohammed Alabbawi and **Nashwan S. Sultan**, “Simulation Studies of a Current Source Rectifier - DC Motor Using High Pass Filter With PID Controller”, International Journal of Engineering and Innovative Technology (IJEIT), April 2014, Vol. 3, No. 10, 327-332.
4. **Nashwan S. Sultan**, “Design and Implementation of PID Controller Based BFOA for Buck Converter Fed DC Motor Speed Control”, International Journal of Engineering and Innovative Technology (IJEIT), May 2014, Vol. 3, No. 11, 212-217.
5. **Fawaz S. Abdullah and Nashwan S. Sultan**, “Design and Implementation of Photovoltaic Maximum Power Point Tracking Controller”, Journal of University of Babylon, Engineering Sciences, Vol.26 No.5: 2018. 135-146.

6. **Nashwan S. Sultan**, “Design and Comparative Study of Photovoltaic Maximum Power Point Tracking Converter With DC Motor Speed Control”, 1st International Scientific Conference of Engineering Sciences - 3rd Scientific Conference of Engineering Science (ISCES) 2018.Dyala.Iraq.
7. **Nashwan S. Sultan**, Bashar A. Hamad and Ahmed G. Abdullah, “Study of Photovoltaic Maximum Power Point Tracking Fed DC Motor Improvement Performance”, Journal of Engineering and Applied Sciences, Vol. 13, No. 15. 6238-6245, 2018.
8. Sanabel M. AL-hajzber, Alya H. AL-Rifaie and **Nashwan S. Sultan**, “Intelligent Techniques of Design and Comparative Study for DC Motor Speed Control Fed by Photovoltaic and Fuel cell”, Jour of Adv Research in Dynamical & Control Systems, Vol. 10, No. 7. 1365-1376, 2018.
9. Ahmed M. T. Ibraheem Alnaib , **Nashwan S. Sultan** and Omar T. Mahmood , “Design a fuel cell based drive dc motor for an electric vehicle applications”, International Journal of Engineering & Technology, Vol. 7, No. 4. 2081-2087, 2018.
10. Nashwan Saleh Sultan, “State Feedback Control based Genetic Algorithms of a Modified Cuk Convertor” ,
الجامعة التقنية الجنوبية / وقائع المؤتمر العلمي الدولي الثالث للفترة من 14-15 / 3 / 2018
11. Nashwan Saleh Sultan, **Rakan Khalil ANTAR**, Bashar Abbas FADHEEL, “A Comparative Control Study of A Separately Excited DC Motor Using Intelligent Controllers”, Journal of Engineering and Applied Sciences, Vol. 13, No. 22. 9799-9805, 2018.
12. **Nashwan S. Sultan** ,Ahmed M. T. Ibraheem Alnaib and Omar T. Mahmood ,
“ **Design of genetic algorithm controller to fuel cell fed**

SEIG derived by DC motor”, International Journal of Engineering & Technology, Vol. 7, No. 5. 2018.

13. **Nashwan S. Sultan** , Ahmed J. Ali and ziyad K. Farej,“ **Performance evaluation of a hybrid fuzzy logic controller based on genetic algorithm for three phase induction motor drive**”, Vol. 10, No. 1, March 2019, pp. 117~127.

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.... Your papers that have been published

Research Interests:

Power converter design and control, Electrical machine drives, Renewable energy, Smart grid, and Intelligent Controllers, Optimization control algorithms.