

## CURRICULUM VITAE

.... Mahmood T. Al-Khayyat ....

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**EDAS:** [1487412](#)

### EDUCATION

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2018	University of Mosul, PhD. Major: Power System Engineering
1998	University of Mosul, MSc. Major: Machines Engineering
1994	University of Mosul, BSc. Major: Power and Machines Engineering

### ACADEMIC EMPLOYMENT

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November 2005 - present	<b>Graduate Teaching Assistant/Assistant Lecturer,</b> Northern Technical University, College of Technical Engineering /Mosul, Iraq.
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November 1999 - 2001	<b>Graduate Teaching Assistant/ Lecturer,</b> Bani Waleed Higher Institute, Higher Institute /Bani Waleed, Libya.
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## **PROFESSIONAL AFFILIATIONS AND SERVICES** \_\_\_\_\_

Design the whole electrical schemes of four buildings of Technical College Engineering, Design the power lines and cables and the associated power substations of the new buildings in, and supervising the whole electrical works of these new buildings, Technical College Engineering, Mosul, Iraq, 2006-2009.

## **PUBLICATIONS** \_\_\_\_\_

### ***PEER-REVIEWED JOURNAL ARTICLES AND INVITED BOOK CHAPTERS***

1. M.T. Mahmood Alkhayyat, Dr. Sinan M. Bashi, "Mitigation Unbalance Nonlinear Loads and Dissimilar Line Currents Using Shunt Active Power Filter SAPF", International Journal of Advanced Engineering, Management and Science (IJAEMS), Vol-2, Issue-10, Oct- 2016.
2. M.T. Alkhayyat, Dr. Sinan M. Bashi, "Online Loss Minimization in Distribution System Incorporating SSSC with Particle Swarm Optimization", International Journal of Advanced Engineering Research and Science (IJAERS), Vol-3, Issue-12, pp170-174, Dec- 2016.
3. M.T. Mahmood Alkhayyat, Dr. Sinan M. Bashi, "New Survey of Optimal Power Flow with FACTS Devices", Journal of Electrical Engineering and Electronic System (JEEES), Volume 5, Issue 4, December- 2016
4. M. T. Al-khayyat†, Sinan M. Bashi\* & Abdul-Ghani A. A.\* "Mitigation Balanced/ Unbalanced Voltage Sag and Phase Jumping Using Unified Power Quality Conditioner UPQC with Three Voltage Compensation Methods". Al-Kitab Journal for Pure Science, ISSN: (2617-1260), Volume 1, Issue 2, June 2018.

## **MANUSCRIPTS IN PREPARATION/SUBMITTED FOR REVIEW** \_\_\_\_\_

M. T. Al-khayyat†, Sinan M. Bashi\* "Reduce the Impact of Voltage Sag with Phase Jumping in AC Line Using Unified Power Quality Conditioners UPQC and Open UPQC", International Second Conference of IEEE, Mosul, Iraq, Feb.- 2019.

## **CONFERENCE PRESENTATIONS** \_\_\_\_\_

**TALKS** Reduce the Impact of Voltage Sag with Phase Jumping in AC Line Using Unified Power Quality Conditioners UPQC and Open UPQC International Second Conference of IEEE, Mosul, Iraq, Feb.- 2019.

**POSTERS** "Mitigation Balanced/ Unbalanced Voltage Sag and Phase Jumping Using Unified Power Quality Conditioner UPQC with Three Voltage Compensation Methods". Al-Kitab Journal for Pure Science, ISSN: (2617-1260), Volume 1, Issue 2, June 2018.

### **TEACHING EXPERIENCE** \_\_\_\_\_

- Undergraduate Students: AC Machines, DC Machines, Power System Protection, High Voltage, Power System Analysis, Control Engineering, and Engineering Circuit Analysis.
- High Experiences in the followings computer software: Microsoft Office applications, Pspice, Matlab (programming and simulation) PSIM, Power World Simulator (PWS).

### **TEACHING INTERESTS** \_\_\_\_\_

Power System Optimization and Control, Power Quality Improvement. Power Loss Minimization in Distribution System, Electrical Machines Analysis and Drives, Renewable Energy, Smart Grid, and Intelligent Controllers, Optimization Control Algorithms.