

CURRICULUM VITAE

Eyad S. S. Oda,

Associate Professor at Department of Electrical Engineering,
Faculty of Engineering, Suez Canal University



Personal Data

Name: Eyad Saeed Souliman Oda
Date of Birth: August, 3rd, 1984
Religion: Moslem
Gender: Male
Nationality: Egyptian.
Marital Status: Married with Children.
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Academic Qualification:

Ph.D. January 2017, Electrical Engineering Department, Faculty of Engineering,
Suez Canal University, Egypt. The PhD. thesis title:
" **Electric Power Systems Stability Improvement with Distributed Energy
Resources**"

M.Sc September 2012, Electrical Engineering Department, Faculty of Engineering,
Port Said University, Egypt. The M.Sc thesis title:
" **Optimization of Distributed Energy Resources for Enhancing Radial
Distribution Networks Performance**"

B. Sc. May 2006, Very good with honor degree, Electrical Engineering Department,
Faculty of Engineering, Suez Canal University, Egypt.

ORCID ID: <https://orcid.org/0000-0003-3024-5108>

Google Scholar: <https://scholar.google.com/citations?user=8vVmVJJoAAAAJ&hl=en>
<https://publons.com/researcher/AAS-5710-2021/>

Employment History:

Feb 2022 **Associate Professor**

Present **Electrical Engineering Department, Faculty of Engineering, Suez Canal University, Egypt.**

Undergraduate Courses:

Teaching the following course as course instructor, preparing lecture notes, teaching lectures, laboratories, preparing assignments and preparing and marking mid-term and final tests.

- Electric Power System I, II, and III.
- Power System Planning.
- Standard Specifications and Electric Installations.

Postgraduate Courses:

- Special Studies in Electrical Power Systems.
- Artificial Intelligence Applications in Power System.

Scientific Research:

- Contributing in the preparation of research proposals.
- Preparing and writing research technical papers.
- Prepared research proposals, reports and papers for conferences and journal publications.

Feb. 2017 –
Feb 2022 **Assistant Professor**

Electrical Engineering Department, Faculty of Engineering, Suez Canal University, Egypt.

Undergraduate Courses:

- Teaching Electric Circuits as course instructor, preparing lecture notes, teaching lectures, laboratories, preparing assignments and preparing and marking mid-term and final tests.

- Teaching Power System Analysis as course instructor, preparing lecture notes, teaching lectures, laboratories, preparing assignments and preparing and marking mid-term and final tests.
- Teaching Power System Protection as course instructor, preparing lecture notes, teaching lectures, laboratories, preparing assignments and preparing and marking mid-term and final tests.

Postgraduate Courses:

- Teaching special studies in electrical power systems

Scientific Research:

- Contributing in the preparation of research proposals.
- Preparing and writing research technical papers.
- Prepared research proposals, reports and papers for conferences and journal publications.

Nov. 2012 –
Dec. 2016

**Assistant Lecturer,
Electrical Engineering Department, Faculty of Engineering, Suez Canal
University, Egypt.**

- Carried research in the area of Classification and Mitigation of Power Dynamics Disturbances in Electric Distribution Networks with Wind Energy.
- Prepared research proposals, reports and papers for conferences and journal publications.
- Assisted in teaching the following courses (taught some lectures, tutorials, marked assignments, run labs, invigilated midterm and final exams):
 - Electric Power System I & II.
 - Electrical Instrumentation (Analogue and Digital).
 - Analog and Digital Control System Engineering.
 - Power System Protection (Analog and Digital).
 - Electric Machines I & II & III.
 - Power System Stability.

Dec. 2007 –
Oct. 2012

**Research and Teaching Assistant
Electrical Engineering Department, Faculty of Engineering, Suez Canal
University, Egypt.**

- Carried research in the area of optimization of distributed generation application in power systems.
- Prepared research proposals, reports and papers for conferences and journal publications.
- Assisted in teaching the following courses (taught some lectures, tutorials, marked assignments, run labs, invigilated midterm and final exams):
 - Electric Circuits I & II.
 - Electrical Instrumentation (Analogue and Digital).
 - Power System Protection (Analogue and Digital).
 - Electric Machines I & II & III.
 - Power System Stability.

Publications:

Referred Journals

1. Gami, F., Alrowaili, Z.A., Ezzeldien, M. et al. "**Stochastic optimal reactive power dispatch at varying time of load demand and renewable energy resources using an efficient modified jellyfish optimizer**", *Neural Comput & Applic* 34, 20395–20410 (2022). <https://doi.org/10.1007/s00521-022-07526-5>
2. **E. S. Oda**, M. Ebeed, A. M. A. E. Hamed, A. Ali, A. A. Elbaset, and M. A. E. Sattar," **Optimal allocation of a hybrid photovoltaic-based DG and DSTATCOM under the load and irradiance variability**", *Int Trans Electr Energ Syst*, 2021; e13131. doi:10.1002/2050-7038.13131
3. M. E. Hussein, F. Rabea, S. Kamel and **E. S. Oda**, "**Effective Modeling of OUPFC into Newton-Raphson Power Flow Considering Multi-Control Modes and Operating Constraints**," in *IEEE Access*, vol. 9, pp. 129394-129406, 2021, doi: 10.1109/ACCESS.2021.3113733.
4. **E. S. Oda**, A. M. A. E. Hamed, A. Ali, A. A. Elbaset, M. A. E. Sattar and M. Ebeed, "**Stochastic Optimal Planning of Distribution System Considering Integrated Photovoltaic-Based DG and DSTATCOM Under Uncertainties of Loads and Solar Irradiance**," in *IEEE Access*, vol. 9, pp. 26541-26555, 2021, doi: 10.1109/ACCESS.2021.3058589.
5. A. Abdelsalam, A. A. Salem, **E. S. Oda** and A. A. Eldesouky, "**Islanding Detection of Microgrid Incorporating Inverter Based DGs Using Long Short-Term Memory Network**," in *IEEE Access*, vol. 8, pp. 106471-106486, 2020, doi: 10.1109/ACCESS.2020.3000872.

6. **Eyad S. Oda**, Abdelazeem A. Abdelsalam, Mohamed N. Abdelwahhab, and Magdi M. El-Saadawib ” **Distributed Generations Planning using Flower Pollination Algorithm for Enhancing Distribution System Voltage Stability**”, Ain Shams Engineering Journal, 2015
7. **E. S. S.Oda**, G. A. Mahmoud, “**Impact Of Connecting Wind Turbine to Radial Distribution System On Voltage Stability And Power Loss**”, International Journal of Distributed Energy Resources, Vol. 7, No. 4, pp. 287-309, 2011.
8. **E. S. S.Oda**, G. A. Mahmoud,” **Investigation of Connecting Wind Turbine to Radial Distribution System on Voltage Stability Using SI Index and λ -V Curves**”, Smart Grid and Renewable Energy, 2011

Referred Conferences

- 1- N. M. Mansour, **E. S. Oda**, E. E. Omran and A. A. Abdelsalam, "**An Analytical Investigation Review of DG Impacts on the Relaying Performance in Distribution Networks**," 2021 22nd International Middle East Power Systems Conference (MEPCON), 2021, pp. 137-143, doi: 10.1109/MEPCON50283.2021.9686305.
- 2- Nihal M. Eid, **Eyad S. Oda**, A.A. Abdelsalam,” **Demand-Side Management in Smart Grids Considering Power Quality Issues using Modern AI Algorithm** “, International Conference on Engineering and Technology (ICEST2021), Luxor, Egypt, February 3–4, 2021.
- 3- Emad El Deen o. M., **Oda E. S.**, Mansour N. M., Abdelsalam A. A.,” **Performance Evaluation of Distribution Networks Relaying System Incorporating Distributed Generations**”, The Seventh Young Researchers Conference - Suez Canal University, Egypt, May 16-17, 2020.
- 4- **Eyad S. Oda**, Abdelazeem A. Abdelsalam” **Optimal DGs Allocation in Distribution Networks Using Modified Flower Pollination Algorithm**”, 19th International Middle- East Power Systems Conference -MEPCON'2017 Menoufia University , Menoufia, Egypt, December 19 - 21, 2017.
- 5- Basem E. Elnaghi, Eng.Ahmed A. Salem, **Eyad S. Oda**," **Experimental and Simulation Verification of Pitch Angle Controller of DFIG Based Wind Energy Conversion System**", International Conference On New Trends for Sustainable Energy – ICNTSE, Pharos University in Alexandria, Alexandria, Egypt, Oct 1-3, 2016.
- 6- **Eyad S. Oda**, Abdelazeem A. Abdelsalam, Mohamed N. Abdelwahhab, and Magdi M. El-Saadawi," **DG Placement and Sizing in Radial Distribution Network Using Bat and Firefly Algorithms**", 1st Future University International Conference on New Energy & Environmental Engineering - ICNEEE 2016, Future University in Egypt, Cairo, Egypt, April 11-14 , 2016
- 7- **Eyad S. Oda**, Abdelazeem A. Abdelsalam, Mohamed N. Abdelwahhab, and Magdi M. El-Saadawi ” **Optimal Capacitor Placement using Flower Pollination Algorithm for Enhancing Distribution System Voltage Profile and Power Loss Reduction**”, 17th

International Middle- East Power Systems Conference -MEPCON'2015 Mansoura University , Mansoura, Egypt, December 15 - 17, 2015.

- 8- **Eyad S. Oda**, Abdelazeem A. Abdelsalam, Mohamed N. Abdelwahhab, and Magdi M. El-Saadawib ” **Distributed Generations Planning for Improving Voltage Profile and Losses Reduction**”, 17th International Middle- East Power Systems Conference -MEPCON'2015 Mansoura University , Mansoura, Egypt, December 15 – 17, 2015.
- 9- E. S. S.Oda, G. A. Mahmoud, W. I. Rashied, ”**Comparative Analysis of Voltage Stability in Radial Distribution Networks with Different Distributed Generation**”, The 15th International Middle-East Power Systems Conference MEPCON 2012, Alexandria, Egypt, 2012

Professional Associations

- Member in the IEEE Power Engineering Society.
- ESEE, Egyptian Syndicate Electrical Engineers.
- Reviewer for IEEE Transaction on Power Delivery.
- Reviewer International Middle-East Power Systems Conference
- Reviewer for Smart Grid and Renewable Energy.
- Assisting in the supervision of student dissertations and projects.
- Participate in research groups such as IEEE student branch.
- Participate in workshops, seminars and information sessions about different topics such as Digital Library Project, Energy, Environments, Scientific Research.
- Active participation in several Conferences.

Community Service

- Test the fire alarm system in student accommodation in the university campus.
- Seminars about energy and environment in Egyptian engineer syndicate Ismailia branch.
- Blood donation campaigns.

Short-Term Assignments

- 40 days training in the center of the Egyptian electric power distribution company (Ismailia- Egypt), 2004.
- 30 days training in ElArish Generation Power Station (North Sinai-Egypt), 2003.

Research Area:

The main interested field of research includes:

- Power system dynamics issues.
- Artificial Intelligence (AI) applications in power system.
- Renewable Energy Sources (Wind energy and solar photovoltaic).

- FACTS Applications in Renewable Energy Systems and Smart Grids.
- Electric Distribution Systems.
- Distributed Generation (DGs), Sizing and Siting using analytical, heuristic and meta- heuristic methods.

Computer Skills:

- International Computer Driving License (ICDL):
 - IT
 - Microsoft Windows
 - Microsoft Word
 - Microsoft Power Point
 - Microsoft Access and Internet
- MATLAB
- MultiSIM
- PSPICE
- Electronics Workbench (EWB)
- Power World
- ETAP
- Mat Power

Laboratory Techniques:

- Setting up power and machine laboratory stations.
- Preparing pre-lab sheets.
- Setting and operating measurement instrumentations laboratories (Analogue & digital voltmeter, ammeter, multimeters, oscilloscopes, Stroboscopes, Tachometers and Data acquisition modules).
- Setting and operating Fluke 434 Power quality analyzer.
- Setting and operating Circuit Monitor 2000 analyzer.
- Setting and running electric circuits laboratories including, single and three-phase power components measurements, Performance and characteristics of Single and three-phase transformers, Transients and frequency response characteristics.
- Setting and running experiments including Transformers, Transmission line, Power system faults, Power measurements for single and three-phase systems, D. C., Induction and synchronous machines, voltage stability and reactive power compensation.
- Setting and running control system laboratories including open loop, closed loop control system, gain adjustment and speed control.
- Setting and running electronic circuit laboratories including, semiconductors circuits experiments and basic electronic circuits experiments.

Name of Referees:

- 1- Prof.Dr Magdi M. El-Saadawi, Professor of Electrical Power, Electrical Engineering Department, Faculty of Engineering, Mansoura University, Dakahlia, Egypt
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saadawi1@gmail.com

- 2- Asso.Prof. Abdelazeem Abdalla Abdelsalam, Associated Professor of Electrical Power. Electrical Engineering Department, Faculty of Engineering, Suez Canal University, Ismailia, Egypt.
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