

البند الرابع
السيرة الذاتية معتمدة.

Ahmed Abd El-Baset Hassan Ahmed Donkol

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Profile

Ambitious, can achieve goals, and hard worker.

Career Objective

Seeking a job in the field of teaching that can match my knowledge and allow me develop my skills.

Education

- | | |
|-----------------------|--|
| 2023 – Present | Lecturer at South Valley University (SVU). |
| 2018 – Present | Lecturer at Nahda University Beni-Suef (NUB). Head of schedule's committee. |
| 2015 – 2018 | Ph. D in Electrical Department, Assiut University, Assiut, Egypt.
Thesis Title: Optimal Control of Interconnected Power Systems in Presence of Renewable Energy Sources. |
| 2012 – 2018 | Teaching Assistant at Nahda University Beni-Suef (NUB). |
| 2012 – 2015 | M.Sc. in Digital Image Processing, Assiut University, Assiut, Egypt.
Thesis Title: Edge Detection of Images Using Spatial Transformation. |
| 2011 - 2012 | 9-Month Diploma, Cloud Administrator Track, Information Technology Institute (ITI), Ministry of Communications and Information Technology (MCIT). |
| 2010 – 2011 | Pre-Master Assiut University. |
| 2005 – 2010 | B.Sc. of Electricity, Communication and Electronics Department, Faculty of Engineering, Assiut University, Assiut, Egypt. |

Accumulation Grade: Very Good.
Graduation Project Title: Medical Devices.
Graduation Project Grade: Excellent.

2003 – 2005 El-Askria Secondary School.
Grade: 97.3%.

Teaching Skills (14 years' experience in teaching)

- Calculus 1 & 2 & 3.
- Differential Equations.
- Linear Algebra.
- Statistics.
- Physics 1 & 2.
- Electronic Devices.
- Mobile Communications (GSM & GPRS & UMTS & HSPA & LTE).
- Electronics Engineering.
- Electronics 1 & 2 & 3 & 4.
- Electromagnetic Waves.
- Computer Vision.
- Signals and Systems & Digital Signal Processing (DSP).
- Circuits 1 & 2.
- Analog Communications.
- Digital Communications.
- Mobile Communications.
- Linux (Red Hat) & Operating Systems.
- Cloud Computing.
- Computer Skills.
- Programming C++, C# (.Net), Python.
- Data Algorithms and Structures.
- Computer Engineering 1& 2.
- Database.
- Web Programming.
- Mobile Programming (Flutter).

- Windows Programming.
- Computer Organization and architecture.
- Microprocessor.
- Embedded systems.
- Microcontrollers.
- VHDL.
- Artificial Intelligence (AI).
- Machine Learning (Unsupervised – Supervised - Reinforcement - Ensemble Methods - Neural Nets and Deep Learning).
- Classical Learning (Supervised – Unsupervised).
- Supervised (SVM, Naive Bayes, Random Forest, K Nearest Neighbours, logistic regression) Classification.
- Supervised (Simple Linear - Multiple Linear – Polynomial) Regression.
- Unsupervised (Fuzzy C-Means, Mean-Shift, K-means, DBSCAN, Agglomerative) Clustering
- Unsupervised (Euclat – Apriori – FP-Growth) Pattern search
- Unsupervised (t-SNE – PCA – LSA – SVD – LDA) Reduction Dimension (generalization)
- Reinforcement Learning (Genetic Algorithm – A3C – SARSA – Q-Learning – DQN).
- Ensemble Methods (Stacking – Bagging (Random Forest) – Boosting).
- Neural Nets and Deep Learning.
- CNN - RNN (LSM-LSTM-GRU) - GAN - Auto encoders (sed2seq).
- TensorFlow – Keras – Skleran.

Academic Advising Skills (14 years' experience)

- Help students reach their educational and career goals.
- Head of schedule's committee.

Technical Skills

- Linux Operating System.

- Red Hat system Administration1.
- Red Hat system Administration2.
- Red Hat system Administration3.
- Red Hat Network and Security.
- Red Hat Enterprise Virtualization.
- Red Hat Enterprise Deployment and Systems Management.
- Red Hat Cloud Architecture.
- Ubuntu Administration and Enterprise Cloud.
- Cloud Security Fundamentals.
- Windows Azure for Administrator.
- Windows Server 2008 Network Infrastructure.
- Windows Server 2008 Active Directory.
- Enterprise Virtualization Using Microsoft Hyper-V.
- Good Knowledge in C++, C#, MATLAB programming language.
- Cisco Certified Network Associate (CCNA).

Personal Skills

- Effective Presenter.
- Good Communicator.

Research Profiles

Web of Science ResearcherID: IZD-7557-2023

<https://www.webofscience.com/wos/author/record/IZD-7557-2023>

Orcid account:

<https://orcid.org/0000-0002-2007-8214>

Google Scholar link:

<https://scholar.google.com/citations?user=Un7PWuYAAAAJ&hl=en>

Scientific Research Publications (15 Papers)

1. Published 2014: **“Edge Detection with a Preprocessing Approach”**

Available online:

<https://doi.org/10.4236/jsip.2014.54015>.

2. Published 2014: **“Enhancement of Gabor Directional Wavelet Edge Detection Method”**
Available online:
<http://ijeir.org/index.php/issue?view=publication&task=show&id=386>.
3. Published 2017: **“Ant Colony PID Controllers for Nonlinear Load Frequency Control System”**
Available online:
<http://infomesr.org/en/scientific-research/journals/current-journals/132>.
4. Published 2018: **“PI Multi-Objective Genetic for LFC Based Different Wind Penetration”**
Available online: <https://doi.org/10.4236/jpee.2018.67005>.
5. Published 2019: **“Water Cycle Algorithm Optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System”**
Available online:
<https://doi.org/10.1109/mepcon47431.2019.9008054>
6. Published 2021: **“Optimal Design of Fraction-Order Proportional-Derivative Proportional-Integral Controller for LFC Of Thermal-Thermal-Wind Turbines Considering Nonlinearities”**
Available online:
<https://doi.org/10.21608/jaet.2021.64407.1090>.
7. Published 2021: **“Harris Hawks-Based Optimization Algorithm for Automatic LFC of the Interconnected Power System Using PD-PI Cascade Control”**
Available online:
<https://doi.org/10.1007/s42835-021-00729-1>
8. Published 2021: **“Anomalies Detection in Smart Manufacturing Using Machine Learning and Deep Learning Algorithms”**
Available online:
<http://www.scopus.com/inward/record.url?eid=2-s2.0-85126253779&partnerID=MN8TOARS>

9. Published 2022: **“Reconfigurable graphene-based metamaterial polarization converter for terahertz applications”**.
Available online:
<https://doi.org/10.1007/s11082-022-04163-z>
10. Published 2022: **“Controller parameters tuning of water cycle algorithm and its application to load frequency control of multi-area power systems using TD-TI cascade control”**
Available online:
<https://doi.org/10.1007/s12530-020-09363-0>
11. Published 2022: **“Optimal Design of Fraction-Order Proportional-Derivative Proportional-Integral Controller for LFC of Thermal-Thermal-Wind Turbines Considering Nonlinearities”** Available online:
<https://dx.doi.org/10.21608/jaet.2021.64407.1090>
12. Published 2022: **“Controller parameters tuning of water cycle algorithm and its application to load frequency control of multi-area power systems using TD-TI cascade control.”**
Available online:
<https://doi.org/10.1007/s12530-020-09363-0>
13. Published 2023: **“High-gain reconfigurable polarization antenna based on metamaterial array for Terahertz applications”**.
Available online:
<https://doi.org/10.1007/s11082-023-04662-7>
14. Published 2023: **“Optimal design of a cascade controller for frequency stability of photovoltaic–reheat thermal power systems considering nonlinearities”**.
Available online:
<https://doi.org/10.1007/s11082-023-04583-5>

15. Published 2023: **“Optimization of Intrusion Detection Using Likely Point PSO and Enhanced LSTM-RNN Hybrid Technique in Communication Networks”**
Available online:
<https://doi.org/10.1109/access.2023.3240109>
16. Published 2024: **“Genetic Optimization for Self-Driving Vehicles Based on Automated Behavior Cloning Convolutional Neural Network”**
Available online:
<https://dx.doi.org/10.21608/jaet.2022.144496.1198>
17. Published 2024: **“COVID-19 Detection using Transfer Learning Approach through Chest X-Ray Images.”**
Available online:
<https://doi.org/10.21608/jaet.2022.145059.1207>
18. Published 2024: **“Classification of Diabetic Retinopathy (DR) using ECA Attention Mechanism Deep Learning Networks.”**
Available online:
<https://dx.doi.org/10.21608/jaet.2022.145091.1210>
19. Published 2024: **“Highly Efficient Machine Learning Approach for Automatic Disease and Color Classification of Olive Fruits”**
Available online:
<https://doi.org/10.1109/ACCESS.2024.3362294>