Ahmed Abd El-Baset Hassan Ahmed Donkol

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Profile

Ambitious, has the ability to achieve goals, and hard worker.

Career Objective

Seeking for 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. Title of Thesis: An 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. Title of Thesis: 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 Department,	B.Sc. of Electricity, Communication and Electronics Department, Faculty of Engineering, Assiut University, Assiut, Egypt. **Accumulation Grade**: Very Good.

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Graduation Project Title: Medical Devices.
Graduation Project Grade: Excellent.

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

Teaching Skills (10 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.
- Computer Organization and architecture.
- VHDL.
- Artificial Intelligence (AI).

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- 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 (12 years' experience)

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

Technical Skills

- Linux Operating System.
- Red Hat system Adminstiration1.
- Red Hat system Adminstiration2.
- Red Hat system Adminstiration3.
- Red Hat Network and Security.
- Red Hat Enterprise Virtualization.
- Red Hat Enterprise Deployment and Systems Management.
- Red Hat Cloud Architecture.

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- 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.

Scientific Research Publications   (11 Papers)

1. Published 2014: **"Edge Detection with a Preprocessing Approach"** Available online:
     i. http://www.scirp.org/Journal/PaperInformation.aspx?PaperID=50479.

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 2020: **"Water Cycle Algorithm Optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System"** Available online:

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https://ieeexplore.ieee.org/document/9008054

6. Published 2021: **"Harris Hawks-Based Optimization Algorithm for Automatic LFC of the Interconnected Power System Using PD-PI Cascade Control"** Available online:

https://link.springer.com/article/10.1007/s42835-021-00729-1

7. Published 2021: "**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://link.springer.com/article/10.1007/s12530-020-09363-0

8. Published 2021: "**OPTIMAL DESIGN OF FRACTION-ORDER PROPORTIONAL-DERIVATIVE PROPORTIONAL-INTEGRAL CONTROLLER FOR LFC OF THERMAL-THERMAL-WIND TURBINES CONSIDERING NONLINEARITIES**" Available online:

https://journals.ekb.eg/article_190002.html

9. Published 2022: "**Design of a Novel Stator and Rotor Resistances Estimator for Sensor less Induction Motor Drives**"

Google Scholar link

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

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