

CV



Personal Data

Name Yahia Bahaa EL din Hassan
Nationality Egyptian
Birth Date 14 / 7 /1975
Military Service Finished
Social status Married
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URL: <http://www.icgst-amc.com/institute/Community.aspx?InstId=3&aid=3042>
<https://www.scopus.com/authid/detail.uri?authorId=57211022623>
<https://scholar.google.com.eg/citations?user=XDbH50MAAAAJ&hl=en>
<https://www.researchgate.net/profile/Yahia-Hassan-3>

EDUCATIONAL QUALIFICATIONS

College Faculty of Electronic Engineering
University Menofia University
Graduation Degree Bachelor in Computer Science Engineering (MAY 1999)
Graduation Project Computer Networks (LAN & WAN) with practical applications on LAN design, installation and administration.
Graduation Project Degree **Excellent**

Computer Skills

Operating Systems: Dos 6.22, Windows (3.11,95,98,NT4 workstation,NT4 server,7,8,10) Win 2000 (workstation, server, active directory, infrastructure) and Win 2003,2008 server.
Programming Language: Assembly, Visual basic, Pascal, C, C++, Paython.

AREA OF INTEREST:

Computer Engineering

Computer networks

Advanced Computer networks

Network Communication

Information and Communication Technology

Embedded Systems

Renewable Energy

Artificial Intelligence

Machine learning

Graduate Studies:

- **M.Sc degree** in electric and computer engineering - **Minia University**

" Development in computer networks and their applications ".

- Passed the exams to get the master degree with highest rate.

- The paper of the master has been presented and published on the international conference of **MEPCON 2006** under supervision of **IEEE**.

" The development of smart switch system for the automation system
in power utilities" **MEPCON 2006- IEEE**

- **Ph.D degree** in electric and computer engineering - **Minia University** " Employing
Computer Networking of SCADA System for Advanced Smart Grids"

- paper has been accepted on **ICGST**, international conference on Recent
Advances in Energy and Power Systems, **RAEPS 2012**.

"Increasing The Reliability Of Supervisory Control and Data
Acquisition systems"

- Paper has been accepted on International Journal of Recent Development in Engineering
and Technology (ISSN 2347-6435, Volume 3, Issue 1, July 2014).

"Recent Trends in SCADA and Power Factor Compensation
on low Voltage Power Systems for Advanced Smart Grid"

- Paper has been accepted on International Journal of Computer and Information Technology (IJCIT) (ISSN: 2279 – 0764) Volume 04 – Issue 03, May 2015

" An Integrated Solution for Developing SCADA System towards Smart Electric Grid"

Work experience

1- Job title ***IT administrator*** for Mass Food Company. (1 year)

Job responsibilities :

- Computers maintenance (software-hardware).
- Troubleshooting of LAN & WAN (software-hardware).
- LAN & WAN administrator and technical support for **Oracle**.

2- Job title ***Computer network engineer*** (1 year)

for super wave company which is authorized for **AVAYA** technologies (**Lucent**).

Job responsibilities:

- Design, install, administration and maintenance for computer networks.
- Provide structured connectivity solutions.
- Determine all the requirements of the desired network.
- Configure switches and routers.

3 - Job title ***computer engineer*** (5 years)

Middle Egypt Electricity Distribution Company (**MEEDCO)**

job responsibilities :

- Install and program of electric digital meters.
- Install and program of energy analysis devices.
- Install and program of variable capacitors banks.
- Computer networks , control and protection engineer for **SCADA** systems .
- Installation and commissioning for **SCADA** project of MEEDCO under supervision of **FOXBORO** company
- **Computer & Electrical Engineering trainer** at the **training center of MEEDCO**.

4- **Job title Trainer and Head of Computer Dep.** for **10 years**
(From 2008 to 2018) Technical and Vocational Training Corporation (TVTC)
Technical College - Wadi AL Dawaser – Kingdom of Saudi Arabia.

Job responsibilities:

1- **Teaching the following subjects**

- Computer Essential (IT Essentials)
- Information Systems
- Computer Organization and Architecture (A+)
- Digital logic Circuits
- Microprocessors
- Computer Networks I,II and III (CCNA-CCNP)
- Operating systems
- Electric Circuits I , II
- Electronic Circuits I and II
- Electrical Power

2- **Faculty Council member:** from January 2009 to June 2018.

3- **Director of Quality Assurance Unit:** from March 2012 to July 2014.

Certificate of Accreditation from ACCET

4- **Head of Computer Department:** from October 2013 to June 2018.

5- Job title **Lecture and head of electrical engineering department.**
Higher institute of engineering in Minia from 1/8/2018 to 31/8/2021.

Job responsibilities:

Teaching the following subjects

- Digital logic Circuits
- Microprocessors
- Electric Circuits I
- Electric Circuits II
- Quality Monitoring and Control System
- Electronic Circuits I
- Electronic Circuits II
- Electrical measurements and testing
- Solar Energy

7- Job title Lecture at Egyptian government academy - Sadat Academy for Administrative Sciences - Department of Computer and Information Systems

(from 2022 up till now)

Job responsibilities:

Teaching the following subjects:

- Introduction to Information Technology
- Computer Networks Fundamentals
(Theoretical lectures and Labs)
- C++ Programming Language
(Theoretical lectures and Labs)
- Python Programming Language
- Science and Technology
- Management Information Systems
- Enterprise Applications

Publications

- Text Book to be published“ Towards Smart Grid ”, LAP LAMBERT Academic Publishing house, Germany.
- International Journal of Advanced Computer Science and Applications (IJACSA) - Volume 10 No 8 August 2019. "[Modified Farmland Fertility Optimization Algorithm for Optimal Design of A Grid-Connected Hybrid Renewable Energy System with Fuel Cell storage; Case Study of Ataka, Egypt](#)"
- International Journal of Engineering Research and Technology. ISSN 0974-3154, Volume 12, Number 10 October (2019), pp. 1707-1716 "[Stability Enhancement of Multi-Machine Power System interconnected with Wind and PV plants Using Fuzzy Logic-based FACTS Controller](#)"
- International Conference on Engineering Science and Technology (ICEST), December 4–5, 2019 in Luxor, Egypt "[Comparison of Egyptian Standards for Grid-Connected Photovoltaic Power Plants with IEC and IEEE: A Case Study in Egypt](#)"

- International Journal of Advanced Science and Technology, Vol. 28, No. 16, (2019), pp. 856 - 870 "[Comparison of Egyptian Standards for Grid-Connected Photovoltaic Power Plants with IEC and IEEE: A Case Study in Egypt](#)"
- Egyptian Computer Science Journal (ECSJ), ISSN-1110-2586, Vol.44 No.1 January 2020 " [Design and Implementation of a New DNA Based Stream Cipher Algorithm using Python](#)"
- IEEE Access (Q1) ISSN: 2169-3536 , VOLUME: 8, ISSUE:1, ON PAGE(S): 102512-102529, DOI: 10.1109/ACCESS.2020.2998720, June 2020 "[Optimization and Energy Management of Hybrid Photovoltaic-Diesel-Battery System to Pump and Desalinate Water at Isolated Regions](#)"
- IEEE Access (Q1) , ISSN: 2169-3536 , VOLUME: 8, ISSUE:1, ON PAGE(S): 174860 - 174870, DOI: 10.1109/ACCESS.2020.3025389, September 2020"[Research, Development and Application of Hybrid Model of Back-to-Back HVDC Link](#)"
- Journal of Advanced Engineering Trends, ISSN 2682-2091 2021, Vol. 40, No. 1.P 79-96, January 2021 "[PERFORMANCE ANALYSIS OF A SMALL-SCALE GRID-CONNECTED PHOTOVOLTAIC SYSTEM:A REAL CASE STUDY IN EGYPT](#)"
- International Conference on Advanced Machine Learning Technologies and Applications, Springer ISSN 978-3-030-69717-4, vol 1339, https://doi.org/10.1007/978-3-030-69717-4_106, March 2021, pp 1131-1140 "[Design and Implementation of a Web-DNA-Based Security Provider Using Python](#)"
- Egyptian Computer Science Journal Vol. 44 No.1 January 2020- ISSN-1110-2586 " [Design and Implementation of a New DNA Based Stream Cipher Algorithm using Python](#) "
- Journal of Advanced Engineering Trends, ISSN 2682-2091 2022, Vol. 42, No. 1.P 131-139, January 2021 " [A proposed Estimation for High Performance Level of VVoIP System on a live Service IMS Network](#)".
- Egyptian Computer Science Journal Vol. 46 No.2 September 2022 ISSN-1110-2586 "[Design and Implementation of a Surveillance Smart Home Robot](#)"

- Energies Journal (Q1) - November 2022, Volume 15, Issue 22, 8494
"Application of Artificial Intelligence to Improve the Thermal Energy and Exergy of Nanofluid-Based PV Thermal/Nano-Enhanced Phase Change Material".
- International Journal of Wireless and Ad Hoc Communication - January 2023- Vol. 07, No. 02, PP. 56-63 , DOI:10.54216/IJWAC.070204.
"Mitigating Cybersecurity Threats in Modern Networks Using Intelligent Approach".
- Sustainability Journal (Q1) - February 2023, Volume 15, Issue 4, 3730
" Maximizing Bio-Hydrogen Production from an Innovative Microbial Electrolysis Cell Using Artificial Intelligence".
- International Journal of Wireless and Ad Hoc Communication - January 2024- Vol. 08, No. 01, PP. 40-50, DOI: 10.54216/IJWAC.080105 .
"The Emerging Role of Wearable Health Technologies in Proactive Disease Prevention"
- **International Journal of Electrical and Computer Engineering (IJECE) (Q2)**, ISSN 2088-8708, e-ISSN 2722-2578- Accepted 4/2024- "Robust parameter determination approach based on red-tailed hawk optimization used for lithium-ion battery"
- **International Journal of Computational Intelligence Systems (Q2)** - Accepted 5/2024 - "A Computational Intelligence System for Analyzing Sentiment in Arabic Tweets" (IJCI-D-24-00028R2).
- **International Journal of Computational Intelligence Systems (Q2)** - Accepted 6/2024 - "Implementing Chaos Theory and Intelligence Techniques for improved Arrhythmia Diagnosis " (IJCI-D-24-00027R2).
- **International Journal of Neural Computing and Applications (Q1)**- Accepted: 16 November 2024-"Computational intelligence approach to automated sentiment analysis of Arabic tweets"[https://doi.org/10.1007/s00521-024-10808-9\(0123456789](https://doi.org/10.1007/s00521-024-10808-9(0123456789)

researchgate.net/profile/Yahia-Hassan-3

Yahia Bahaa Hassan

Higher institute of engineering in menia - Electrical and Computer Engineering
Doctor of Electrical and Computer Engineering

37 Publications 24,544 Reads 148 Citations

Current Institution: Higher institute of engineering in menia

Current position: Professor (Assistant)

Scopus Preview

Explore this author profile on Scopus Preview

Hassan, Yahia B.

Higher Institute of Engineering, Minya, Egypt | 57211022623 | https://orcid.org/0000-0003-1701-2502

97 Citations by 96 documents | 11 Documents | 4 h-index

11 Documents | Impact | Cited by 96 documents | 0 Preprints | 43 Co-Authors | 0 Topics | Awarded Grants

Note: Scopus Preview users can only view an author's last 10 documents, while most other features are disabled.

Google Scholar

Yahia Bahaa Hassan

Lecture and head of electrical and computer engineering
Verified email at mei.edu.eg

Computer Networking-emb... | Renewable energy | smart Grid | smart home | Artificial intelligence and int...

Cited by

	All	Since 2020
Citations	161	154
h-index	5	5
i10-index	3	3

Bar chart showing citations from 2018 to 2025.

1. A proposed Estimation for High Performance Level of VVoIP System on a live Service IMS Network (2022)

2. An Integrated Solution for Developing SCADA System towards Smart Electric Grid (2015)

3. Application of artificial intelligence to improve the thermal energy and exerav of nanofluid-based (2022)

SUPERVISED ON THE FOLLOWING BSC GRADUATE PROJECTS:

- Electrical distribution systems based on IOT technology
- Autonomous car
- Design and Implementation of x8086 Microprocessor using FPGA
- Building a Secure Institutional Network
- Inventory control system Management with automated Smart warehouse

Supervision of master's theses awarded

1- Master's thesis title

"Design and Implementation of A DNA –Based Security Provider Using Python" (2021)

2- Master's thesis title

"Improving of 3ph grid connected PV system using intelligent controllers" (2021)

3- Master's thesis title

"VVoIP Call Quality Improvement Techniques" (2022)

4- Master's thesis title

"Remotelly Controlled Land Vehicle Application " (2023)

English Skills:

TOEFL.ITP

Name of Institution : AMIDEAST

Times Taken TOEFL : 0

Total Score: 473

Award:

Certificate of Appreciations (**Session Chair**) for serving as chairperson in the International Conference on Engineering Science and Technology (ICEST2019) held on 4–5 December 2019 , Luxor, Egypt.