Contact Information
Name: Dr. Mohammed Kamal Abdel Salam Ali Hassan
Address: 55 El-Esraa St., Villa Dr. Kamal, Mansoura, Egypt.
Phone contacts: 01020304100
Email address: mkhassan@horus.edu.eg & Dr.Mohammed.kamal@outlook.com   **Google Scholar:** https://scholar.google.com/citations?user=K1j5TRYAAAAJ&hl=en   **Research gate:** https://www.researchgate.net/profile/Mohammed-Hassan-133   **Web of Science:** https://www.webofscience.com/wos/author/record/ABJ-7333-2022   **ORCID:** https://orcid.org/0000-0001-5998-0494   **SCOPUS:** https://www.scopus.com/authid/detail.uri?authorId=57201949998

Education/ Academic qualifications (start with your most recent education first)

Year	School / University	Specialization	Degree
2018	Faculty of Engineering, Mansoura University	Computer Engineering and Systems	Doctorate
2010	Faculty of Engineering, Mansoura University	Computer Engineering and Systems	Master's
2001	Information Technology Institute (ITI), Egyptian Minister's cabinet	Electronic Business Solutions (EBS)	IT Diploma
1999	Faculty of Engineering, Mansoura University	Electronics Engineering (Computer engineering and automatic control)	Bachelor's

Academic Employment History (start with your most recent education first)

From:	To:	University / Organization	Title of Position
2019	Now	Horus University in Egypt (HUE)	Assistant Professor
2018	Now	• Mansoura University – Faculty of Engineering • Nile Higher Institute for Engineering and Technology • Nile Higher Institute for Commercial Sciences and Computer Technology • Higher Institute of Computer and Business Administration • Raya Higher Institute for Management and Foreign Trade	Visiting Assistant Professor (Part-Time)
2013	2018	AL Wadi Higher Institute for Engineering and Technology (Seconded as IT Consultant – AIMS Kuwait)	Assistant Lecturer
2003	2018	AIMS, ICCR, MOI – Kuwait (International and Arabian Interpol)	IT Consultant
2001	2003	CITC - Egyptian Ministers' Cabinet - Egypt	IT Consultant

Administrative Positions:

From:	To:	University / Organization	Title of Position
2023	Now	Horus University in Egypt (HUE)	Engineering Alumni Unit (EAU)
2020	Now	Horus University in Egypt (HUE)	Director of Electronic Services and Scientific Innovation Center (ESSIC)

I do hereby declare that the information furnished above is true to the best of my knowledge.

Name: Dr. Mohammed Kamal

Signature: *Dr.Mohammed Kamal*

2003	2018	AIMS, ICCR, MOI – Kuwait (International and Arabian Interpol)	IT Training Consultant / Research and Development Consultant
2001	2003	CITC - Egyptian Ministers' Cabinet - Egypt	IT Consultant

Teaching Experience (Courses, Language, Higher Education Only)

➢ Participate in the design, coordination, execution, evaluation, and refinement of the unit syllabus for learning outcomes following accreditation requirements.

➢ Prepare and develop descriptions and summaries of units included in the curriculum.

➢ Prepare learning resources that need to be in the library as a reference for students.

➢ Determination of needed IT resources to facilitate academic plans.

➢ Teaching and execution of unit syllabus to enable students to achieve success.

➢ Act as an academic advisor across multiple units to the students with regular follow-up on their progress

➢ Evaluate, monitor, and mentor students' academic progress.

➢ Prepare assessments to evaluate and improve student performance.

➢ Maintain accurate records of student data such as grades and attendance.

➢ Supervision of students' projects

➢ Participate in laboratory activity as required.

➢ Guide, lead, and mentor students in research projects

➢ Supervise and support teaching assistants.

➢ Participate in departmental and college activities.

➢ Actively contribute to serving society

➢ Participate in graduation ceremonies.

Courses:

- Digital and logic circuits
- Microprocessors and applications
- Software Engineering
- Artificial Intelligence (AI)
- Machine Learning
- Decision Analysis
- Computers for Engineers
- Microcontroller
- Embedded Systems
- Automatic control
- Modeling and simulation
- Electrical Circuits
- Principles of Electrical Engineering
- Principal of Electronics Engineering

I do hereby declare that the information furnished above is true to the best of my knowledge.

Name: Dr. Mohammed Kamal   **Signature:** *Dr.Mohammed Kamal*

- Statistics and probability theory for engineers.
- Technical Report writing for engineers.
- computer architecture
- Network and information security
- Introduction to Operating Systems
- Introduction to Computer science
- Databases Fundamentals
- Advanced Database
- Information and Communication Technology (ICT)
- Programming
- Office applications packages
- Commercial applications using computers.
- Computer applications in reporting
- Data mining
- C Programming
- Data structure and algorithms

Publications:

Identify type of publication: book, refereed article, book chapter, journal article, non-refereed paper, major report, technical reports, research funds/grants

[1] **M.K. Hassan**, A.O. Abdel-Gawad, A.I. Saleh, Building Compact and Accurate Classifier (Modified Strong Jumping Emerging Patterns) for Fast and Efficient Mining and for handling attributes whose values are associated with taxonomies, Ain Shams J. Electr. Eng. 2 (2009) 233–249.

[2] **M.K. Hassan,** A.O. Abdel-Gawad, and A.I. Saleh: "Building Compact and Accurate Classifier "Modified Strong Jumping Emerging Patterns" for Fast and Efficient Mining". 7th International Engineering Conference-Mansoura University, Sharm Elsheikh Egypt, Mar 2010.

[3] **M.K. Hassan**, A.M. Sarhan, A.I. El-Dosouki, Semantic Web against Classic Web (Contender or Natural Evolution), Int. J. Adv. Res. Comput. Sci. Softw. Eng. 2 (2012) 54–61.

[4] **M.K. Hassan**, A.I. El Desouky, S.M. Elghamrawy, A.M. Sarhan, Intelligent hybrid remote patient-monitoring model with cloud-based framework for knowledge discovery, Comput. Electr. Eng. (2018). **doi: https://doi.org/10.1016/j.compeleceng.2018.02.032**

[5] **M.K. Hassan**, A.I. El Desouky, M.M. Badawy, A.M. Sarhan, M. Elhoseny, . Gunasekaran, EoT driven Hybrid Ambient Assisted Living Framework with Naïve Bayes-Firefly Algorithm, Neural Comput Applic. (2019). **doi:https://doi.org/10.1007/s00521-018-3533-y**

[6] **Hassan M.K.,** El Desouky A.I., Elghamrawy S.M., Sarhan A.M. (2019) Big Data

I do hereby declare that the information furnished above is true to the best of my knowledge.

Name: Dr. Mohammed Kamal   **Signature:** *Dr.Mohammed Kamal*

Challenges and Opportunities in Healthcare Informatics and Smart Hospitals. In: Hassanien A., Elhoseny M., Ahmed S., Singh A. (eds) Security in Smart Cities: Models, Applications, and Challenges. Lecture Notes in Intelligent Transportation and Infrastructure. Springer, Cham: **doi:https://doi.org/10.1007/978-3-030-01560-2_1**

[7] **M.K. Hassan**, A.I. El Desouky, S.M. Elghamrawy, A.M. Sarhan, A Hybrid Real-time Remote Monitoring Framework with NB-WOA algorithm for patients with chronic diseases, Future generation computer systems (2019). **doi:https://doi.org/10.1016/j.future.2018.10.021**

[8] **Mohammed K. Hassan** ,Ahmed K. Hassan,Ali I. Eldesouky. "MSJEP Classifier: "Modified Strong Jumping Emerging Patterns" for Fast Efficient Mining and for handling attributes whose values are associated with taxonomies." Journal of Intelligent Systems and Internet of Things, 0 no. 2 (2019): 37-53. **Doi:https://doi.org/10.54216/JISIoT.000201**

[9] Ibrahim M. EL-Hasnony,Mohamed Elhoseny,**Mohammed K. Hassan.** "Intelligent Neighborhood Indexing Sequence Model for Healthcare Data Encoding." Journal of Intelligent Systems and Internet of Things, 0 no. 1 (2019): 15-25.
Doi:https://doi.org/10.54216/JISIoT.000102

[10] K. Liu, M. Zhang, and **M. K. Hassan**, "Intelligent image recognition system for detecting abnormal features of scenic spots based on deep learning," J. Intell. Fuzzy Syst., no. Preprint, pp. 1–11. (2020)

[11] Mohammed K. Hassan,Dina K. Hassan,Ahmed K. Metawee,Bassem Hassan. "An Optimal Clustering with Hybrid Metaheuristic Algorithm for Sentiment Analysis and Classification." American Journal of Business and Operations Research, 4 no. 2 (2021): 49-56. **Doi:https://doi.org/10.54216/AJBOR.040201**

[12] Suhong Yang, Mohammed k. Hassan, Vinay kumar, "PSE and ISE Based E-Commerce Model Design of Sharing Enterprises", Wireless Communications and Mobile Computing, vol. 2022, Article ID 7134861, 9 pages, 2022.

doi:https://doi.org/10.1155/2022/7134861

[13] Magdy M. Fadel, Sally M. El-Ghamrawy, Amr M.T. Ali-Eldin, **Mohammed K. Hassan** and Ali I. El-Desoky, " HDLIDP: A Hybrid Deep Learning Intrusion Detection and Prevention Framework ", Computers, Materials and Continua , 2022.

DOI: 10.32604/cmc.2022.028287

[14] Fadel, Magdy M., Sally M. El-Ghamrawy, Amr MT Ali-Eldin, **Mohammed K. Hassan**, and Ali I. El-Desoky. "The proposed hybrid deep learning intrusion prediction IoT (HDLIP-IoT) framework." PLoS ONE 17, no. 7 (2022): e0271436.

DOI: https://doi.org/10.1371/journal.pone.0271436

I do hereby declare that the information furnished above is true to the best of my knowledge.

Name: Dr. Mohammed Kamal   **Signature:** *Dr.Mohammed Kamal*

[15] Taher, Fatma, Mohamed Elhoseny, **Mohammed K. Hassan**, and Ibrahim M. El-Hasnony. "A Novel Tunicate Swarm Algorithm With Hybrid Deep Learning Enabled Attack Detection for Secure IoT Environment." IEEE Access 10 (2022): 127192-127204. **DOI: https://doi.org/10.1109/ACCESS.2022.3226879**

[16] Abdel-Monem, Ahmed, **Mohammed K. Hassan**, Ahmed Abdelhafeez, and Shimaa S. Mohamed. "Neutrosophic Set Hybrid MCDM Methodology for Choosing Best Surfactant-Free Microemulsion Oils within Performance and Emission Criteria Over a Wide Range of Engine Loads." Neutrosophic Sets and Systems 56 (2023): 190-199.

[17] Omer Alkelany, Hatem Khater, **Mohamed Kamal**, Hosam E. Mostafa, "Preliminary Evaluation of Experiential Learning in Engineering Pedagogy for Undergraduate Students Learning Logic Design Concepts".

[18] Omer Alkelany, Hatem Khater, **Mohamed Kamal**, Hosam E. Mostafa, "Survey and Evaluation of Applied Modern Engineering Pedagogy" to the First International Conference on Engineering Solutions toward Sustainable Development (ESSD-2023).

[19] Elsayed, W. M., El-Shafeiy, E., Elhoseny, M., & Hassan, M. K. (2023). Self-Configuration Management towards Fix-Distributed Byzantine Sensors for Clustering Schemes in Wireless Sensor Networks. Journal of Sensor and Actuator Networks, 12(5), 74.

[20] Elshafey, A., & Hassan, M. (2023). HEMA: A Proposed Robot for Improving Healthcare Access in Underserved Communities. Journal of Engineering Research, 7(5), 208-219.

Academic Activities

Other Relevant Experience

Consultancy, Community Involvement, Voluntary Work, Translation of books, Journal reviewing, mentoring of junior staff, Service to the discipline, Editing/refereeing for scholarly journals…etc.

- **Reviewer in the following journals:**
  - ❖ American Journal of Data Mining and Knowledge Discovery (AJDMKD)
  - ❖ Information Resources Management Journal (IRMJ)
  - ❖ Earthquake Engineering and Engineering Vibration
  - ❖ Probe - Computer Science & Information Technology Journal
  - ❖ Journal of Electrical and Electronic Engineering (JEEE)
  - ❖ Informatics for Health and Social Care (Taylor & Francis)

- **Editorial review board**
  - ❖ International Journal of Smart Sensor Technologies and Applications (IJSSTA)
  - ❖ Journal of Intelligent Systems and Internet of Things (JISIoT)
  - ❖ International Journal of Mobile Devices, Wearable Technology, and Flexible Electronics (IJMDWTFE).

I do hereby declare that the information furnished above is true to the best of my knowledge.

Name: Dr. Mohammed Kamal   **Signature:** *Dr.Mohammed Kamal*

HUE
HORUS UNIVERSITY IN EGYPT

Conferences

[1] 7th International Engineering Conference-Mansoura University, Sharm Elsheikh Egypt, Mar 2010.

[2] The First International Conference on Sustainable Development (1st ICSD), 2020, Higher Institute of Computer and Business Administration, Alzarka, Damietta and Faculty of Commerce – Damietta University, Ras Albar, Damietta, Egypt.

[3] The First The First Online Arab Science Week, 2020, Imam Abdulrahman Bin Faisal University, College of Science and Humanities – Computer Science & SRGE.

[4] The 2nd International Conference on Distributed Sensing and Intelligent Systems (ICDSIS), 2021, Hefei, China (springer).

Technical Program Committee/ Review Board.

[5] The Fifth International Undergraduate Research Conference (IUGRC 2021), Military Technical College, August 2021, Cairo, Egypt.

[6] The 3rd International Conference on Distributed Sensing and Intelligent Systems

(ICDSIS), 2022, University of Sharjah, Dubai, UAE (springer).

Technical Program Committee/ Review Board.

[7] The seventh International Undergraduate Research Conference (IUGRC 2023), Military Technical College, July 2023, Cairo, Egypt.

I do hereby declare that the information furnished above is true to the best of my knowledge.

Name: Dr. Mohammed Kamal   **Signature:** *Dr.Mohammed Kamal*