

# C.V.



## Personal information:

**Name** : Abdelwahab Kamel Mohamed Al\_Sammak  
**Degree** : Professor Emeritus , Computer Engineering  
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## Educational information:

- **Ph.D. Degree** in Computer Engineering, Faculty of Engineering (Shoubra), Zagazig University, 1992.
- **Master Degree** in Electronics Engineering, Faculty of Engineering (Shoubra), Zagazig University, 1987.
- **B.Sc.** in Communications and Electronics Engineering, Zagazig University, Faculty of Engineering (Shoubra), excellent with Honor , Ranked Second over the Electrical Engineering Dept., 1982.

## Work Experience:

- ***Dean of Computer Science and Information Systems Institute***, New Cairo Academy, 2021 till now.
- ***Head of computer engineering program***, Faculty of Engineering Shoubra, Benha University, 2012 - 2021.
- ***Professor*** , Faculty of Engineering Shoubra, Benha University, 2019.
- ***Associate Professor***, Faculty of Engineering Shoubra, Benha University, 2010 - 2019.
- ***Manager of Information Technology Center***, Faculty of Engineering Shoubra, Benha University, 2012 - 2015.
- ***Ass. Professor***, Institute of Public administration, Riyadh, Saudi Arabia. ***(1999- 2010)***

- **Lecturer**, MSA University, Faculty of Computer Science & Information. *(1998-1999)*
- **Lecturer**, 6<sup>th</sup> of October University, Faculty of Information Systems & Computer Science. *(1997-1998)*
- **Lecturer**, Faculty of Engineering (Shoubra), Zagazig University, *(1992-1997)*
- **Ass. Lecturer**, Faculty of Engineering (Shoubra), Zagazig University, *(1987- 1992)*
- **Instructor**, Faculty of Engineering (Shoubra), Zagazig University, *(1984- 1987)*

### **Consultations**

- Technical Consultant for the Institute of National Planning Portal Project, "Strengthening the Capacity of Institute of National Planning (INP) Project", INP, Cairo, 2017- 2018.
- Technical Consultant for the Automatic malfunction analysis (AMAN) Project - CFP118, Funded by ITIDA, 2016- 2107.
- Technical Consultant for the Egyptian Universities Portal Project, ICTP, Ministry of High Education, 2012- 2015.
- Technical Consultant for Egyptian Scientific Research Academy & Egyptian Society for Computers, "Arabic Computational Linguistics Project: Arabic Corpus", Cairo, Egypt, 1995-1996.
- Technical Consultant for Egyptian Scientific Research Academy & Egyptian Society for Computers, "Arabic Computational Linguistics Data Base Project", Cairo, Egypt, 1994.
- Technical Consultant for the National Informatics Center (NIC), "Expert System for the Sintering Process", Cairo, 1993.

### **Scientific Activities**

- Member of the Faculty Council, faculty of Engineering, Shoubra, 2017-2022.
- Member of the Electrical Engineering Council, faculty of Engineering, Shoubra, 2010 – 2021.
- Member of the Communications and Computer Engineering Program (Credit Hours), faculty of Engineering, Shoubra, 2016 – 2021.
- Member of the Quality Assurance and Accreditation team, faculty of Engineering, Shoubra, 2010 – 2021.
- Member of the Monitoring Committee of the Private High Institutes of Engineering, Ministry of High Education, 2012- now.
- Member of the Monitoring Committee in the "Engineering Educational Development Project", Ministry of High Education, 1997.

- Head of the Computer Engineering Curriculum Development Committee, Electrical Engineering Department, Faculty of Engineering (Shoubra), Benha University, 2011 - 2021.
- Member of the Curriculum Development Committee, Communications and Computer Engineering Program (Credit Hour), Faculty of Engineering (Shoubra), Benha University, 2016.
- Member of the Curriculum Development Committee, Faculty of Computer Science & Information, MSA University, 1998.
- Member of the Library Development Committee, Faculty of Engineering (Shoubra), Benha University.
- Developing and supervising "The Digital Logic Lab.", Faculty of Engineering (Shoubra), Benha University.
- Developing and supervising "The Computer Lab.", Faculty of Engineering (Shoubra), Benha University.
- Developing and supervising "The Digital Logic Lab.", Faculty of Information Systems & Computer Science, 6th of October University.

### **Published Books**

1. "Development and Management of Software Projects", Institute of Public Administration Press, Riyadh, Saudi Arabia, 2007.
2. "Software Projects Management", Institute of Public Administration Press, Riyadh, Saudi Arabia, 2005.
3. "Systems Analysis Using UML", Institute of Public Administration Press, Riyadh, Saudi Arabia, 2005.
4. "Programming Using JAVA Language", Institute of Public Administration Press, Riyadh, Saudi Arabia, 2003.
5. "Structured Analysis for Information systems", Institute of Public Administration Press, Riyadh, Saudi Arabia, 2002.
6. "Object-Oriented Analysis and Design", Institute of Public Administration Press, Riyadh, Saudi Arabia, 2000.
7. "Object-Oriented Programming Using C++", Institute of Public Administration Press, Riyadh, Saudi Arabia, 1999.

### **Teaching Courses**

1. Digital Logic Design
2. Computer Organization
3. System Analysis and Design
4. Object-Oriented System Analysis and Design Using UML
5. Software Engineering
6. Database Systems & SQL
7. Software Project Management

8. Computer Peripherals
9. Artificial Intelligence
10. Object-Oriented Programming using JAVA and C++
11. Visual Basic Programming
12. Microprocessors and Assembly Language
13. Natural Language Processing

## **Publications**

1. Ismail, S., Shishtawy, T. E., & Alsammak, A. K. "A New Alignment Word-Space Approach for Measuring Semantic Similarity for Arabic Text", International Journal on Semantic Web and Information Systems (IJSWIS), 18(1), 1-18. <http://doi.org/10.4018/IJSWIS.297036>, (2022).
2. Ismail, S., Alsammak, A., & Elshishtawy, T. , "Arabic Semantic-Based Textual Similarity", 1st Annual Conference of Post Graduate Studies for Applied Science - Benha University (PGASC), (2022).
3. S. Y. El-mashad, A. M. Yassen, A. K. Alsammak and B. M. Elhalawany, "Local features-based watermarking for image security in social media," Computers, Materials & Continua, vol. 69, no.3, pp. 3857–3870, 2021.
4. Mahmoud Mohammed Taha , Dr. Ahmed B. Zaky , Abdel Wahab Alsammak, "Filtering of Inappropriate Video Content A Survey", INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT), Volume 11, Issue 02 (February 2022).
5. Abdelwahab Alsammak, Khaled M. Fouad, and Shaima D. AlMarie, "Indoor Fire Detection System Based on Data Mining Techniques." Journal of Theoretical and Applied Information Technology, Vol. 98, No. 08, pp. 1121-1133, 2020.
6. Walaa E. Elhady, Abdulwahab K. Alsammak and Shady Y. El-Mashad, "Optimized Weighted Feature Voting Technique for CBIR", Journal of Electronic Imaging, 27(5), 053017 (26 September 2018).
7. Walaa E. Elhady, Abdulwahab K. Alsammak and Shady Y. El-Mashad , "Weighted feature voting technique for content-based image retrieval", Int. J. Computational Vision and Robotics, Vol. 8, No. 3, 2018.
8. Walaa E. Elhady, Abdulwahab K. Alsammak and Shady Y. El-Mashad, CBIR based on Weighted Multi-feature Voting Technique, International Journal of Imaging and Robotics, Vol. 18, No. 2, 38-52, 2018.
9. Mahmoud Nawar, Ahmed Fares, Abdulwahab AlSammak, "Towards MA-RSQ: a scalable multi-agent framework for adaptive traffic signal control based on relative sparse cooperative Q-learning", IET Intelligent Transport Systems, 2018.
10. R. Ziedan, M. Micheal, A. Alsammak, M. Mursi, and A. Elmaghraby, "SARA: Spoken Arabic Regional Archive," the Engineering Research Journal (ERJ) -Faculty of Engineering (Shoubra), 2018.

11. Abdelwahab AlSammak , Tarek Elshishtawy , Alaa Abd Elrahman , and Aboubakr Elewa, "An Anonymous End-to-End Auditable Electronic Voting Scheme Based on Scratch-Cards", the Engineering Research Journal (ERJ) - Faculty of Engineering (Shoubra), 2018.
12. Abdelwahab Al-Sammak, May Salama, and Sarah Moustafa kamel, "Robust Wrist Veins ROI Localization Algorithm Based on an Improved Joint-Entropy Thresholding Method", the Engineering Research Journal (ERJ), Faculty of Engineering (Shoubra), 2018.
13. Abdelhamid Awad Attaby, Mona FM Mursi Ahmed, Abdelwahab K Alsammak , "Data hiding inside JPEG images with high resistance to steganalysis using a novel technique: DCT-M3", Ain Shams Engineering Journal, 2017.
14. Ahmed M Bakr, Mostafa M Fouda, May Salama, Abdelwahab K Alsammak, Hossam Yahia, "Modeling real-time safety critical systems using hierarchical communicating real-time state machines and c-lang parser, Eighth International Conference on Intelligent Computing and Information Systems (ICICIS), 2017.
15. Ahmed M Bakr, Mostafa M Fouda, May Salama, Abdelwahab K Alsammak, Hossam Yahia, "Hazard analysis of real-time safety critical systems using hierarchical communicating real-time state machines formal model, 12th International Conference on Computer Engineering and Systems (ICCES), 2017.
16. Shaimaa Yosry, May Salama, and Abdelwahab Al-Sammak, "A hierarchical Task allocation model in cloud computing environment using Multi-Objective Particle Swarm Optimization", the Engineering Research Journal (ERJ), Faculty of Engineering (Shoubra), 2017.
17. R. Ziedan, M. Micheal, A. Alsammak, M. Mursi, and A. Elmaghraby, "A Unified Approach for Arabic Language Dialect Detection," presented at the 29th International Conference on Computers Applications in Industry and Engineering (CAINE 2016), Denver, USA, 2016.
18. R. Ziedan, M. Micheal, A. Alsammak, M. Mursi, and A. Elmaghraby, "Improved Dialect Recognition for Colloquial Arabic Speakers," presented at the 16th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2016), 2016.
19. Shaimaa Ismail, Abdelwahab Alsammak, and Tarek Elshishtawy, "A generic approach for extracting aspects and opinions of Arabic reviews", INFOS '16 proceedings of the 10th international conference on Informatics and Systems, pages 173-179, Egypt 2016, ACM, ISBN: 978-1-4503-4062-5.
20. Moufeda hussien, Abdelwahab Alsammak, and Tarek Elshishtawy, "Keyphrase-Based Hierarchical Clustering for Arabic Documents", INFOS '16 proceedings of the 10th international conference on Informatics and Systems, pages 61-67, Egypt 2016, ACM, ISBN: 978-1-4503-4062-5.
21. Shaimaa M. Abd El-salam, Enas M.F. El Houby, A.K. Al sammak, and T.A. El-shishtawy, " EXTRACTING ARABIC RELATIONS FROM THE WEB", International Journal of Computer Science & Information Technology (IJCSIT) Vol 8, No 1, February 2016.

22. Abdelwahab AlSammak, Alaa AbdElRahman, Tarek ElShishtawy, and AbouBakr Elewa, " Challenges of Electronic Voting - A Survey", ACSIJ Advances in Computer Science: an International Journal, Vol. 4, Issue 6, No.18, November 2015, ISSN : 2322-5157.
23. Zaki B. Nossair, Abdulwahab Alsammak, Adly S.Tag Eldien, Shimaa S. Ali, ", Networked Robots Path Planning Using Simultaneous Localization and Mapping Algorithm", International Journal of Engineering Research and Development, Volume 8, Issue 2 (August 2013), PP.82-92.
24. Abdulwahab K. Alsammak, AlaaEldeenSayed Ahmed, EssamAlgizawy, "A New Approach to Manage and Utilize Cloud Computing Underused Resources", International Journal of Computer Applications (0975 – 8887) Volume 76 – No.11, August 2013.
25. Abdulwahab K. Alsammak, AlaaEldeenSayed Ahmed, EssamAlgizawy, "A Generic resources allocation approach for better Cloud Computing IaaS Services", the 2012 World Congress in Computer Science, Computer Engineering & Applied Computing, Las Vegas, Nevada, USA, July 2012.
26. El-shishtawy T. & Al-sammak A., "Arabic Keyphrase Extraction using Linguistic Knowledge and Machine Learning Techniques", 2nd International Conference on Arabic Language Resources and Tools, Cairo (Egypt), April 2009.
27. T. El-Shishtawy, A. El-Sammak, "The Best Match Technique for Example-Based Machine Translation" 11th International Conference on Artificial Intelligence Applications, Cairo, Egypt, Jan. 2003.
28. A. El-Sammak "Design and Implementation of Arabic Corpus", Scientific Bulletin, Fac. Of Eng. , Ain-Shams Univ. , Vol. 33, No. 2, 1998.
29. A. El-Sammak, T. El-Shishtawy, R. A. El-Kammar, M. M. Selim, "Recommendation Heuristic: A Technique for Recognizing Arabic Speech Digits", Scientific Bulletin, Fac. Of Eng. , Ain-Shams Univ. , Vol. 30, part 2, No. 1, 1995.
30. T. El-Shishtawy, A. El-Sammak, M. M. Selim, "A Real-Time System for Diagnosing Digital Circuits: A Meta Program Approach", 3rd International Conference on Artificial Intelligence Applications, Cairo, Egypt, Jan. 1995.
31. R. El-Kammar, A. El-Sammak, A. F. El-Shikh, M. M. Selim, "An Interactive Intelligent Knowledge Based System for Fault Diagnosis with Interpretation and Updating Facilities", Scientific Bulletin, Fac. Of Eng. , Ain-Shams Univ. , Vol. 29, part 3, 1994.
32. El-Mahdi, R. A. El-Kammar, T. El-Shishtawy, A. El-Sammak, "Pronouns: A novel Semantic Representation", Scientific Bulletin, Fac. Of Eng. , Ain-Shams Univ. , Vol. 29, part 2, 1994.
33. T. El-Shishtawy, A. El-Dessoki, R. El-Kammar, A. El-Sammak, "A Path Planning Algorithm for Multiple Robots Among Stationary Obstacles", the Egyptian Computer Journal, ISSR, Cairo Univ., Vol. 22, No. 1, 1994.
34. M. M. Selim, T. El-Shishtawy, A. El-Sammak, "A Rule Based Classifier for Handwritten Hindu Numerals", the Annual Conference ISSR, Cairo Univ., Vol. 29, Part 4, 1994.

35.T. El-Shishtawy, A. El-Sammak, “English to Arabic Machine Translation System”, 2nd International Conference on Artificial Intelligence Applications, Cairo, Egypt, Jan. 1994.