

# Curriculum Vitae

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**Mobile:** 002-01091666404 (Egypt)

**Nationality:** *Egyptian*

## **Educations:**

*PhD Degree in Computer Science, Faculty of Science, Beni-Suef University, 2007.*

*Pre-doctoral courses, Department of Computer Science and Information Engineering, College of Electrical Engineering and Computer Science, National Central University, Taiwan, 2006.*

*M. Sc. Degree in Computer Science, Department of Computer Science, Faculty of Science, Minia University, Egypt, 2002.*

*B. Sc. Degree, Department of Mathematics, Faculty of Science (Beni-Suef), Cairo University 1994, Egypt. Grade: "Very Good with Honor".*

## **Positions:**

*Dean: (Sep. 2021 – Now) Faculty of Computer and Artificial Intelligence, Beni-Suef University, **Egypt**.*

*Dean: (Sep. 2020 – Aug 2021) Egyptian Korean Faculty of Industry and Energy Technology, Bani-Swief Technological University, Beni-Suef University, **Egypt**.*

*Head of Computer Science Department: (Feb. 2019 – Aug 2021), Faculty of Computer and Artificial Intelligence, Beni-Suef University, **Egypt**.*

*Vice Dean of Student Affairs: (Jan. 2018 – Jul2018), Faculty of Computer and Information, Beni-Suef University, **Egypt**.*

*Vice Dean of community service and environment affairs: (Oct. 2017 – Jan 2018), Faculty of Computer and Information, Beni-Suef University, **Egypt**.*

Vice Dean of community service and environment affairs: (*Oct. 31 2016 – Oct. 2017*), *Faculty of Special needs sciences, Beni-Suef University, **Egypt***.

Associate Professor: (*Sep. 2017 – now*), *CS Department, Faculty of Computer and Information, Beni-Suef University, **Egypt***.

Associate Professor:(*Jan. 2014 – Sep. 2017*), *Math && Computer Science department, Faculty of Science, Beni-Suef University, **Egypt***.

Assistant Professor:(*Sep. 2008 – July 2016*), *IT Department, College of Applied Sciences, Ibri, **Sultanate of Oman***.

Assistant Professor:(*Sep. 2007 – Aug. 2008*), *Faculty of Science, Beni-Suef University, **Egypt***.

Teaching Assistant:(*Sep. 2006 – Sep. 2007*), *Department of Computer Science and Information Engineering, College of Electrical Engineering and Computer Science, National Central University, **Taiwan, ROC***.

Teaching Assistant:(*July 2002 – August 2006*), *Faculty of Science, Beni-Suef University, **Egypt***.

Demonstrator: (*March 1996 – June 2002*), *Faculty of Science (Beni-suef), Cairo University, **Egypt***.

### **Courses Co-ordination and Teaching Experiences:**

- *IT Fundamentals*
- *Computer Organization*
- *Structured Programming (C)*
- *Object Oriented Programming (C++ and Java)*
- *Application Software Development (Java)*
- *Data Structures (C/Java)*
- *Innovation in Software Development*
- *Discrete Structure*
- *Databases*
- *Web Development*
- *An Introduction to Graph Theory*
- *Data Mining*
- *Machine Learning*
- *Artificial Intelligence*
- *Research Methods and Tools*
- *Natural Language Processing*

## Awards:

### **Best Research led by Young Researchers:**

*The National Research Award 2015, the best research led by young researchers in Information and Communication Technology sector, The Research Council, Sultanate of Oman.*

### **First Place Graduation Project, 2015/2016:**

*The first place of the graduation project “The Sniper: An Intelligent Wadi Prediction System”, colleges of Applied Sciences, Ministry of Higher Education, Sultanate of Oman.*

## Quality Assurance Participation:

- **ABEEK: The Korean Engineering Accreditation.** Start the process which is terminated successfully with a grant from Aug. 2022 to July 2028 to the Egyptian Korean Faculty of Industry and Energy Technology, Bani-Swief Technological University, Beni-Suef University, *Egypt*. Below is the applied schedule.

Schedule(Tentative)	Process	In charge of
Jan. ~ Feb. 2021	Request for local consulting from BST to ABEEK <sup>1)</sup>	BST
Mar. ~ Apr. 2021	Submit basic data for the consulting <sup>2)</sup>	BST & PMC
Jul. ~ Aug. 2021	Conduct the local consulting in BST	ABEEK
October 2021	Submit self-evaluation report <sup>2)</sup>	BST & PMC
Jan. ~ Feb. 2022	Conduct the local evaluation	ABEEK
Mar. ~ May. 2022	Hold the council	ABEEK
Jul. ~ Aug. 2022	Evaluate and publish the result of Engineering Accreditation	ABEEK

- **A consultant of the accreditation process which is started this academic year 2022/2023 for the computer science program, Nahda University, Beni Suef, Egypt.**
- **Courses Specifications and Coordination: Sep. 2008 – July 2016, at IT Department, College of Applied Sciences, Ibri, Sultanate of Oman.**

## Research Activities

### Fellowships:

- *A PhD fellowship from Department of Computer Science and Information Engineering, College of Electrical Engineering and Computer Science, National Central University, Taiwan, ROC.*
- *ERASMUS+, KA-107: Universidade de Vigo – Egypt (Project Number: 2017-1-ES01-KA107-037557)*  
*Web site:*  
<http://doc.tic.uvigo.es/ka107-universidadevigo%E2%80%93egypt>
- *ERASMUS+, KA-107: Universidade de Vigo – Egypt, 2019 (Project Number: 2019-1-ES01-KA107-063126)*  
<http://doctic.uvigo.es/ka107-uvigo-egypt-2019>

### Journals/Conferences Reviewer

- *IEEE TKDE Journal.*
- *ACM Transactions on the Web Journal.*
- *Journal Of Web Engineering*
- *IEEE Access*
- *Journal of King Saud University - Computer and Information Sciences.*
- *Egyptian Informatics Journal – Faculty of Computers and Information, Cairo University, Egypt*
- *International Journal of Computational Linguistics and Chinese Language Processing, IJCLALP.*
- *International Journal of Information Processing and Management, IJIPM.*
- *The Special Issue on Arabic Natural Language Processing (ANLP) - ACM Transactions on Asian Language Information Processing (TALIP), <http://talip.acm.org>*

- *The 6<sup>th</sup>International Conference on Informatics and Systems, 27–29 March, 2008, Cairo, EGYPT, Special Track On Natural Language Processing.*
- *Enhanced Technologies and Recent Trends in ICT (ETRT-ICT) Symposium, Salalah, Sultanate of Oman, 2016*

### **International Committee Member**

- *Editorial board member of Journal of Artificial Intelligence Advances (ISSN: 2661-3220).*
- *Track Chair, Intelligent Language Processing Trends and Applications, AISI2016.*  
(<http://egyptscience.net/AISI2016/ILP.html>).
- *Editorial board member of the International Journal of Computational Linguistics and Arabic Language Processing (IJCLALP).*
- *A member of the International Conference on Convergence and hybrid Information Technology (ICCIT) series,*  
<http://www.aicit.org/>
- *A member of International Journal of Digital Content Technology and its Applications (JDCTA).*
- *The 6<sup>th</sup>International Conference on Informatics and Systems, 27–29 March, 2008, Cairo, EGYPT, Special Track On Natural Language Processing.*
- *A member of the Web Intelligence and Data Mining Group, NCU Taiwan, <http://sites.google.com/site/nculab/>*

### **Conference and Workshop Participation:**

- *M. Kayed, A. Anter, Hadeer Mohamed, Classification of Garments from Fashion MNIST Dataset Using CNN LeNet-5 Architecture, International Conference on Innovative Trends in Communication and Computer Engineering (ITCE), Aswan, Egypt, 2020.*
- *Samar M. Abdelmoneim, M. Kayed, and Shereen A. Taie, Comparative study for Feature Extraction and Classification of images, ACCS'019 & PEIT'019 Conferences, Hurghada, EGYPT, 17-20 November 2019.*
- *M. Kayed, Ahmed Anter and Ahmed Hassan, Extending Lifetime of Wireless Sensor Networks by Distributing the Overload on Cluster Heads, International Conference on Industrial Technology, Sep., 2019.*
- *M. Kayed and Amr Kamal, Flood Prediction Using Decision Tree Learning and Regression Analysis. Enhanced Technologies and Recent Trends in ICT (ETRT-ICT) Symposium, Salalah, Sultanate of Oman, 2016.*
- *16<sup>th</sup> Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2012), Kuala Lumpur, Malaysia, May 2012.*
- *The 6<sup>th</sup> International Conference on Informatics and Systems, Special Track On Natural Language Processing, INFOS 2008.*
- *The 2<sup>nd</sup> International Conference on Intelligent Computing and Information Systems (ICICIS), Cairo, June 2005.*
- *The 3<sup>rd</sup> International Conference on Informatics and Systems, INFOS2005, Cairo, March 2005.*
- *Workshop on Modern Methods of Systems Analysis and Design. Alexandria University, Institute of Graduate Studies & Research, July 2002.*
- *The 1<sup>st</sup> International Conference on Intelligent Computing and Information Systems (ICICIS), Cairo, June 2002.*
- *The 9<sup>th</sup> International Conference on Artificial Intelligence Applications, Cairo, February 2001.*
  
- *A session chair, 9<sup>th</sup> International Japan-Africa Conference on Electronics, Communications, and Computations (JAC-ECC), 2021.*
- *A session chair, Enhanced Technologies and Recent Trends in ICT (ETRT-ICT) Symposium, Salalah, Sultanate of Oman, 2016*
- *A chair for the session 5A (Preprocessing/Visualization), 16<sup>th</sup> Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2012), Kuala Lumpur, Malaysia, May 2012.*

- *A session chair in the 6<sup>th</sup>International Conference on Informatics and Systems, Special Track On Natural Language Processing, INFOS 2008.*

**Research Background:**

*Good background and experience in Pure Mathematics and Statistics: **throughout my studying for B. Sc.***

*Good background and experience in the field of information retrieval: **throughout my studying for M. Sc.***

*Good background and experience in the field of Web mining: **throughout my studying for PhD.***

**Area of Interest:** *Information Retrieval, Information Extraction, Web Information Integration, Web content mining, Semantic Web, Opinion Mining, Social Network, Deep Learning applications, Natural Language Processing.*

## **Publications:**

1. A Mabrouk, A Dahou, MA Elaziz, RP Díaz Redondo, **M. Kayed**, Medical Image Classification Using Transfer Learning and Chaos Game Optimization on the Internet of Medical Things, Computational Intelligence and Neuroscience, 2022.
2. Alhassan Mabrouk, Rebeca P Díaz Redondo, Abdelghani Dahou, Mohamed Abd Elaziz, **M. Kayed**, Pneumonia Detection on Chest X-ray Images Using Ensemble of Deep Convolutional Neural Networks, Applied Sciences Journal, Vol 12, 2022.
3. Fatema Azzam, **M. Kayed**, AA Ali, “A Model For Generating a User Dynamic Profile on Social Media”, Journal of King Saud University-Computer and Information Sciences, 2022.
4. Ahmed Hassan, Mohamed Elhoseny, **M. Kayed**, “A novel and accurate deep learning based Covid-19 diagnostic model for heart patients only”, Under review.
5. Hadeer Adel, Abdelghani Dahou, Alhassan Mabrouk, Mohamed Abd Elaziz, **M. Kayed**, Ibrahim Mahmoud El-Henawy, Samah Alshathri, Abdelmgeid Amin Ali, “Improving crisis events detection using distilbert with hunger games search algorithm”, Mathematics 10 (3), 2022.
6. A. Sultan, W. Makram, **M. Kayed**, A. A. Ali Sign Language Identification and Recognition: A Comparative Study, Open Computer Science 12 (1), 191-210, 2022.
7. **M. Kayed**, Sara Dakrory, A. A. Ali, Postal Address Extraction from the Web: A Comprehensive Survey, Artificial Intelligence Review, 55, pages1085–1120, 2022.
8. Sara Dakrory, Bahgat Abdelhamid Abdelatif, **M. Kayed**, AA Ali, “Extracting Geographic Addresses from Social Media using Deep Recurrent Neural Networks”, 9<sup>th</sup> International Japan-Africa Conference on Electronics, Communications, and Computations (JAC-ECC), 2021.
9. Hadeer.M. Abd Alaziz, AhmedAnter, Abd elrahim Koura, **M. Kayed**, “Classification of fashion images using convolutional neural networks and Transfer Learning”, Vol. 166, Issue. 4 of SYLWAN journal (ISSN: 0039-7660), 2021.
10. A. Mabrouk, R. Díaz Redondob, **M. Kayed**, SEOpinion: Summarization and Exploration Opinion of E-Commerce Websites, accepted for publication in Sensors journal, Jan 2021.

11. Ahmed Hassan, Ahmed Anter and **M. Kayed**, A Survey on Extending the Lifetime for Wireless Sensor Networks in Real-Time Applications, International Journal of Wireless Information Networks, 1-27, Jan 2021.
12. Ahmed Hassan, Ahmed Anter and **M. Kayed**, A Robust Clustering Approach for Extending the Lifetime of Wireless Sensor Networks in an Optimized Manner with a Novel Fitness Function, Sustainable Computing: Informatics and Systems, 30, 100482, June 2021.
13. Samar M. Abdelmoneim, Shereen A. Taie, **M. Kayed**, "Human Action Classification in Still Images via Human Skin Mask and Residual Neural Network", in Int. Journal of Advanced Trends in Computer Science and Engineering, vol. 9, no. 4, 2020, pp. 4604-4613, doi:10.30534/ijatcse/2020/60942020.
14. **M. Kayed** and Khaled Shalaan, Deep Web Data Extraction: A Generic Approach, Journal of Web Engineering, 19 (3-4), pp. 371-403, 2020.
15. A. Mabrouk, R. Díaz Redondob, **M. Kayed**, A Literature-Based Comparison of Deep Learning Models for Sentiment Classification, IEEE-Access, 8, 85616-85638, 2020.
16. AA Elngar, **M Kayed**, Vehicle Security Systems using Face Recognition based on Internet of Things, Open Computer Science 10 (1), 17-29, 2020.
17. **M Kayed**, AA Elngar, NestMSA: a new multiple sequence alignment algorithm, Journal of Supercomputing, 1-21, Feb. 2020.
18. **M. Kayed**, A. Anter, Hadeer Mohamed, Classification of Garments from Fashion MNIST Dataset Using CNN LeNet-5 Architecture, International Conference on Innovative Trends in Communication and Computer Engineering (ITCE), Aswan, Egypt, 2020.
19. Samar M. Abdelmoneim, **M. Kayed**, and Shereen A. Taie, Comparative study for Feature Extraction and Classification of images, ACCS'019 & PEIT'019 Conferences, Hurghada, EGYPT, 17-20 November 2019.
20. **M. Kayed**, Ahmed Anter and Ahmed Hassan, Extending Lifetime of Wireless Sensor Networks by Distributing the Overload on Cluster Heads, International Conference on Industrial Technology, Sep., 2019.
21. **M. Kayed** and Amr Kamal, Flood Prediction Using Decision Tree Learning and Regression Analysis. Enhanced Technologies and

- Recent Trends in ICT (ETRT-ICT) Symposium, Salalah, Sultanate of Oman, 2016.
22. A. Makrashy, A. Sayed, **M. Kayed**, CASEng: Arabic Semantic Search Engine. *Journal of Theoretical & Applied Information Technology* 75 (2) , 2015.
  23. **M. Kayed**, A. Sayed, M. Hashem, A Classifier for Schema Types Generated by Web Data Extraction Systems, *International Journal of Computer Applications* 107 (1), 2014.
  24. C.-H. Chang, Y.-L. Lin, K.-C. Lin, **M. Kayed**, Page-Level Wrapper Verification for Unsupervised Web Data Extraction. 14<sup>th</sup> International Conference of Web Information Systems Engineering (WISE), Nanjing, China, 2013.
  25. Awny Sayed, **Mohammed Kayed** and Mayyada Hammoshi, Efficient evaluation of reachability query for directed acyclic XML graph based on a prime number labelling schema. *Egyptian Informatics Journal*, 13(3), November 2012.
  26. C.-H. Chang, C.-H. Chang, and **M. Kayed**, FiVaTech2: A Supervised Approach to Role Differentiation for Web Data Extraction From Template pages. The 26<sup>th</sup> Annual Conference of Japanese Society for Artificial Intelligence (JSAI2012), Yamaguchi city, Japan, June 12-15, 2012.
  27. **M. Kayed**, Peer Matrix Alignment: A New Algorithm. Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), Kuala Lumpur, Malaysia, 2012.
  28. **M. Kayed**, M. Hashem, "Filtering Web Site Schema Generated by Web Data Extraction Systems", *IJIPM: International Journal of Information Processing and Management*, Vol. 3, No. 2, pp. 53 ~ 64, 2012.
  29. **M. Kayed** and Chia-Hui Chang: FiVaTech: Page-Level Web Data Extraction from Template Pages. *IEEE Trans. Knowl. Data Eng.* 22(2): 249-263 (2010).
  30. C.-H. Chang, S.-F. Yang, C.-M. Liou, **M. Kayed**, *Gadget Creation for Personal Information Integration on Web Portals*, IEEE International Conference on Information Reuse and Integration, Las Vegas, USA, 2008.
  31. **M. Kayed**, C.-H. Chang, K. Shaalan, and M. R. Girgis, *FiVaTech: Page-Level Web Data Extraction from Template Pages*, IEEE ICDM 2007, Workshop on Web2.0 Environment, Omaha, NE, Oct. 28-31, 2007.

- 32.C.-H. Chang, **M. Kayed**, M. R. Girgis, K. Shaalan, *A Survey of Web Information Extraction Systems*, IEEE TKDE (SCI, EI), Vol. 18, No. 10, pp. 1411-1428, Oct. 2006.
- 33.C.-Hui Chang, **M. Kayed**, M. R. Girgis, K. Shaalan, *Criteria for Evaluating Information Extraction Systems*, Proceedings of the 3<sup>rd</sup>International Conference on Informatics and Systems, INFOS2005,Cairo, March 2005.
- 34.M. Girgis, A. Aly and **M. Kayed**, *Automatic Information Retrieval of Short Documents*, International Journal of Information Theories and Applications, Bulgaria, vol. 9, pp. 3-22, 2002.
- 35.M. Girgis, A. Aly and **M. Kayed**, *A Feature Selection and Classification Technique for Text Categorization*, Proceedings of the 9<sup>th</sup>International Conference on Artificial Intelligence Applications. Cairo, February 2001.