

MAHA ATTIA MAHMOUD HANA

مها عطية محمود هنا

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Hadayek El Maadi, Box 11431,
Cairo, Egypt.

FIRST: EDUCATION

Ph.D.

University : School of Engineering at North Carolina State University
"NCSU", North Carolina
Graduation year : 1996
Major Specialty : Biological and Agricultural Engineering
Minor Specialty : Artificial Intelligence
Thesis : Qualitative and Quantitative Near Infrared Analysis using
Artificial Neural Network

M.Sc.

University : Faculty of Engineering at Cairo University, Giza, Egypt
Graduation year : 1989
Major : Systems and Biomedical Engineering
Thesis : Optical Arabic Text Recognizer

B.Sc.

University : Faculty of Engineering at Cairo University, Giza, Egypt
Graduation year : 1984
Major : Systems and Biomedical Engineering
Project : Word Recognition System

SECOND: EXPERIENCE

Management and Administrative Work

- ◆ **Dean of Faculty for Computer Studies, Arab Open University – Egypt Branch,**
since February 2024 -February 2025.
- ◆ **Dean of Canadian International Institute of Computer Science** since September 2020
to August 2021.
- ◆ **Professor and Vice Dean of Canadian International Institute of Computer Science,**
September 2019 to August 2020.
- ◆ **Vice Dean of Canadian International Institute of Engineering,** January 2013 to
August 2019.
- ◆ **Vice Dean for Community Service and Environment Development,** Faculty of
Computers and Information, Helwan University since January 2010 – August 2012.

- ♦ **Helwan University Manager of ICTP Project**, July/2009 - June/2012.
- ♦ **Manager of ICDL Computer Scientific Center**, Helwan University, 2002-2003.
- ♦ **Co-Manager of ICDL Computer Scientific Center**, Helwan University, 2001-2002.

Professional Work

- ♦ **Professor in Faculty of Computer Studies, Arab Open University – Egypt Branch**, since February 2025 till now.
- ♦ **Dean of Faculty for Computer Studies, Arab Open University – Egypt Branch**, since February 2024 -February 2025.
- ♦ **Professor in Computer and Software Engineering department**, Misr University for Science and Technology, since October 2022 to January 2024.
- ♦ **Professor in Mechatronics department**, Misr University for Science and Technology, September 2021 to October 2022 .
- ♦ **Dean of Canadian International Institute of Computer Science** since September 2020 to August 2021.
- ♦ **Professor and Vice Dean of Canadian International Institute of Computer Science**, September 2019 to August 2020.
- ♦ **Professor in Electrical and Communication Department**, Canadian International Institute of Engineering, since June 2017 to August 2019.
- ♦ **Vice Dean of Canadian International Institute of Engineering**, January 2013 to August 2019.
- ♦ **Professor in Information System department**, Faculty of Computers and Information, Helwan University, June 2017.
- ♦ **Assistant Professor in Electrical and Communication Department**, Canadian International Institute of Engineering, January 2013 to May 2017.
- ♦ **Assistant Professor in Business Information Technology Department**, Canadian International Institute of Engineering and Business, New Cairo campus, September 2013 to January 2013.
- ♦ **Vice Dean for Community Service and Environment Development**, Faculty of Computers and Information, Helwan University since January 2010 – August 2012.
- ♦ **Associate Professor in Information System department**, Faculty of Computers and Information, Helwan University, October 2008.

- ♦ **Lecturer in Information System department**, Faculty of Computers and Information, Helwan University, January 2001.

Projects Activities

- ♦ **Executive Manager for Project "Continuous Improvement and Qualification for Accreditation in HEI "CIQAP"**, Faculty of Computers and Information, Helwan University since November 2011-April 2012.
- ♦ **Helwan University Manager of ICTP Project**, July/2011 – June/2012
"المرحلة الرابعة لمشروع إستكمال الفهرس الموحد للمكتبات الجامعية المصرية، مشروع تطوير نظم و تكنولوجيا المعلومات فى التعليم العالى، وحدة إدارة مشروعات تطوير التعليم العالى (PMU)، وزارة التعليم العالى، جمهورية مصر العربية."
- ♦ **Helwan University Manager of ICTP Project**, July/2011 – June/2012
"المرحلة الثالثة لمشروع إستكمال إنشاء المستودع الرقوى الوطنى للرسائل و البحوث الجامعية، مشروع تطوير نظم و تكنولوجيا المعلومات فى التعليم العالى، وحدة إدارة مشروعات تطوير التعليم العالى (PMU)، وزارة التعليم العالى، جمهورية مصر العربية."
- ♦ **Helwan University Manager of ICTP Project**, July/2010 – June/2011
"المرحلة الثالثة لمشروع إستكمال الفهرس الموحد للمكتبات الجامعية المصرية، مشروع تطوير نظم و تكنولوجيا المعلومات فى التعليم العالى، وحدة إدارة مشروعات تطوير التعليم العالى (PMU)، وزارة التعليم العالى، جمهورية مصر العربية."
- ♦ **Helwan University Manager of ICTP Project**, July/2010 – June/2011
"المرحلة الثانية لمشروع إستكمال إنشاء المستودع الرقوى الوطنى للرسائل و البحوث الجامعية، مشروع تطوير نظم و تكنولوجيا المعلومات فى التعليم العالى، وحدة إدارة مشروعات تطوير التعليم العالى (PMU)، وزارة التعليم العالى، جمهورية مصر العربية."
- ♦ **Helwan University Manager of ICTP Project**, July/2009 - June/2010
"المرحلة الثانية لمشروع إستكمال الفهرس الموحد للمكتبات الجامعية المصرية، مشروع تطوير نظم و تكنولوجيا المعلومات فى التعليم العالى، وحدة إدارة مشروعات تطوير التعليم العالى (PMU)، وزارة التعليم العالى، جمهورية مصر العربية."
- ♦ **Helwan University Manager of ICTP Project**, July/2009 – June/2010
"مشروع إنشاء المستودع الرقوى للرسائل و البحوث الجامعية، مشروع تطوير نظم و تكنولوجيا المعلومات فى التعليم العالى، وحدة إدارة مشروعات تطوير التعليم العالى (PMU)، وزارة التعليم العالى، جمهورية مصر العربية."
- ♦ **Member in Project of Continuous Improvement and Qualification for Accreditation in HEI "CIQAP"**, Faculty of Computers and Information, Helwan University since November 2012-April 2012.
- ♦ **Member in the management team in "Development of Libraries & Information Systems at Helwan University Project"** granted by Higher Education Enhancement Project Funds "Heepf" Grant A109-K0-2004.

IT Professional Activities

- ◆ Member in Helwan University Library committee since 2009 - 2012.
- ◆ Member in Helwan University IT committee since November 2008-December 2009.
- ◆ Manager of ICDL Computer Scientific Center, Helwan University, 2002-2003.
- ◆ Trainer in Education Enhancement Program Middle Management Training, the Educational Leadership Consortium from April 2003 until August 2004.
- ◆ Co-Manager of ICDL Computer Scientific Center, Helwan University, 2001-2002.
- ◆ Member in the Initiation and construction of Helwan University Networks Committee for both in-campus and off campus network, 2001-2002.

Professional Courses & Workshops

"التقويم الذاتي لكليات ومعاهد التعليم العالي - الهيئة ٧-٩/١٢/٢٠٢٣، الهيئة القومية لضمان جودة التعليم والإعتماد"
"توصيف البرامج والجدرات للقطاع الهندسي - ٥-٦/٧/٢٠٢٣، الهيئة القومية لضمان جودة التعليم والإعتماد"
"التخطيط الاستراتيجي لمؤسسات التعليم العالي، ١٠-١١/٧/٢٠١٧، الهيئة القومية لضمان جودة التعليم والإعتماد"
"Research Methodology, 14/7/2016 to 15/7/2016, Canadian International college".
"الساعات المعتمدة، ١٢-١٤/٢/٢٠١٢، وحدة التدريب، مركز تنمية قدرات أعضاء هيئة التدريس والقيادات، جامعة حلوان."
"الإدارة الجامعية، ٢٢-٢٤/٣/٢٠١٢، وحدة التدريب، مركز تنمية قدرات أعضاء هيئة التدريس والقيادات، جامعة حلوان."
"مشروعات البحوث التنافسية المحلية والعالمية، ٣-٥/٧/٢٠١٢، وحدة التدريب، مركز تنمية قدرات أعضاء هيئة التدريس والقيادات، جامعة حلوان."
"التخطيط الإستراتيجي، ١٧-١٩/٧/٢٠١٢، وحدة التدريب، مركز تنمية قدرات أعضاء هيئة التدريس والقيادات، جامعة حلوان."
"إدارة الفريق البحثي، ٢٤-٢٦/٧/٢٠١٢، وحدة التدريب، مركز تنمية قدرات أعضاء هيئة التدريس والقيادات، جامعة حلوان."
"النشر العلمي، ١١-١٣/٨/٢٠١٢، وحدة التدريب، مركز تنمية قدرات أعضاء هيئة التدريس والقيادات، جامعة حلوان."
"إعداد مستندات الجودة، ١/٣/٢٠١١، وحدة التدريب، مركز ضمان الجودة، جامعة حلوان."
"نظم تقويم الطلاب، ٢٨/١٢/٢٠١٠، وحدة التدريب، مركز ضمان الجودة، جامعة حلوان."
"التقييم الذاتي، ٢٠/١٢/٢٠٠٩ - ٤/١/٢٠١٠، الهيئة القومية لضمان جودة التعليم والإعتماد."
"تقويم نواتج التعلم لمؤسسات التعليم العالي"، ١٢-١٣/٨/٢٠٠٩، الهيئة القومية لضمان جودة التعليم والإعتماد."
"حزم مراجعون خارجيون + نماذج محاكاة"، ١٤-١٤/٦/٢٠٠٩، الهيئة القومية لضمان جودة التعليم والإعتماد."
"آلية التقدم لمشروع التطوير المستمر والتأهيل للإعتماد، ٧-١٤/٥/٢٠٠٩، مركز ضمان الجودة، جامعة حلوان"
"تقارير نظم الجودة، ٥-٦/٤/٢٠٠٩، مركز ضمان الجودة، جامعة حلوان"
Master Degree Program in Medical Informatics "CD_JEP-31053-2003" Workshop, Foundation for Research and Technology – Hellas (FORTH), 17 – 24 August, 2008, Greece.
Master Degree Program in Medical Informatics "CD_JEP-31053-2003" Training visit,

Foundation for Research and Technology – Hellas (FORTH), 3 – 9 September, 2006, Greece.
"مشروع تنمية قدرات أعضاء هيئة التدريس و القيادات بجامعة حلوان"

THIRD: TEACHING ACTIVITY

Teaching Undergraduate Courses

- ◆ Machine Learning with Python, Database Management Systems, C++ Programming, Computer Skills, Communication and Presentation Skills, Introduction to Operating Systems, Internet Fundamentals, Internet Application, E_Business Strategies and Applications, Object Oriented Database, Information Retrieval and Search Engine, E_Commerce Technologies, Software Engineering I, Introduction to Information Systems, Application of Information systems and Programming Language2 Java.

Teaching Postgraduate Courses

- ◆ E-Commerce, Information System I: “Pervasive Computing”, Information System II: “Digital Library, Data Security, Information Retrieval Systems, Building Web Applications and Multimedia.

FOURTH: RESEARCH ACTIVITIES

Professional Conferences

- ◆ Reviewer in technical program committee for ICACCI-2015 (Fourth International Conference on Advances in Computing, Communications and Informatics, Kerala, India during August 10-13, 2014.
- ◆ Reviewer in technical program committee for ICACCI-2014. (Third International Conference on Advances in Computing, Communications and Informatics, Greater Noida, India during September 24-27, 2014.
- ◆ Reviewer in technical program committee for ICACCI-2013. (Second International Conference on Advances in Computing, Communications and Informatics, Mysore, India during August 22-25, 2013.
- ◆ Co chair in Session V (Information Systems-2) in International Conference for Computing and Informatics, 2012, Dec.11-12, Cairo, Egypt.
- ◆ IEEE International Advance Computing Conference IACC-2009, March 6-7, Patiala, India.
- ◆ Microsoft Academic Days, Tunis 27-28, February, 2007.
- ◆ Microsoft Academic Days, Dubai 24-26, April, 2004.

- ◆ Co-Chair in Natural Language Processing & Grammars in 12th International Conference on Artificial Intelligence Applications, Cairo International Conference Center, Cairo, Egypt, Feb. 18-20, 2004.
- ◆ Microsoft Academic Days, Dubai 21-23, June, 2003.

Publications

1. Hana M., W. Fred McClure & Junichi Sugiyama," Quantitative NIR Neural Networks", Newsletter of the International Committee for Near Infrared Spectroscopy, 1991.
2. McClure, W. F., Maha Hana and Junichi Sugiyama, "Neural Networks in NIR Spectroscopy", Making Light Work; Advances in Near Infrared Spectroscopy. (I. Murray and I. Cowe, Eds.) VCHH, Cambridge, UK, pp.200-209, 1992.
3. Hana M., M. W. White , D. R. Bahler, W. F. McClure and T.B. Whitaker, "A New Training Approach for Artificial Neural Networks", accepted in Advances in Near Infrared Spectroscopy.
4. Hana M., "A Simple E-nose Classifier", 12th International Conference on Artificial Intelligence Applications, Cairo International Conference Center, Cairo, Egypt, Feb. 18-20, 2004.
5. Sarhan E., R.H. Abdel-Hamid, A.Ghalwas, M.Hana, A. Youssif, M. Qatr 2004. "Towards Development of A Digital Library at Helwn University", Fifteenth Conference Arabic Union for Libraries and Information, 2004.
6. Helmy Y., M. Hana amnd H. Fahmy, "Web Application Security Measure and Correctness", Fourth Annual Conference in System and Information Infos, 2006.
7. Sharaf Eldin A., M. Hana, A. Elgohary, "Mining Arabic Textual Datasets Using Association Rules Technique", Fourth Annual Conference in System and Information Infos, 2006.
8. Hana M., "Context Awareness Security Approach", Egyptian Informatics Journal, Vol. 7, No. 1, June 2006.
9. Hana M., "Resolving Cross-Language Problem in Arabic Proper Name Transliteration", International Journal of Intelligent Computing and Information Science, Vol. 6, No. 2, July 2006.
10. Hana M., " An Attempt for Clustering Arabic Text ", International Journal of Intelligent Computing and Information Science, Vol. 7, No.1, January 2007.
11. Sharaf Eldin A., Maha Attia Hana, Taysir Hassan Soliman, & Shaymaa Mohammed Rashad," A Comparative Study of Association Rules for Mining Gene Expression Databases: A Brief Survey", International Journal of Intelligent Computing and Information Science, Vol.7, No.1, January 2007.

12. Hana M., " HANA Algorithm: A Novel algorithm for Frequent Itemsets Generation" International Journal of Intelligent Computing and Information Science, Vol. 7, No.2, July 2007.
13. Sharaf Eldin A., M. Hana, S. El-Said, "Agile Software Development Methodologies: Meta-language Fuzzy Comparison", International Journal of Intelligent Computing and Information Science, Vol. 8, No.1, January 2008.
14. El-Said S., M. Hana, A. Eldin," Agile Tailoring Tool (ATT): A Project Specific Agile Method", IEEE International Advance Computing Conference IACC-2009, March 6-7, Patiala, India.
15. Helmy Y., M. Hana and S. Zaki, "A Roadmap Towards Context Aware Applications", International Journal of Intelligent Computing and Information Science, Vol. 9, No. 2, July, 2009.
16. Sharaf Eldin A., M. Hana, S. Kassim and S. Rashad, "Associations System for Breast Cancer Microarray Data", International Journal of Intelligent Computing and Information Science, Vol. 9, No. 2, July, 2009.
17. El Seddawy A., R. Moawad and M. Hana, "Applying Data Mining Techniques in CRM", Journal of Al Azhar University Engineering Sector, Vol. 5, No. 14, January 2010.
18. Zaki, S., M. Hana, Y. Helmy, "SCAMRA: Simulated Context-Aware Meeting Room Application", IEEE ISSPIT 2010, December 15-18, Luxor, Egypt.
19. Khedr A., M. Hana, D. Shollar, " Investigating Learners' Acceptance of e-Learning Courses Using Adopted Technology Acceptance Model", Proceedings of the 2011 International Conference on E-Learning, E-business, Enterprise Information Systems, & E-Government, 2011.
20. Fahmy H., M. Hana and Y. Helmy, "A Comparative Study on Temporal Mobile Access Pattern Mining Methods". International Journal of Advanced Computer Science and Applications Vol. 3, No. 3, March 2012, DOI: 10.14569/IJACSA.2012.030323.
21. Farag M., M. Hana and M. Nasr, "Selection of the K_Most Important Attributes", Egyptian Computer Science Journal, vol. 36, No. 3, September 2012.
22. Sultan T., M. Hana, M. El Dosoky and A. El Gohary. "Affective Computing: A Contemporary Survey of Models, Methods, and their Applications", International Conference for Computing and Informatics, 2012, Dec.11-12, Cairo, Egypt.
23. Fahmy H., M. Hana and Y. Helmy, "Pattern Recognition of Temporal sequential User Behavior on Mobile Services," International Conference for Computing and Informatics, 2012, Dec.11-12, Cairo, Egypt.
24. Farag M., M. Hana and M. Nasr, "A Simulated Decision Trees Algorithm (SDT)", International Conference for Computing and Informatics, 2012, Dec.11-12, Cairo, Egypt.

25. Hana M., "E-Government Cloud Computing Proposed Model: Egyptian E_Government Cloud Computing", ICACCI 2013 2nd International Conference on Advances in Computing, Communications and Informatics, 22-25 August 2013, Mysore, India.
26. Amira F. El Gohary, Torky I. Sultan, Maha A. Hana, Mohamed M. El Dosoky, " A Computational Approach for Analyzing and Detecting Emotions in Arabic Text", International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 www.ijera.com, Vol. 3, Issue 3, May-Jun 2013, pp.100-107.
27. Hana M., " MVEMFI: Visualizing and Extracting Maximal Frequent Itemsets," Accepted by International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 www.ijera.com, Vol. 3, Issue 5, Sep-Oct 2013, pp.183-189.
28. Hana M., Mohamed Marie, Rasha Mansour Mohamed, "EEE Model for Evaluation of ERP Efficiency in Real Time Systems," International Journal of Engineering Research and Applications (IJERA), ISSN: 2248-9622 www.ijera.com, Vol. 4, Issue 2(Version 1), February 2014, pp.474-480.
29. Mosaad Abdel Fattah S., Maha Attia Mahmoud and Laila Abd-Ellatif Abd-Elmegid, "An Adaptive Hybrid Controller for DBMS Performance Tuning," International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 5, No.5, 2014, pp.151-156.
30. Sharaf Eldin A., Maha Hana, Shady Mohammed Elsaid, "Detecting Aspect Intertype Declaration Interference at Aspect Oriented Design Models: A Database Approach," International Journal of Engineering Research and Applications (IJERA), ISSN: 2248-9622 www.ijera.com, Vol. 4, Issue 7(Version 3), July 2014, pp.164-171.
31. Sharaf Eldin A., Maha Hana, Shady Mohammed Elsaid, "Crosscutting Specification Interference Detection at Aspect Oriented UML-Based Models: A Database Approach," International Journal of Engineering Research and Applications (IJERA), ISSN: 2248-9622 www.ijera.com, Vol. 4, Issue 8(Version 7), August 2014, pp.140-150.
32. Darweesh A., Manal Louis Louka, Maha Hana, Shaymaa Rashad, Mohamed El-Shinawi, Ahmed Sharaf-Eldin & Samar Kamal Kassim, "Validation of analytical breast cancer microarray analysis in medical laboratory," Medical Oncology, Vol. 31, No.10, Sep.2014, pp.1-7.
33. S. Hassan, M. Hana and Y. Helmy, "A Cloud Application Based On Cloud Computing System," International Journal of Intelligent Computing and Information Science, Vol. 14, No. 4, October, 2014.
34. S. Hassan and M. Hana, "A Roadmap Towards Developing Cloud Computing Applications", International Journal of Intelligent Computing and Information Science, Vol. 14, No. 4, October, 2014.
35. Attia M., M. Nasr, A. Kassem, "E-Mail Systems In Cloud Computing Environment Privacy,Trust And Security Challenges", International Journal of Engineering Research and Application, Vol. 6, Issue 7, (Part -3) July 2016, pp.63-68, ISSN : 2248-9622.

36. Hana, M., "Handling of Missing Data", Egyptian Computer Science Journal, vol. 40(3), pp. 34 – 47, 2016.
37. Hana, M., "Data Mining of World Bank Indicators", 6th International Conference on Integrated Information, September 19-22, 2016, Athens, Greece (Published in Strategic Innovative Marketing (pp. 521-527). Springer, Cham.
38. Hana, Maha A., Elsayed Badr, Sally Gamal, and Naglaa Shehata, "Breast Cancer Microarray Dataset with the Decision Tree Classifier and Efficient Scaling Techniques.", International Journal of Computer Applications, Vol. 975, No. 4, pp. 8887-8891, 2021.

Books

1. Principles of C++ - المبادئ الأساسية للغة C++, Prof. Dr. Ebada Sarhan, Dr. Maha Attia and Dr. Alyaa Abdel Razek, 1st Edition, 2001.
2. Principles of C - المبادئ الأساسية للغة C, Prof. Dr. Ebada Sarhan, Dr. Maha Attia and Dr. Alyaa Abdel Razek, 1st Edition, 2002.
3. Descision Support Systems - نظم دعم وإتخاذ القرار, Prof. Dr. Ebada Sarhan and Dr. Maha Attia, 1st Edition, 2002.
4. Descision Support Systems - نظم دعم وإتخاذ القرار, Prof. Dr. Ebada Sarhan and Dr. Maha Attia, , 2nd Edition 2003.

 الصورة الشخصية	الاسم	مها عطية محمود هنا
	Name	Maha Attia Mahmoud Hana
	الاسم المستخدم فى النشر العلمى	Maha Hana
	الوظيفة الحالية وجهة العمل	أستاذ متفرغ – كلية الحاسبات والذكاء الاصطناعي – جامعة حلوان
	الدرجة العلمية (اسم الجامعة والدولة)	أستاذ
	التخصص العام	نظم معلومات
	التخصص الدقيق	نظم معلومات
	البريد الإلكتروني	Maha3hana@gmail.com
	المؤهلات العلمية	<ul style="list-style-type: none"> • دكتوراه في الهندسة الطبية – جامعة نورث كارولينا- الولايات المتحدة الأمريكية- ١٩٩٦ • ماجستير في الهندسة الطبية - كلية الهندسة – جامعة القاهرة - ١٩٨٩ • بكالوريوس في الهندسة الطبية - كلية الهندسة – جامعة القاهرة - ١٩٨٤
	السيرة الذاتية	مرفق السيرة الذاتية
	الأبحاث المنشورة	مرفق الأبحاث المنشورة
	الجوائز	لا يوجد