

## PERSONAL INFORMATION

## Laila Mohamed ElFangary



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Sex Female | Date of birth 25/05/1963 | Nationality Egyptian

## WORK EXPERIENCE

(Nov. 2010- present)

Professor- Information Systems Department  
Capital University (formerly Helwan University) -Faculty of Computers and Artificial Intelligence (Ain Helwan, Helwan, 11795, Egypt.

- Curriculum Leadership: Developed and modernized course curricula with a strategic focus on Sustainability, Corporate Governance, and the integration of Ethical Practices within technology and business management.
- Research Supervision: Supervised 23 completed dissertations (with 4 currently in progress) and served as an adjudicator for 50+ Doctoral and Master's dissertations.
- Academic Delivery: Delivered high-impact lectures and workshops focusing on the intersection of technology, digital transformation, and sustainable business practices.
- Student Engagement: Managed diverse student bodies and led initiatives focused on environmental awareness and sustainability within the academic community.
- Key Areas of Instruction
- Advanced Analytics & Data: Business Analytics, Data Mining, Data Warehousing, and Information Retrieval.
- Digital Strategy & Fintech: E-Business/E-Commerce, Foundations of FinTech, Digital Analytics, and Online Marketing.
- Governance & Systems: Corporate Governance, Systems Analysis & Design, Management Information Systems (MIS), and Internal Controls.

**Core Business:** Financial Accounting, Strategic Management, and Economics of Organizations.

**Business or sector Academia/Education:** Specializing in Information Systems and Technology with a focus on integrating sustainability into educational curricula and corporate governance, contributing to academic advancements and sustainable business practices within the higher education sector.

(Sept 2022-present)

Part Time Professor

NewGiza University- School of Business and Finance (New Giza, Km 22 Cairo-Alex Road, <https://ngu.edu.eg/ng-academic/school-of-business-and-finance/#> )

- Teach undergraduate courses with a focus on the ethical and responsible use of Artificial Intelligence (AI) in business and finance.
- Integrate AI tools into the curriculum, emphasizing their responsible and sustainable applications.
- Conduct training sessions for students and faculty on ethical AI practices to enhance their proficiency and awareness.
- Founding Developer of the Artificial Intelligence for Business undergraduate Program and course specification approved by the faculty in March 2026 to be implemented 2026/2027 Academic year
- Academic Contributor – AI for Banking Diploma in 2025-Present
- National Initiative: Central Bank of Egypt (CBE), EBI, & NewGiza University (SOBF)
- Technical Subject Matter Expert: Served as the founding developer; Lead Academic Representative & Technical SME for SOBF in the content development committee for Egypt's first national AI for Banking program.
- Content Curation: Responsible for researching and recommending academic resources, engineered technical frameworks, and curriculum content specifically for the AI modules.
- Collaborative Development: Participated in finalizing the program's technical structure alongside lead representatives from Injaz and the Central Bank of Egypt.
- Resource Alignment: Ensured the academic content met the strategic standards required for the national banking sector, with training hosted at SOBF facilities.

**Business or sector Education:** Specializing in Business and Finance, with an emphasis on incorporating advanced technology and ethical practices into the academic curriculum.

(Sept 2022-present)

**Member of the permanent scientific committee for Promotions**

Supreme Council of Universities-Scientific Committee for Promotions (Cairo University Headquarters (Campus), Giza.

[https://scu.eg/committee\\_members/](https://scu.eg/committee_members/)

- Serve on a nine-member committee responsible for evaluating the scientific contributions of nationwide candidates for professorial and assistant professorial positions in the fields of Computers, Information, and Management Information Systems.
- Oversee assessments for the fourteenth session covering the years 2022-2025.
- Oversee assessments for the fifteenth session covering the years 2025-2028.

Business or sector Education: Focused on the academic evaluation and promotion within the higher education sector, specifically in technology and management information systems.

(April 2024-April 2025)

**Member of the Egyptian Sector Committee for the Computer and Information Systems Institutes**

Appointed based on Ministerial Decree Number 757 dated 24 April 2024, issued by the Minister of Higher Education and Scientific Research.

Responsible for the comprehensive evaluation of the quality of education in Computer and Information Systems Institutes, including management, work environment, capabilities, quality, accreditation, and service quality.

Business or sector Education: Focused on evaluation of the quality of education in Computer and Information Systems Institutes.

(Sept 2022- June 2023)

**Head of Information Systems Department**

Capital University (formerly Helwan University) -Faculty of Computers and Artificial Intelligence (Ain Helwan, Helwan, 11795, Egypt.

- Leadership and Management: Oversee all departmental operations, ensuring they align with university policies and promote sustainable practices.
- Curriculum Development: Spearhead the incorporation of sustainability and ethical considerations into the Information Systems curriculum, aligning with current industry trends and technological advancements.
- Research Direction: Lead research initiatives that focus on sustainable technology solutions, supporting faculty in producing impactful, peer-reviewed publications.
- Faculty Development: Mentor faculty on integrating sustainability into their teaching and research, enhancing their professional growth.
- Resource Management: Implement sustainable resource management strategies to optimize budget, staffing, and technology use.
- Stakeholder Engagement: Foster collaborations with industry and academia to advance sustainable educational programs.
- Quality Assurance: Enhance educational standards through continuous quality assessments, focusing on sustainability outcomes.
- Student Support: Provide robust support for students, emphasizing the importance of sustainability in their academic and professional development.

Business or sector Education/Academia: Dedicated to advancing Information Systems and Technology with a strong emphasis on sustainability, preparing students to address real-world challenges through innovative and responsible technological solutions.

(Jan. 2010 – May 2011)

**Vice Dean of Graduate Studies and Research**

Capital University (formerly Helwan University) -Faculty of Computers and Artificial Intelligence (Ain Helwan, Helwan, 11795, Egypt.

- Graduate Program Management: Directed the development and administration of graduate programs, ensuring they align with academic standards and sustainability goals.
- Strategic Quality Assurance (2006; 2010): Played a key role in developing and implementing the Strategic Plan for Quality Assurance, focusing on educational excellence and sustainable development.
- Meeting Leadership: Chaired regular meetings to discuss and strategize on program developments, faculty contributions, and research initiatives.
- Community and Social Support: Acted as a board member of the social support fund and leader of the scouts committee, fostering community engagement and sustainability.
- Academic-Industry Collaboration (2003-2010): Managed the Oracle Academic Initiative Program, integrating advanced technology into curricula to support innovative and sustainable educational solutions.

Business or sector Education/Academia: Specialized in Information Systems and Technology, focusing on sustainability, preparing students to tackle real-world challenges through responsible and innovative technological applications.

(Sept 2008-Dec 2009)

**Vice Dean of Community Service and Environmental Development**

Capital University (formerly Helwan University) -Faculty of Computers and Artificial Intelligence (Ain Helwan, Helwan, 11795, Egypt.

- Sustainability Integration: Led initiatives to embed sustainability into both academic curricula and community activities, boosting the environmental and social impact of the faculty.
- Community Engagement Strategies: Developed and implemented engagement strategies that promoted sustainable practices, enhancing the faculty's commitment to environmental stewardship.
- Partnership Development: Collaborated with external organizations such as Microsoft and the Ministry of Communication and Information Technology to facilitate the IT Academy, providing cost-effective training and certification to the academic community.
- Technology for Sustainability: Spearheaded projects that utilized technology to achieve social and environmental benefits.

Business or sector Education/Academia: Specializes in Information Systems and Technology with a robust emphasis on sustainability, equipping students to solve real-world challenges through innovative and ethically driven technological solutions.

(Sept. 2005-Nov. 2010)

**Associate Professor- Information Systems Department**

Capital University (formerly Helwan University) -Faculty of Computers and Artificial Intelligence (Ain Helwan, Helwan, 11795, Egypt.

- Teaching: Delivered courses that integrate sustainable practices within the curriculum of Information Systems, preparing students for challenges in technology and ethics.
- Program Specification & Self-Assessment (2004-2007): Led the coordination and development of course specifications, program reports, and faculty reports under the project "Establishing Quality Assurance Mechanisms at Helwan University" (Project Code: B-131-K0), funded by the Higher Education Enhancement Project Fund (HEEPF), Ministry of Higher Education, Arab Republic of Egypt. This role included financial reporting and ensuring alignment with educational quality standards.

Business or sector Education/Academia: Specializes in Information Systems and Technology with a focus on sustainability, enhancing student readiness for real-world challenges through education that emphasizes responsible and innovative technology use.

(2002- 2005)

**Part Time Assistant Professor – Management Department**

American University in Cairo – School of Business, Economics, and Communications (AUC Ave, New Cairo 1, Cairo Governorate 11835, Egypt. <https://www.aucegypt.edu/>)

- Course Delivery: Taught a variety of courses related to management information systems and finance with practical applications.
- Student Engagement: Engaged students through dynamic teaching methods, emphasizing critical thinking and ethical decision-making in business.

Business or sector Education/Academia: Committed to providing high-quality education in business and management, integrating sustainability and ethical practices to prepare students for global business challenges.

- (April 2003- August 2004) **Lead Trainer, Middle Management Training Program**  
 Ain Shams University- Faculty of Commerce (El-Khalifa El-Maamoun, Abasseya, Cairo, Egypt.  
<https://www.asu.edu.eg/163/page>)
- **Program Leadership:** Participated as a lead trainer in a two-year program conducted in Ain Shams University by the Educational Leadership Consortium (composed of Faculty of Commerce at Ain Shams University in Egypt, General Technology as a representative of Northumbria University at Newcastle in UK, Program Planning Monitoring Unit (PPMU) as a representative of the Ministry of Education in Egypt and the European Union).
  - **Training Delivery:** Conducted and participated in training sessions covering a broad range of topics such as leadership, change management, educational reform, strategic planning, staff development, management information systems, and quality assurance.  
**Skill Development:** Enhanced the management and leadership capacities of middle managers, focusing on problem-solving, communication skills, and inspection and evaluation techniques.
  - **Delivered and got training on modules related to problem solving, leadership and management skills, change management, educational reform, teaching and learning, strategic planning, developing staff, management information systems and inspection and evaluation, communication skills and quality assurance and accreditation.**
- Business or sector Education/Academia: Dedicated to advancing Information Systems and Technology with emphasis on sustainability, preparing students to address real-world challenges through innovative and responsible technological solutions.
- (2000 - 2006) **Board Member (Expert)**  
 The Paste and Juice Company S.A.E. in Egypt (4th industrial zone, Sadat city, Menoufia, Egypt.  
<https://www.paste-juice.com/>)
- **Technology Integration:** Spearheaded the development and launch of the company's website in 2002, enhancing digital presence and customer engagement.
- Business or sector Manufacturing/Food and Beverage: Specializes in the production of paste and juice products, leveraging technology to improve operations and consumer accessibility.
- (July 1997-Aug. 2005) **Lecturer - Information Systems Department**  
 Capital University (formerly Helwan University)-Faculty of Computers and Artificial Intelligence (Ain Helwan, Helwan, 11795, Egypt).
- **Course Delivery:** Taught a variety of courses in Information Systems, focusing on the application of technology in business and ethical practices within the field.
  - **Statute Development:** Contributed to the preparation and translation of the Statutes of the Faculty of Computers and Information at Helwan University in 2003, facilitating governance and operational standards.
- Business or sector Education/Academia: Focused on advancing Information Systems and Technology, integrating sustainability into educational practices to prepare students for addressing global technological challenges.
- (1996-1997) **Assistant lecturer - Information Systems Department**  
 Capital University (formerly Helwan University)-Faculty of Computers and Artificial Intelligence (Ain Helwan, Helwan, 11795, Egypt).
- **Educational Support:** Assisted in the delivery of course material and provided academic support to undergraduate students, fostering a foundational understanding of Information Systems.
- Business or sector Education/Academia: Contributed to the education of future IT professionals with a focus on foundational knowledge and ethical practices in technology.
- (1986-1987) **Accountant**  
 Misr America International Bank (Garden City, Egypt)
- **Financial Reporting and Compliance:** Reported to department heads, responsible for auditing; managing financial transactions and ensuring compliance with financial regulations.
- Business or sector Banking/Finance: Engaged in financial operations and management within a banking institution, supporting business functions through accurate financial reporting and compliance practices.

## EDUCATION AND TRAINING

- (June 2024 – September 2025) **MBA in Prompt Engineering**  
 Apsley Business School London (ABS), Third Floor, Apsley House, London SW15 2SH, United Kingdom.  
 Level: EQF 7; Total Credits: ECTS 120; Language of instruction: English; Official length of programme: 24 Months  
 Mode of study: Full-time, teaching practice, classroom study, written examinations  
 Programme modules and results: Artificial Intelligence I (ECTS 15 – Excellent); Artificial Intelligence II (ECTS 15 – Very Good); Artificial Intelligence III (ECTS 15 – Very Good); Strategic Financial Analysis (ECTS 15 – Very Good); Strategic Human Resource Management (ECTS 15 – Very Good); Business Research Methodology (ECTS 15 – Very Good); Research Dissertation (ECTS 30 – Excellent).
- (March 2024 – July 2024) **Certified Fintech Practitioner (CFP)**  
 Offered by the London Institute of Banking and Finance in a span of a year or less getting practical fintech practices on:  
 How fintech is impacting business models across banking and finance  
 The benefits and applications of key technologies and how they influence financial product and service design and distribution  
 How risk and regulation are affecting fintech development across the globe  
 Different strategies for growth  
 Factors that determine success, such as funding, valuation, collaboration and exit
- (January 2024 – March 2024) **Certified Director**  
 Egyptian Institute of Directors EioD, Financial Regulatory authority (Smart City, 6 October, Egypt)  
 ▪ Completed the Corporate Directors Certification Program, focusing on advanced governance practices that enhance operational efficiency, risk management, and shareholder protection. Acquired skills in strategic oversight and sustainable corporate governance, emphasizing transparency, ethical leadership, and stakeholder engagement to support organizational sustainability and responsible management.
- June 2023-September 2023 **Advanced Generative AI Specializations**  
 Completed a comprehensive suite of professional certifications including **Prompt Engineering for ChatGPT** (Coursera), **ChatGPT Complete Guide: Learn Midjourney, ChatGPT 4 & More** (Udemy), and **Career Essentials in Generative AI by Microsoft and LinkedIn**. Expertise further developed through specialized training in Building ChatGPT Plugins: How They Work and How to Use Them, Generative AI for Business Leaders, Ethics in the Age of Generative AI, Leveraging Generative AI for Project Management, Trending Tools, ChatGPT Prompts for Jobseekers, ChatGPT Prompts for Small Businesses, Streamlining Your Work with Microsoft Bing Chat, How to Research and Write Using Generative AI Tools, Generative AI: The Evolution of Thoughtful Online Search, What Is Generative AI?, Introduction to Artificial Intelligence, and Midjourney: Tips and Techniques for Creating Images.
- (June 2023-September 2023) **Business Intelligence & Data Productivity**  
 Advanced proficiency in data visualization and professional presentation through LinkedIn Learning certifications in Excel: Mastering Pivot Table Dashboards and Reports, Excel: Dashboards for Beginners, Excel: Creating a Basic Dashboard, PowerPoint Essential Training (Microsoft 365), and PowerPoint: Creating an Infographic.
- (March 1999- June 2001) **Microsoft Certified Professional + Site Builder**  
 Microsoft ( <https://learn.microsoft.com/en-us/users/lailaelfangary-8263/transcript/vmzo6t6mx2x9lmg> )  
 Microsoft Courses Attended: Web Site Fundamentals; Designing and implementing Web Sites Using Microsoft FrontPage 98; Implementing Microsoft Site Server 3.0; Mastering Web Application Development Using Microsoft Visual Interdev

- (March 1999- June 2001) **Microsoft Certified Solution Developer**  
 Microsoft (<https://learn.microsoft.com/en-us/users/lailaelfangary-8263/transcript/vmzo6t6mx2x9lmg> )  
 Microsoft Courses Attended: Networking Essentials; Implementing and Supporting Microsoft Windows 2000 Server; Mastering Microsoft Visual Basic Fundamentals; Mastering Microsoft Visual Basic Development; Mastering Enterprise Development Using Microsoft Visual Basic; System Administration for Microsoft SQL Server 7.0; Implementing a Database on Microsoft SQL Server 7.0
- (July 1997) **Ph.D. in Business Administration**  
 Faculty of Commerce and Business Administration- Capital University (formerly Helwan University, Ain Helwan, Cairo, Egypt)
- (January 1991) **Master of Business Administration**  
 American University in Cairo (Cairo, Egypt)
- (February 1985) **Bachelor of Arts in Economics (Honors)**  
 American University in Cairo (Cairo, Egypt)
- (June 1980) **High School Diploma**  
 Barstow School, Kansas City, Missouri, USA

PERSONAL SKILLS

Mother tongue(s)  
 Other language(s)

| Arabic          |                 | SPEAKING           |                   | WRITING         |
|-----------------|-----------------|--------------------|-------------------|-----------------|
| UNDERSTANDING   |                 | SPEAKING           |                   | WRITING         |
| Listening       | Reading         | Spoken interaction | Spoken production |                 |
| Proficient user | Proficient user | Proficient user    | Proficient user   | Proficient user |
| Basic user      | Basic user      | Basic user         | Basic user        | Basic user      |

Communication skills

- Academic and Public Speaking: Proficient in conveying complex sustainability and technology concepts through lectures, workshops, and international conferences, tailoring communication to diverse audiences.
- Stakeholder Engagement: Experienced in building partnerships and leading community engagement initiatives that promote sustainability. Successfully aligns stakeholder interests with sustainable educational goals, demonstrated during my tenure as Vice Dean at Capital University (formerly Helwan University) where I led sustainability integration into curricula and community projects.
- Interdisciplinary Collaboration: Skilled in facilitating cross-disciplinary discussions and collaborations, enhancing understanding and implementation of sustainable practices within academic and technological frameworks.

Organisational / managerial skills

- Leadership in Academic Administration: As Vice Dean and Head of Department at Capital University (formerly Helwan University), directed multiple academic and administrative initiatives, overseeing curriculum development and faculty advancement with a focus on sustainable practices.
- Project Coordination: Managed interdisciplinary projects, including collaborations with Microsoft and Oracle, integrating sustainable technologies into educational frameworks.

Job-related skills

- Sustainability Advocacy: Acquired through roles in academia where I integrated sustainability into curricula and led community sustainability initiatives as former Vice Dean and teaching courses on Corporate Governance and Ethics, underpinned by a certification from the Egyptian Institute of Directors.
- Research and Development: Advanced through extensive scholarly work, leading academic research initiatives that contribute to the field of Information Systems with an emphasis on sustainability.

Technical skills

- **Advanced IT and AI Application:** Proficient in using advanced AI tools for research, educational purposes, and digital art creation. Extensive experience with Microsoft Office™ tools, AI platforms, and database management, acquired through academic and research activities.
- **Software Development and Integration:** Developed through projects implementing and managing technology solutions within educational settings, enhancing operational efficiencies and educational delivery.
- **AI Proficiencies:** Prompt Engineering, Generative AI Governance, LLM Implementation

Other skills

- **Corporate Governance:** Specialized in elevating corporate governance standards by leveraging advanced technological insights and integrating Artificial Intelligence (AI) tools. Demonstrated proficiency in optimizing decision-making processes and operational efficiency, ensuring robust governance frameworks that are responsive to dynamic market demands and regulatory environments.
- **Ethical Leadership:** Specialized in improving corporate governance standards within educational institutions by leveraging technological insights and ethical practices, ensuring compliance with regulatory standards.
- **Creative Technological Applications:** Demonstrated in digital art creation and the innovative use of AI tools for content development, showcasing a blend of technical proficiency and artistic creativity.

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| <p>Additional Information</p> <p>Journals Peer Review<br/>January 2024- Present</p> <p>Publications</p> | <p>Peer Reviewer for Education and Information Technologies<br/>Springer Nature listed in Scopus with quartile Q1 since 2005<br/><a href="https://orcid.org/0000-0001-8482-7926">https://orcid.org/0000-0001-8482-7926</a></p> <p><a href="https://orcid.org/0000-0001-8482-7926">https://orcid.org/0000-0001-8482-7926</a><br/><a href="https://scholar.google.com/citations?user=3luqT6kAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=3luqT6kAAAAJ&amp;hl=en</a><br/><a href="https://www.scopus.com/authid/detail.uri?authorId=24469778200">https://www.scopus.com/authid/detail.uri?authorId=24469778200</a></p>  |
|   | <p>[1] Elgamal, Zeinab Shoieb; ElFangary, Laila; Fahmy, Hanan. "The impact of using MLOps and DevOps on container-based applications: A survey," Faculty of Computers and Artificial Intelligence Helwan International Journal, vol. 7, no. 1, pp. 51–63, Jan. 2025, doi: 10.21608/fcihib.2025.261807.1105.</p> <p>[2] Fuller, Sebastian and ElFangary, Laila. "Review and Roadmap of AI in Egypt Trends and Directions Shaping the Future with Fintech". Duke of Wellington, Showcasing Innovation and Talent. Mecklenburg-Vorpommern Conference November 2024.</p> <p>[3] Elgamal, Zeinab Shoieb; ElFangary, Laila; Fahmy, Hanan. "A Machine Learning Operations (MLOps) Monitoring Model Using BI-LSTM and SARSA Algorithms" International Journal of Advanced Computer Science and Applications (IJACSA), 15(10), 2024. October 2024. <a href="http://dx.doi.org/10.14569/IJACSA.2024.0151060">http://dx.doi.org/10.14569/IJACSA.2024.0151060</a></p> <p>[4] ElFangary, Laila Mohamed. "Roadmap for Generative Models Redefining Learning in Egyptian Higher Education" International Journal of Advanced Computer Science and Applications (IJACSA), 15(2), 2024. February 2024. <a href="http://dx.doi.org/10.14569/IJACSA.2024.0150216">http://dx.doi.org/10.14569/IJACSA.2024.0150216</a></p> <p>[5] Rashwan, Abdullah R.; ElFangary, Laila; Azzam, Safaa M.; "A comparative study of artificial intelligence techniques for categorization and prediction of heart diseases", <u>Computing and Information Bulletin (CIB)</u>, Faculty of Computers and Artificial Intelligence, Helwan University, Volume 6, Issue 1 - Serial Number 20240601, Doi:10.21608/FCIHIB.2023.211465.1087, January 2024.</p> <p>[6] Rashwan, Abdullah R.; ElFangary, Laila; Azzam, Safaa M.; "Predicting heart disease using modified GoogLeNet convolutional neural network architecture based on the heart sound", <u>Information Sciences Letters</u>, Vol. 12, No. 11, 2837-2858 (2023), <a href="http://dx.doi.org/10.18576/isl/121101">http://dx.doi.org/10.18576/isl/121101</a>, 1 Nov. 2023.</p> |

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| Publications | <p>[7] Bahaa, Ahmed; Sayed, Abdalla; Elfangary, Laila; Fahmy, Hanan; "A novel hybrid optimization enabled robust CNN algorithm for an IoT network intrusion detection approach", <u>Plos one</u>, Vol. 17, No. 12, p. e0278493, Public Library of Science San Francisco, CA USA, <a href="https://doi.org/10.1371/journal.pone.0278493">https://doi.org/10.1371/journal.pone.0278493</a>. Dec. 1, 2022.</p> <p>[8] Amira Hassan Abed, M Nasr, L El-Fangary, Laila Abd Elhamid, "Applications of IoT in Smart Grids Using Demand Respond for Minimizing On- peak Load," <u>International Journal of Computer Science and Information Security (IJCSIS)</u>, Vol. 19, No. 8, August 2021, pp.95-119, DOI: 10.5281, ISSN 1947-5500.</p> <p>[9] NS Shehata, M Nasr, L El Fangary, L Abd El Hamid, "Algorithms of Deep Learning: Convolutional Neural Network Role with Colon Cancer Disease," <u>International Journal of Advanced Networking and Applications</u>, Vol 13, No 1, pp. 4827-4832, 08-31, 2021. <a href="https://www.ijana.in/download13-1-4.php?file=V13I1-4.pdf">https://www.ijana.in/download13-1-4.php?file=V13I1-4.pdf</a></p> <p>[10] Ahmed Bahaa, Ahmed Abdelaziz, Abdalla Sayed, Laila Elfangary, Hanan Fahmy: "Monitoring Real Time Security Attacks for IoT Systems Using DevSecOps: A Systematic Literature Review". <u>Information (Switzerland)</u>, Volume 12, Issue 4, 2021, pp.1-23, Article number 154. DOI:<a href="https://doi.org/10.3390/info12040154">10.3390/info12040154</a></p> <p>[11] Elfangary, L., Bahaa, A., Sayed, A., "A secured interoperable data exchange model" <u>International Journal of Advanced Computer Science and Applications</u>, Volume 9, Issue 1, 2018, pp. 253-260.</p> <p>[12] A Sayed, A Bahaa, L Elfangary, "A Proposed Interoperable Architecture for Educational Software Systems", <u>International Journal of Engineering Sciences &amp; Research Technology</u>, 5(12): pp. 941-947, December 2016, DOI: 10.5281/zenodo.222236</p> <p>[13] Elfangary, L.M., Yassin, A.E.A., Al-Sadek, A.F., "RGB MAPS: A proposed database for solving metabolic pathway hole", 2012 8th International Conference on Informatics and Systems, INFOS 2012; Cairo; Egypt; 14 - 16 May 2012; Category numberCFP1206J-ART; Code 917042012, Article number 6236513, Pages DE44-DE52</p> <p>[14] Ahmed Farouk Al-Sadek, Laila Elfangary, Alaa Eldin Abdallah Yassin, "Fuzzy-based Approach for Filling the Metabolic Pathway Hole", <u>International Journal of Computer Science Issues (IJCSI)</u>, Vol. 9, Issue 6, No 1, pp. 137-143, November 2012, ISSN (Online): 1694-0814.</p> <p>[15] E Haggag, L El Fangary, D Elzanfaly, "Proposed approach toward efficient web usage mining", 2012 8th International Conference on Informatics and Systems (INFOS), NLP-49-NLP-54, IEEE, 14 May 2012.</p> <p>[16] MS Farhan, ME Marie, LM El-Fangary, K Yehia, "Transforming conceptual model into logical model for temporal data warehouse security: a case study", (IJACSA) <u>International Journal of Advanced Computer Science and Applications</u>, pp. 115-122, Vol. 3, No. 3, 2012.</p> |
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## Publications

- [17] SE Salama, MI Marie, LM El-Fangary, YK Helmy, "Web anomaly misuse intrusion detection framework for SQL injection detection", (IJACSA) International Journal of Advanced Computer Science and Applications, pp. 123-129, Vol. 3, No. 3, 2012.
- [18] Laila Mohamed ElFangary, Maryam Hazman, An Abdallah, "Mining the Impact of Climate Change on Animal Production", International Journal of Computer Applications (0975 – 8887) Volume 59–No.18, pp. 25-29, December 2012
- [19] Marwa Salah Farhan, Mohamed E. Marie, Laila Mohamed El Fangary, Yehia K. Helmy, "An Integrated Conceptual Model for Temporal Data Warehouse Security". Computer and Information Science. Vol. 4, No. 4, pp 46-57, July 2011, Doi = {10.5539/cis.v4n4p46}.
- [20] Shaimaa Ezzat Salama, Mohamed I. Marie, Laila Mohamed El Fangary, Yehia K. Helmy, "Web Server Logs Preprocessing for Web Intrusion Detection," Computer and Information Science. Vol. 4, No. 4, pp.123-133, July 2011, Doi = {10.5539/cis.v4n4p123}
- [21] Laila A. Abd-Elmegid, Mohamed E. El-Sharkawi, Laila M. El-Fangary, Yehia K. Helmy "Vertical Mining of Frequent Patterns from Uncertain Data", Computer and Information Science, Canadian Center of Science and Education, Vol 3, No 2, May 2010, pp. 171-179. ISSN 1913-8989 (Print), ISSN 1913-8997 (Online).
- [22] Torkey Sultan, Laila M. ElFangary, Marwa M. Soliman, "Software Reengineering: Process Model and Supporting Techniques A case study applied on Egypt Post", Egyptian Computer Science Journal, pp. 17-35, vol. 35, No. 3, May 2010. ISSN: 1110-2586
- [23] Laila Mohamed ElFangary, "Mining of Egyptian missions' data for shaping new paradigms", Education and Information Technologies, April 2010, Springer Science+Business Media, LLC 2010, ISSN 1360-2357 (Print) 1573-7608 (Online), DOI 10.1007/s10639-010-9124-x.
- [24] Laila Mohamed ElFangary, Mahmoud Ahmed and Shaimaa Bakr "A Comparative Study of Spatial-Temporal Database Trends," International Journal of Computer Science and Network Security, IJCSNS, Vol.9 No.12, December 2009, pp. 75-88. ISSN: 1738-7906
- [25] Laila Mohamed ElFangary, "Mining Data of Buffalo and Cow Production in Egypt", The 4th International Conference on Frontier of Computer Science and Technology (FCST 2009), Sponsored by Shanghai Jiao Tong University and Shanghai Computer Society, 17-19 Dec. 2009, Shanghai, China, pp. 382 – 387, IEEE Conferences, ISBN: 978-0-7695-3932-4, DOI: 10.1109/FCST.2009.27
- [26] Laila Mohamed ElFangary, Mahmoud Ahmed and Shaimaa Bakr, "Review of k-Nearest Neighbour Search Methods Based on Grid Indexing Technique", 2009 International Conference on Information & Knowledge Engineering, IKE 2009, July 13-16, 2009, pp. 608-614. Las Vegas Nevada, USA, 2 Volumes. CSREA Press 2009, ISBN 1-60132-116-3.
- [27] Yehia K. Helmy, Mohamed E. El Sharkawi, Laila Mohamed ElFangary and Laila Abdel Megid, "Vertical Mining of Frequent Patterns Using, Diffset Groups," The International Conference on Intelligent Systems Design and Applications (ISDA), Pisa, Italy. IEEE Computer Society, Nov. 30, 2009-Dec. 2, 2009, pp. 1196 – 1201. IEEE Conferences, ISBN: 978-1-4244-4735-0, DOI: 10.1109/ISDA.2009.167.

## Publications

- [28] Laila Mohamed Elfangary, "Applying an Enhanced Algorithm for Mining Incremental Updates on an Egyptian Newspaper Website," NCM 2009 Fifth International Joint Conference on INC, IMS, and IDC Seoul, 25-27 August 2009, Seoul, Korea, IEEE Computer Society, pp. 1131-1135, IEEE Conferences. ISBN: 978-1-4244-5209-5, DOI: 10.1109/NCM.2009.151
- [29] Ahmed Sharaf Eldin, Laila Mohamed Elfangary and Faisal Taleb Khamayseh, "Evaluation of Learner Achievement Within Active Multimodal Presentation (AMP) and Static E-Learning Modes", Egyptian Computer Science Journal, pp. 11-27, vol. 32, No. 1, May 2009. ISSN: 1110-2586
- [30] Laila Mohamed Elfangary and Walid Adly Atteya, "Mining Medical Databases Using Proposed Incremental Association Rules Algorithm (PIA)" ICDS Proceedings of the Second International Conference on Digital Society, pp. 88-92, IEEE Computer Society, Sainte Luce, USA, February 10 - 15, 2008. ISBN:978-0-7695-3087-1, DOI: 10.1109/ICDS.2008.10  
Given best paper award by IARIA (International Academy Research and Industry Association)
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- [35] Yasser Sherif Elmanadili, Laila Mohamed Elfangary and Walaa Saber Ismail "A proposed module for A Semi-Automatic Generalization in GIS Context", International Journal of Intelligent Computing and Information Science. Faculty of Computers and Information Science, Ain Shams University, pp. 103-114, Vol. 6, No. 1, January 2006.
- [36] Torky Sultan, Laila Elfangary and Hala Abdel Hameed, "Analysis of E-Government in Egypt with Focus on Safaga City Project", Management Engineering Society Conference Titled: Project Management Vision for Better Future, Egyptian Society of Engineers, pp. 4/6 1-18, Cairo. 21-22 November 2005.
- [37] Ahmed Sharaf Eldin and Laila Mohamed Elfangary "Measuring the Effectiveness of Egyptian Electronic Commerce Websites Using the Web Assessment Method." Egyptian Computer Science Journal, vol. 27, No. 2, pp. 14-28. July 2005.
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## Publications

- [39] Yehia K. Helmy, Ali H. El Bastawisy, Laila M. El Fangry, Marwa Salah Farhan, "A Temporal Extension for Multidimensional Object Oriented Conceptual Model". Fortieth Annual Conference of Statistics and Computer Science and Operations Research; Institute of Statistical Studies and Research, Cairo University, December 2005.
- [40] Yehia K. Helmy, Mohamed E. El-Sharkawi, Laila M. El-Fangary, Laila A. Abd-Elmegid, "Efficient Mining of Frequent Itemsets Over Window-Based Data Streams." Third International Conference on Informatics, Faculty of Computers and Information, Cairo University, pp. 272-281, 19-22 March 2005.
- [41] Laila Mohamed ElFangary, "Forecasting the Load Data for Cairo Power System". Egyptian Computer Science Journal, vol. 25, No. 2, pp. 37-50. July 2004.
- [42] Laila Mohamed ElFangary, "A Comparative Study of E-business Models for Egypt". First International Conference on Intelligent Computing and Information Systems- ICICIS 2002. Ain Shams University, Faculty of Computer & Information Sciences. June24-26, 2002, Cairo, Egypt, pp 323-329
- [43] Laila Mohamed ElFangary, "Assessment of Controls Over Availability, Service Integrity, Security and Privacy for Enabling E-Commerce on the Internet – An Applied Study on Egypt ISP's". The Scientific Magazine for Research and Commercial Studies, Faculty of Commerce and Business Administration, Helwan University. April 2000, pp. 56-85.
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- [45] Laila Mohamed ElFangary, "Towards an Islamic Information Network with Focus on Islamic Banks: A Proposed Model". Egyptian Computer Science Journal, vol. 22, No. 1, January 2000. King Abdul Aziz Public Library. Riyadh, Saudi Arabia, 31 October-3 November 1999, pp. 155-200.
- [46] Laila Mohamed ElFangary, "Analysis of the Utilization of Information Technology in Egyptian Business Associations", The Scientific Magazine for Research and Commercial Studies, Faculty of Commerce and Business Administration, Helwan University. January 1999, pp. 245-274.
- [47] Laila Mohamed ElFangary, "Evolution of Information Centers in Egypt, An Applied Study of Nolans' stages of Growth Model". Science and Art (Research and Studies), Helwan University. July 1998. pp.123-166.

## Presentations

Presented a Review Article titled: Recent Trends in Internet Computing and Electronic Commerce, submitted to the permanent committee for promotion of associate professors, August 2005.

## Projects

Project: Establishing Quality Assurance Mechanisms at Capital University (formerly Helwan University)

Role: Lead Coordinator

Duration: August 2004 – May 2007

Details: Spearheaded the Program Specification & Self-Assessment for the Faculty of Computers & Information at Capital University (formerly Helwan University). Managed the coordination and development of course specifications, program reports, and faculty reports. Oversaw financial reporting and compliance as part of the Higher Education Enhancement Project (HEEPF), funded by the Ministry of Higher Education, Egypt. Project aimed at enhancing quality assurance mechanisms within the faculty to align with national educational standards.

## Conferences

Attended several conferences in the Information Systems Field and Participated as a member of the Operational Support Committee at the "First International Conference on Intelligent Computing and Information Systems- ICICIS 2002". Ain Shams University, Faculty of Computer & Information Sciences. June24-26, 2002, Cairo, Egypt.

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|--------------------|--|
| Seminars           | <p>Conducted presentations and seminars on Awareness of Academic Program Specifications Guidelines and Forms, Faculty of Computers and Information, Capital University (formerly Helwan University), September 2004-2009.</p> <p>Quality Standards in Teaching, Credit Hour Systems, Strategic Planning, Conference Organization, Research Team Management, Code of Ethics. Each a two-day workshop, Competency Development and on training Centre, Capital University (formerly Helwan University). Nov. 2009 – Jan. 2010</p> <p>Workshop of Self Evaluation of Higer Education Institutions, delivered by the National Authority for Quality Assurance and Accreditation of Education. 7-11 Feb. 2010, Capital University (formerly Helwan University) .</p> <p>Workshop of External Auditors of Higer Education Institutions, delivered by the National Authority for Quality Assurance and Accreditation of Education. 14-18 Feb. 2010, Capital University (formerly Helwan University) .</p>  |
| Honours and awards | <p>Certificate of Appreciation: Keynote speaker at 27th Scientific Conference on Generative AI and Models Exploring in Future Education and Healthcare for Egyptian Institutions, Egyptian Society for Information Systems and Computer Technology. Academy of Scientific Research, Cairo, 27th April 2024.</p> <p>Recognition Award as a trainer: Middle Management Training Program, June-2004<br/>A two-year program conducted in Ain Shams University by the Educational Leadership Consortium (composed of Faculty of Commerce at Ain Shams University in Egypt, General Technology as a representative of Northumbria University at Newcastle in UK, Program Planning Monitoring Unit (PPMU) as a representative of the Ministry of Education in Egypt and the European Union.</p> <p>Letters of appreciation for distinguished performance in courses that I taught - from the chair of the Management Department at the School of Business, Economics and Communication at the American University in Cairo for the Spring and Fall semesters, 2004. (Having obtained an average of 4.6/5 in the instructor student evaluation)</p> <p>Certificate of Recognition: First International Conference on Intelligent Computing and Information Systems- ICICIS 2002". Ain Shams University, Faculty of Computer &amp; Information Sciences. June24-26, 2002, Cairo, Egypt.</p>   |
| Memberships        | <p><b>Member of the committee for the Computer and Information Systems Institutes sector. May 2024, Egypt.</b></p> <p>Committee members are responsible nationwide for ensuring a comprehensive evaluation of various aspects of the educational and administrative processes within the institutes, to ensure compliance with required standards for quality and effectiveness.</p> <ul style="list-style-type: none"> <li>▪ Management Evaluation: Assessing management and previous managerial experiences, including the presence of heads for academic departments and deputies for the institute, and how they are appointed.</li> <li>▪ Work Environment Evaluation: Verifying the application of the automated information system for student affairs, the extent of training provided to employees, and the availability of electronic services for students.</li> <li>▪ Capabilities Evaluation: Checking the suitability of classrooms and lecture halls, the quality and completeness of facilities available for the educational process, and the modernity and safety of devices and equipment in the laboratories.</li> <li>▪ Quality and Accreditation Evaluation: Ensuring the presence of an effective quality unit at the institute and reviewing the institute's compliance with quality and accreditation standards.</li> <li>▪ Evaluation of Quality and Efficiency of Capabilities: Evaluating published scientific research and determining the development and effectiveness of the faculty members.</li> <li>▪ Service Quality Evaluation: Verifying that the institute has obtained equivalence from the Higher Education Council and assessing the quality of books and course materials.</li> </ul> |

## Memberships

**Member of the Implementation Team** that developed The Strategic Plan for Quality Assurance Capital University (formerly Helwan University), January 2006; 2010.

**Board member of the social support fund and leader of the scouts committee** at the Faculty of Computers and Information – Capital University (formerly Helwan University).

**Responsible for the follow up and coordination** of the Oracle Academic Initiative Program between the Faculty of Computers and Information, Helwan University and Oracle Egypt. 2003-2010.

**Coordinator of IT Academy** between Microsoft Company, Ministry of communication and information technology and the Faculty of Computers and Information, Capital University (formerly Helwan University). That provides students and academic community with software, training, and certification at minimal cost in 2008.

**Member of the committee preparing and translating** the Statutes of The Faculty of Computers and Information at Capital University (formerly Helwan University) in 2003.

**Member of Heliopolis Association 2006 - 2018**

**Head of education development, technology, and training committee. 2006 - 2011**

**Member of the schools' board of trustees. 2006 - 2011**

Participated in the one hundred Schools Development project, a project that was responsible for the development of 500 public schools in underprivileged communities in greater Cairo.

Responsibilities included:

- Follow up and executing training to all those engaged in the educational process of the schools.
- Implementing programs and training so that the schools involved meet requirement for school's accreditation and quality assurance by the National authority for quality assurance and accreditation of education NAQAEE.
- Coordination with Social Development Fund who financed the training supplied by Future Generation Foundation and training partners that included Berlitz, Dale Carnegie, and Westwood Misr; and with the project partners in Implementation of the technology, which included Ministry of communication and information technology and companies in the technology field such as smart international in Canada, Intel, and Epson.
- Recorded and issued reports regarding the participation of members of the project schools boards of trustees' participation in cooperation with Cairo Governorate this included school and cultural activities, discovering talented students, and providing care and assistance.

Outcomes:

- The school's project had computer labs with internet access at a ratio of one computer to fifty students and implemented internet outlets in every class, computers in the administration and the clinic. In addition, to installation of multimedia labs so every school had a minimum of one smartboard, TV, 1 overhead projector, Three trollys+3 datashow+3 laptop PCs.
- The integrated model solution encompassed donated Intel portable wireless classmate PCs on trolleys so that each student used the classmate PC in the class for a minimum of one or two lessons every school day.
- Utilization of donations to the project by Egyptian private educational consulting and publishing companies that included the software of the elementary school ministry curriculum that is developed using state of the art animation, voice, and videos. Also, donations included extensive monthly training on the use of the smart board and the classmate personal computers in everyday lessons.

Secretary of Lions Isis Cairo

2006 - 2012

Member of Palm Hills Club, Heliopolis Sporting Club, El-Gezira Sporting Club, Heliolido Sporting Club, National Sporting Club (ELAhly), Automobile and Touring Club of Egypt.

## References

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Professor Doctor: Osama Emam

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# Professor Dr. Laila M. ElFangary

Professional Summary 2026 | المهني الملخص 2026

## Professor of Information Systems and Artificial Intelligence

### English

Professor Dr. Laila M. ElFangary is a Professor of Information Systems with nearly three decades of teaching, research, academic leadership, and national service in Egypt. Her work spans artificial intelligence, generative artificial intelligence, prompt engineering, machine learning data mining, information systems, business analytics, corporate governance, digital strategy, and financial technology. She currently serves as Part Time Professor at NewGiza University School of Business and Finance and Professor in the Information Systems Department at Capital University, formerly Helwan University.

Dr. ElFangary earned her Bachelor of Arts in Economics with Honors and her Master of Business Administration from the American University in Cairo, and her PhD in Business Administration with a specialization in Management Information Systems from Capital University, formerly Helwan University. In 2025, she completed an MBA in Prompt Engineering from Apsley Business School in London, a Level EQF 7 program with 120 ECTS credits. She also holds executive and professional credentials in corporate governance, financial technology, and generative artificial intelligence, including certified corporate director (from the Egyptian Institute of Directors EloD in Collaboration with the International Finance Corporation IFC and accredited from the Financial Regulatory Authority FRA) and Certified Fintech Practitioner (from London Institute of Banking and Finance).

Her recent work includes service as a member of the Permanent Scientific Committee for Promotions of the Supreme Council of Universities and participation in sector-level quality evaluation for Computer and Information Systems institutes in Egypt. At NewGiza University, she is the founding developer of the Artificial Intelligence for Business undergraduate program, approved in March 2026 for implementation in the 2026/2027 academic year. She also serves as Academic Contributor and Technical Subject Matter Expert for the national AI for Banking Diploma developed through the Central Bank of Egypt, the Egyptian Banking Institute, Injaz Company and NewGiza University.

Dr. ElFangary previously served as Head of the Information Systems Department, Vice Dean of Graduate Studies and Research, and Vice Dean of Community Service and Environmental Development. She has supervised 23 dissertations, currently supervises 4 dissertations, and has adjudicated more than 50 doctoral and master's dissertations. She is a peer reviewer for Education and Information Technologies, a Springer Nature journal indexed in Scopus, and her publication record includes more than 50 papers in journals and conferences, with recent work on generative models in Egyptian higher education, machine learning operations, artificial intelligence in Egypt, and advanced computing applications.

LinkedIn profile: <https://www.linkedin.com/in/lailaelfangary/>

list of publications in Google Scholar: <https://scholar.google.com/citations?user=3luqT6kAAAAJ&hl=en>

list of publications in ORCID: <https://orcid.org/0000-0001-8482-7926>

الأستاذ الدكتور ليلي محمد الفنجري هي أستاذة في نظم المعلومات، ولديها خبرة تمتد إلى ما يقرب من ثلاثة عقود في التدريس والبحث العلمي والقيادة الأكاديمية والخدمة الوطنية في مصر. تمتد مجالات عملها إلى الذكاء الاصطناعي، والذكاء الاصطناعي التوليدي، وهندسة الأوامر، وتعلم الآلة، وتنقيب البيانات، ونظم المعلومات، وتحليلات الأعمال، وحوكمة الشركات، والاستراتيجية الرقمية، والتكنولوجيا المالية. وتشغل حاليًا منصب أستاذ في قسم نظم المعلومات بكلية الحاسبات والذكاء الاصطناعي بجامعة العاصمة، والمعروفة سابقًا بجامعة حلوان، وأستاذ بنظام الدوام الجزئي في كلية إدارة الأعمال والتمويل بجامعة نيو جيزة.

حصلت الدكتورة الفنجري على درجة البكالوريوس في الاقتصاد مع مرتبة الشرف، ودرجة الماجستير في إدارة الأعمال من الجامعة الأمريكية بالقاهرة، كما حصلت على درجة الدكتوراه في إدارة الأعمال مع تخصص في نظم معلومات الإدارة من كلية التجارة الخارجية بجامعة العاصمة، والمعروفة سابقًا بجامعة حلوان. وفي عام 2025، أتمت درجة ماجستير إدارة أعمال في هندسة الأوامر من كلية أسبلي للأعمال في لندن، وهو برنامج من المستوى.

كما تحمل مؤهلات تنفيذية ومهنية في حوكمة الشركات، والتكنولوجيا المالية، والذكاء الاصطناعي التوليدي، بما في ذلك شهادة عضو مجلس إدارة المعتمد من مركز المديرين المصري واعتماد الهيئة العامة للرقابة المالية بالتعاون مع مؤسسة التمويل الدولية. وكذلك شهادة ممارس معتمد في التكنولوجيا المالية من معهد لندن للمصرفية والتمويل.

تشمل أعمالها الحديثة عضويتها في اللجنة العلمية الدائمة للترقيات التابعة للمجلس الأعلى للجامعات، ومشاركتها في تقييم الجودة على مستوى القطاع لمعاهد نظم المعلومات وعلوم الحاسب في مصر. وفي جامعة نيو جيزة، تُعد المطور المؤسس لبرنامج البكالوريوس في الذكاء الاصطناعي للأعمال، الذي تمت الموافقة عليه في مارس 2026 لبدء تطبيقه في العام الأكاديمي 2027/2026. كما تعمل مساهمًا أكاديميًا وخبرة فنية متخصصة في دبلوم للذكاء الاصطناعي للقطاع المصري، الذي تم تطويره من خلال البنك المركزي المصري، والمعهد المصري في مصر، وجامعة نيو جيزة وشركة إنجاز.

وشغلت الدكتورة الفنجري سابقًا منصب رئيس قسم نظم المعلومات، ووكيل الدراسات العليا والبحوث، ووكيل خدمة المجتمع وتنمية البيئة. وقد أشرفت على 23 رسالة علمية، وتشرف حاليًا على 4 رسائل، كما قامت بتحكيم أكثر من 50 رسالة دكتوراه وماجستير. وهي محكم علمي في مجلة **Education and Information Technologies** التابعة لدار **Springer Nature** والمفهرسة في قاعدة **Scopus**، كما يضم سجلها العلمي أكثر من 50 بحثًا منشورًا في دوريات ومؤتمرات، مع أعمال حديثة في النماذج التوليدية في التعليم العالي المصري، وعمليات تعلم الآلة، والذكاء الاصطناعي في مصر، وتطبيقات الحوسبة المتقدمة.

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