



### *In Brief:*

- Doctor Engineer Marianne Amir Azer was appointed by President Abdel Fattah El Sisi as a member of **the Egyptian Parliament**, member of Telecommunications, and Foreign Affairs Committees in the Parliament. Jan 2016-Jan 2021.
- Before joining the parliament, she was the **Advisor to the Minister of Communication and Information Technology for Strategic Initiatives**.
- Board member of the Financial Regulatory Authority since May 2021
- **Associate Professor, and the director of Information Center** at the **National Telecommunication Institute**.
- **Associate Professor, Nile University (NU)**, Areas of Research and Lectures include but are not limited to: Security (Internet and all types of networks), Privacy, Cloud Computing Wireless Networks, Governance, Policies, Ethics and Legal Issues, Incident Handling and Disaster Recovery.
- **Vice President** of Information Systems Audit and Control Association (**ISACA**) board in Egypt 2019-Present.
- **President** of Information Systems Audit and Control Association (**ISACA**) board in Egypt 2018-2020.
- Member of the **Global Advisory Board on Emerging Technologies (ISACA) 2020-2021**
- Member of the **Global Advisory Board for Facebook Community Leadership Program** 2018-2019
- More than **80 scientific publications worldwide in the field of Communications and Information Technology**.
- Member of the **International Parliament for Tolerance and Peace (IPTP)**, 2018-2021
- **Chair of Women and Youth Committee** in the International Parliament for Tolerance and Peace.
- Member in the **Parliamentary Assembly Union for the Mediterranean (PA-UFM)** 2016-2021.
- Dr. Azer obtained her **BSc, MSc, and PhD in the Electronics and Communications Engineering**. She has more than **20 years of experience in Communications and Information Technology**.
- Throughout her career, she held several positions, either academic or managerial in several universities and organizations. To mention a few, the Ministry of Communication and Information Technology, the National Telecommunication Institute, Nile University, Cairo University, the American University in Cairo, the French University, the Arab Academy for Science and Technology and Maritime Transport.
- Dr. Azer is an author/ co-author of **over 80 publications** in refereed international journals and/or conference proceedings.
- **Received many awards and recognitions both on the international and national Levels, to mention a few:**
  - **April 2019** Awarded as **Woman of Decade in Academia** in the Women Economic Forum in India
  - **March 2019** Award from the Canadian Embassy in Egypt for her impact on the community.
  - Recognized in **March 2019 by the Arab Development Council for Women and Business as “Fingerprint Leader”**
  - **March 2018** by the Ministry of Culture among the **top 10 public figures** at the national level.
  - **January 2018**, Award for **top 50 influential** women in Egypt
  - **July 2017**, Award by the **Egyptian Parliament and recognition by the Speaker of the House**, as well as the Majority Leader for her excellence in the field of Communication and Information Technology.
  - **June 2017** Selected as one of **hundred Leaders in Technology around the world** by Global Biotech Revolution Organization
  - **Feb 2017** Honored by the organization of African Arab Unity for her role in Engineering Education
  - **March 2016**, Awarded in Washington DC for **excellence in Public Service** from former US Congressman Nick Rahall. The awards ceremony was hosted by the Embassy of Egypt in **Washington** with the American Arab Anti-Discrimination Committee Women’s empowerment Forum (ACD-WEF)

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- **April 2016**, Award by **Nile University** for her contributions in the Communication and Information Technology Sector.
- **September 2008**, Award for Scientific Research in the field of Communications Engineering by the **Academy of Scientific Research & Technology**.
- Ranked among the **Top 10 Public Speakers in Egypt in the year 2010**, and invited as a keynote speaker in many international events. To name a few: International Telecommunication Union (**ITU**), Information Systems Audit and Control Association (**ISACA**), **World Bank**, **Rotary International**.
- Holds many certificates from the USA in **Human Development**.
- **Member of International and National organizations** in Diverse fields such as Telecommunications, Politics, Women, Science, Technology, Culture, angel investment, and governance.



#### **INTERNSHIPS AND FELLOWSHIPS**

- **August 2019** Selected by the Ministry of Foreign Affairs in Singapore to be a Participant in the **12<sup>th</sup> Leaders in Governance Program Singapore**, attended by decision makers from all over the world.
- **February 2019** Selected by the Canadian Embassy in Cairo to be a co-host of FemParl, A program for Women Parliamentarians for Capacity Building.
- **June 2017** Fellowship from Global Biotech Revolution Organization to attend the Gap Summit 2017 in Washington DC. The Gap Summit Mission is to inspire and train Leaders of Tomorrow to catalyze innovation, help build the global bioeconomy, and facilitate communication through three core values: Challenge, Grow, Connect. It tackles diverse areas such as: Technology, Research and Innovation , Sustainability and Development, Precision Medicine and Diagnostics Education, Science Policy and Regulation. The research team of Dr. Azer got the second award for their poster.
- **June 2013** Awarded with a fellowship for Women in Business Management. The program was organized by the American Embassy in Egypt in cooperation with Mashura Center. The program was targeting women in managerial positions and Entrepreneurs from Different sectors. WiBM brought together a diverse group of women in management positions from different industries and sectors to participate in a series of training programs that strengthen management capacity, teach different methods of leadership, widen women's networking opportunities and provide guidance on how to be a mentor for other women in the community. WiBM was designed to draw on the strengths and successes of women in business, to empower women to fully realize their leadership potential and to bring forth voices that will collaborate for the advancement of their businesses and for the advancement of other young women entering a competitive job market.
- **January 2011** Awarded with an internship "Engineering Pathways from Education to Employment Program". The purpose of this professional development program is to expose professionals from the Middle East and North Africa region, to the way that organizations and individuals guide and influence young people in their educational and career choices. The goal of the program is to improve employment prospects for young people in your country. This program is sponsored by the state department.
- **January 2009** Awarded with an internship for women Engineers organized by the Center for Engineering Education and Practice (HP-CEEP) at the University of Michigan Dearborn in the USA. During the period from April 2009 to June 2009.

#### **SOME INVITED TALKS**

In addition to the publications presentations and international talks, She was ranked in 2010 among the top 10 public speakers in Egypt. Here are some of the invited talks and presentations:

- Internet Governance Forum (IGF), November 2019, Berlin, Germany.
- "Inclusion and Diversity", Rotary International Convention, Hamburg, Germany, with thirty thousand Attendees, June 2019.
- "Innovation using Technology", Rotary African Academy, Sharm El Sheikh, Egypt, October 2019
- Facebook Community Leadership Program (FCLP), South Africa, February 2019.
- Women economic empowerment forum April 2019, New Delhi, India. Awarded by Woman of Decade in Academia.
- International Telecommunication Union (ITU) World Radio Communication Conference (WRC), October 2019, Sharm El Sheikh.

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- WORLD BANK 2019 Global Parliamentary Conference April 2019, Washington DC.
- OECD Parliamentary Group on Artificial Intelligence Rapporteur for Parliamentary Assembly of the Mediterranean (PAM) on Artificial Intelligence. December 2020, online meeting.
- The 13th International Conference on Availability, Reliability and Security (ARES 2018), August 2018, Hamburg, Germany
- March 2019, Challenges of Governance in Digital Economy, Jordan
- Information Systems Audit and Control Association (ISACA), Cyber Security Nexus (CSX) Conference for North America, October 2017, Washington DC, USA.
- American Chamber of Commerce U.S. Business Mission Luncheon Meeting and Ministerial Panels, October 2018 Chamber of Commerce, the U.S.-Egypt Business Council, the Egypt-U.S. Business Council, and the American Chamber of Commerce in Egypt are organizing a major U.S. Business Mission from October 23rd through the 25th, 2018. More than 45 leading American companies, represented by senior executives, have joined the Mission to underscore the continued commitment and unwavering support of the American business community to Egypt’s long-term stability and economic development.
- ITU High Level Regional Meeting for Building Partnership with Academia in the Field of Cybersecurity, December 2018, Amman, Jordan
- ARAB Women in Computing Conference, August 2017, American University, Lebanon
- Information Systems Audit and Control Association (ISACA) Global Leadership Summit, Chicago, October 2018.
- “Mediterranean of the Future” on Technology Innovation, France, November 2018.
- Middle East and North Africa Women in Technology Congress, October 2019, Omman
- Special CEO Working Session, June 2018 - Windhoek, Namibia.
- Union for the Mediterranean third High-level Conference, October 2016, Barcelona
- 12TH LEADERS IN GOVERNANCE PROGRAMME, August 2019, Singapore
- ITU Regional Cyber Security Summit, under the theme “Boundless collaboration, Boundless Protection, Sharm El Sheikh - Egypt, 30 Oct. - 1 Nov. 2016
- The Fourth Edition of the Middle East DNS Forum, Steinberger Hotel El Tahrir Cairo, May 2017.
- ITU Regional Cyber Security Summit, under the theme “Boundless collaboration, Boundless Protection, Sharm El Sheikh - Egypt, 30 Oct. - 1 Nov. 2016.
- Women Leadership Forum August 2016 Togo.
- Training for Libyan women parliamentarians in Legislation writing, 23-25 February 2017, Tunisia.
- “Cybersecurity in the Era of Emerging Technologies” by the International Telecommunication Union (ITU), the Talk was entitled “IoT Security”, November 17.
- Cyber Security CSX 2017 Conference for North America, “She Leads Panel”, Washington DC October 17.

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- AUSACE 22nd Annual Conference” Journalism and Mass Communication in the Age of Instant information, The talk was about Egyptian Women Empowerment, American University in Cairo, October 2017.
- “Arab Security Conference”, the talk was about Internet of Things Privacy Challenges
- Arab Women in Computing Annual Conference, the talk was entitled “Challenges for Women in Technology”, in the American University of Beirut, August 2017.
- Internet Corporation for Assigned Names and Numbers (ICANN) DNS Conference, “Women in Technology”, May 2017
- Rotary Annual Conference, “The Role of Women in Egypt”, Hurgada, May 2017
- E-Government Symposium Organized by the Arab League , “Information Privacy”, April 2017
- Presidential Leadership Training Program (PLP) “Information Security Threats and Best Practices”, Jan 2017
- ITU international Cyber Security Conference, “Data Privacy Challenges”, October 2016
- First Youth Conference in the presence of the President of Egypt :”The Role of Information Technology in Combatting Corruption”, October 2016.
- First Youth Conference in the presence of the President of Egypt :”Introduction to Information Security”, October 2016.
- First Youth Conference in the presence of the President of Egypt :”The Role of Women in Politics”, October 2016
- “The Technology based Learning Culture”, Nile University: August 2016.
- “ Women Leadership Success Stories”, Togo, Africa, August 2016 (In French”.
- “ The Role of Women in Political Life”, 3<sup>rd</sup> Union for the Mediterranean Conference, Barcelona, October 2016.
- “ The Treasure of Egypt”, Washington DC, April 2016.
- Invited Speaker and panel member in “the NYUAD (New York University Abu Dhabi) Conference on **”Women in Computing in the Arab World”**, UAE, May 2015.
- Invited speaker and panel member in “the NYUAD (New York University Abu Dhabi) Conference on **”Women in Computing in the Arab World”**, UAE, March 2012.
- Invited to attend and contribute in a workshop in Morocco, September 2011 organized by the University of Michigan focused on Education to Employment meant for helping to form a database for providing internships to students at companies in the US and in Egypt.
- **Keynote speaker in “IEEE EDUCON”**, Conference, Jordan, April 2011, **“Challenges in Engineering Education”**.
- Speaker in the **U.S. National Academies and Kuwait Institute for Scientific Research (KISR)** were bringing together young scientists, engineers, and medical professionals from the United States and the countries of the Arab League, October 2010.

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- **Invited Speaker in Hackers Halted Conference**, Egypt, December 2010.
- Invited Speaker in **Women and Science and Engineering Workshop**, UAE, May 2010

### **MEMBERSHIPS**

- Vice President, Information Systems Audit and Control Association, Cairo Chapter (The only chapter in Egypt)
- Scientific Research Committee, National Council of Women
- Board Member of Arab Young Scientists Organization
- Communication and Information Technology Committee, Egyptian Parliament 2016-2021
- Board Member of the Technology Hub University in Egypt (TKH)
- Co-Founder and Member of the Arab Women in Computing (AWIC), <http://arabwic.org/a> Syster affiliate of the well-known Anita Borg Institute  
<http://anitaborg.org/get-involved/systers/systers-communities/>
- Board member of Cairo University Council for culture
- Board member of the National governance committee, a decree by the Prime Minister 2017-2019.
- Member of the Culture committee of the Parliamentarian union for the Euro Mediterranean countries, and a member of the Telecommunication Committee in the Egyptian Parliament, and foreign affairs committee in the Egyptian Parliament. Also an appointed member of the Ethics Committee, Egyptian Parliament 2016-2021
- Egyptian Council for Foreign Affairs, a leading Egyptian civil society organization concerned with the Egyptian by providing ideas and initiatives on them.
- Foreign Affairs Committee, National Council of Women
- Institute of Electrical and Electronics Engineers (IEEE)
- Association for Computing Machinery (ACM)
- IFIP working group 8.4, the aim of this working group is to promote collaboration across disciplines in E-Business Information Systems research and practice.

### **SOFT SKILLS TRAINING AND CERTIFICATES**

#### **Received a training in the US on the following skills:**

- Negotiation Skills
- Engineering and Technical leadership

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- Disciplines for Building Highly Performing Learning Organizations
- Communication Skills
- Team work

**Received training by the American Embassy in cooperation with Mashura Center in Business Management. The course had several tracks:**

- Strategic Management
- Business Etiquette
- Leadership Skills
- Art of Effective Delegation
- Building High Performance Teams
- Conflict Resolution- Dealing with Difficult People
- Emotional Intelligence at Workplace
- Personal Branding
- Emotional Freedom Techniques and Success at Workplace
- Communication Strategies
- Social Media
- Coaching and Mentoring
- Work and Life Balance Skills and Stress Management

**SOME PUBLICATIONS:**

1. Vehicle Software Update over ICN Architectures." In International Conference on Ad Hoc Networks, pp. 44-54. Springer, Cham, 2020.
2. "Using Blockchain Technology for the Internet of Vehicles" in the 2021 International Mobile, Intelligent, and Ubiquitous Computing Conference (MIUCC), 2021.
3. "Traffic Analysis for Real Time Applications and its Effect on QoS in MANETs", in the 2021 International Mobile, Intelligent, and Ubiquitous Computing Conference (MIUCC), 2021.
4. Vehicular Networks Applications based on Blockchain Framework", Springer Book, Enabling Machine Learning Applications in Data Science.
5. Survey and Taxonomy of Information-Centric Vehicular Networking Security Attacks, accepted for publication in the journal of Ad Hoc Networks
6. Evaluating the Modsecurity Web Application Firewall Against SQL Injection Attacks," *2020 15th International Conference on Computer Engineering and Systems (ICCES)*, 2020, pp. 1-6.



7. Detecting Mimikatz in Lateral Movements Using Mutex," 2020 15th International Conference on Computer Engineering and Systems (ICCES), 2020.
8. "Mitigating IoT Security Challenges Using Blockchain," *2020 15th International Conference on Computer Engineering and Systems (ICCES)*, 2020,
9. "Security Framework for Internet of Things (IoT)," *2020 15th International Conference on Computer Engineering and Systems (ICCES)*, 2020,
10. "Survey of Code Reuse Attacks and Comparison of Mitigation Techniques." Proceedings of the 2020 9<sup>th</sup> International Conference on Software and Information Engineering (ICSIE). PP. 88-96.
11. "Crypto-SAP Protocol for Sybil Attack Prevention in VANETs." *Advances in Computer, Communication and Computational Sciences*. Springer, Singapore, 2020. 143-152.
12. "Design and Implementation of Robust Firefighting/Intruder Detection System Using Fuzzy Logic Decision Control (FIDFUZ)," 2019 14th International Conference on Computer Engineering and Systems (ICCES), Cairo, Egypt, 2019, pp. 151-157.
13. "Cyber Threats and Policies for Industrial Control Systems," 2019 International Conference on Smart Applications, Communications and Networking (SmartNets), Sharm El Sheik, Egypt, 2019, pp. 1-6.
14. "Enterprise WLAN Security Flaws: Current Attacks and Relative Mitigations", in the International Conference of Availability Reliability and Security, ARES 2018: 34:1-34:8
15. "Tunnel-Based EAP Effective Security Attacks WPA2 Enterprise Evaluation and Proposed Amendments", in the 10<sup>th</sup> International Conference on Ubiquitous and Future Networks ICUFN 2018: 268-273
16. A New Signaling Exploitation Framework", in the 10<sup>th</sup> International Conference on Ubiquitous and Future Networks", ICUFN 2018: 481-486.
17. "Security Perspective in RAMI 4.0," *2018 13th International Conference on Computer Engineering and Systems (ICCES)*, Cairo, Egypt, 2018, pp. 151-156.
18. "Detection and Countermeasures of DDoS Attacks in Cloud Computing", in the 10<sup>th</sup> International Conference on Ubiquitous and Future Networks ICUFN 2018: 708-713.



19. "User Privacy in Legacy Mobile Network Protocols," 2018 3rd International Conference on System Reliability and Safety (ICSRS), Barcelona, Spain, 2018, pp. 109-114.
20. "Intrusion and Ransomware Detection System", in the ICCAIS' 2018 1st International Conference on Computer Applications & Information Security, April 2018.
21. "Sybil Attack Prevention through Identity Symmetric Scheme in Vehicular Ad-Hoc Networks", in the 10th Wireless Days Conference WD'18, April 2018.
22. "Web Deception System Framework", in the ICCAIS' 2018 1st International Conference on Computer Applications & Information Security, April 2018.
23. "Web Application API Blind Denial of Service Attacks," 2018 14th International Computer Engineering Conference (ICENCO), Cairo, Egypt, 2018, pp. 249-253.
24. "A Real-Time Social Network- Based Traffic Monitoring & Vehicle Tracking System," 2018 13th International Conference on Computer Engineering and Systems (ICCES), Cairo, Egypt, 2018, pp. 163-168.
25. "IoT Agile Framework Enhancement", in the ICCAIS' 2018 1st International Conference on Computer Applications & Information Security, April 2018.
26. "Health Records Privacy Issues in Cloud Computing," 2018 1st International Conference on Computer Applications & Information Security (ICCAIS), Riyadh, 2018, pp. 1-6.
27. "Malware Incident Handling and Analysis Workflow," 2018 14th International Computer Engineering Conference (ICENCO), Cairo, Egypt, 2018, pp. 242-248.
28. "Web Application API Blind Denial of Service Attacks," 2018 14th International Computer Engineering Conference (ICENCO), Cairo, Egypt, 2018, pp. 249-253.
29. "A study in WPA2 enterprise recent Attacks", in the 13th International Computer Engineering Conference, ICENCO 2017, IEEE.
30. "Internet of Things Security Framework", in the 13th International Computer Engineering Conference, ICENCO 2017, IEEE.
31. "Correlation Between Protocol Selection and Packet Drop Attack Severity in Ad Hoc Networks", in the 13th International Computer Engineering Conference, ICENCO 2017, IEEE.
32. "Cloud Computing Privacy Issues, Challenges and Solutions", in the 12th International Conference on Computer Engineering and Systems (ICCES), IEEE, pp. 154- 160, 2017.



33. "IoT Ethics Challenges and Legal Issues", in the 12th International Conference on Computer Engineering and Systems (ICCES), IEEE, pp. 233- 237, 2017.
  34. "Replay Attack on Lightweight CAN Authentication Protocol", in the 12th International Conference on Computer Engineering and Systems (ICCES), IEEE, pp. 600- 606, 2017.
  35. "Correlation between protocol selection and packet drop attack severity in ad hoc networks," *2017 13th International Computer Engineering Conference (ICENCO)*, Cairo, 2017, pp. 383-387.
  36. "Cloud Computing Security: Challenges And Future Trends", *International Journal of Computer Applications in Technology, IJCAT*, Vol. 55, No. 2, pp.158–172. 2017.
  37. "Lightweight Authentication Protocol Deployment over FlexRay." In *Proceedings of the 10th International Conference on Informatics and Systems*, pp. 233-239. ACM,
  38. "MDAC: A New Reputation System for Misbehavior Detection and Control in Ad Hoc Networks", in *The 19th International Computer Science and Engineering Conference (ICSEC15)*, November 2015, Proceedings by IEEE
  39. "Prevention of Multiple Coordinated Jellyfish Attacks in Mobile Ad Hoc Networks", *International Journal of Computer Applications* Vol. 120 No. (20):12-20, June 2015
  40. "A Secure and Privacy-Preserving Event Reporting Scheme for Vehicular Ad Hoc Networks", *Journal of Security and Communication Networks*, Volume 8, Issue 17, Pages: 3271–3281, April 2015.
  41. "Weighted Cluster Head Election in Wireless Sensor Networks", *International Journal of Information Assurance and Security*, Volume 10, Issue No. 4, pp.174 - 182, ISSN: 1554-1010, 2015
  42. "Cluster Head Election in Wireless Sensor Networks", *Proceedings of the 10th International Conference on Information Assurance and Security, IAS 2014*, Okinawa, Japan, pp.1-5, Published by IEEE.
  43. "Jamming Attacks on VANETs", *Proceedings of the Third ASE International Conference on Cyber Security*, Stanford USA
  44. "SAODV and Modified SAODV Performance Comparison", *Proceedings of the 8th International Conference on Computer Engineering & Systems (ICCES) 2013*, pp. 95-98, Published by IEEE.
- \*Best Student Paper Award

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45. "A Novel Proximity Based Trust Model for Opportunistic Networks" Proceedings of the 2013 Eighth International Conference on Availability, Reliability and Security (ARES), pp. 281-284, Published by IEEE.
46. "Hardware Advancements Effects on MANET Development, Application and Research". Proceedings of the international Conference SecNet 2013, published also in Advances in Security of Information and Communication Networks, pp. 44-53, by Springer Berlin Heidelberg, 2013.
47. "Towards Efficient and Secure Cloud." Proceedings of the Third International Conference on Advances in Computing and Communications (ICACC), 2013, pp. 134-140, Published by IEEE.
48. "Performance Evaluation of AODV under DoS attacks." Proceedings of the Wireless and Mobile Networking Conference (WMNC), 2013 6th Joint IFIP, pp.1-4, Published by IEEE.
49. "Janitor, Certificate and Jury (JCJ) Trust Scheme for Wireless Ad-hoc Networks", Proceedings of the 2012 Seventh International Conference on Availability, Reliability and Security (ARES), pp. 383-387, Published by IEEE,
50. "Security access control research trends", Proceedings of the Wireless and Mobile Networking Conference (WMNC), 2013 6th Joint IFIP, pp. 1-6, Published by IEEE.
51. "Mitigating Sybil attacks in Vehicular Ad Hoc Networks", Proceedings of the IEEE International Conference on Communications, Networks and Satellite, COMNETSAT 2012, pp.35-39, Published by IEEE.
52. "Organizational Risk Assessment Based on Attacks Repetition" Proceedings of the 2012 Seventh International Conference on Availability, Reliability and Security (ARES), pp. 286-290, Published by IEEE.
53. "Combating Sybil Attacks in Vehicular Ad Hoc Networks", Proceedings of Third International Conferences, WiMo 2011, published in Recent Trends in Wireless and Mobile Networks Communications in Computer and Information Science, Springer 2011, Volume 162, Part 1, pp. 65-72.
54. "Wormhole Attacks Mitigation in Ad Hoc Networks." Proceedings of the 2011 Sixth International Conference on Availability, Reliability and Security (ARES), pp. 561-568, Published by IEEE.
55. "Immunizing the SAODV protocol against routing information disclosure." Proceedings of the 2011 International Conference for Internet Technology and Secured Transactions (ICITST), pp. 330-334, Published by IEEE.



56. "Cultural Challenges in Developing E-Learning Content", in the International Journal of Emerging Technologies in Learning (iJET), ISSN: 1863-0383, Vol 6 No. 11, pp.11-14, March 2011.
57. "Cultural Challenges in Developing E-Learning Content", Proceedings of the 13th International Conference of Learning, Interactive Computer Aided Learning, ICL 2010, Hasselt, Belgium, September 15-17.
58. "Cooperation Incentives in Wireless Ad hoc Networks", Proceedings of the 2010 2nd International Conference on Education Technology and Computer (ICETC), vol. 5, pp. 332-337, Published by IEEE.
59. "An innovative approach for the wormhole attack detection and prevention in wireless ad hoc networks", Proceedings of the 2010 International Conference on Networking, Sensing and Control (ICNSC), pp. 366-371, Published by IEEE.
60. "Immuning routing protocols from the wormhole attack in wireless ad hoc networks", Proceedings of the Fourth International Conference on Systems and Networks Communications, 2009(ICSNC'09) , pp. 30-36, Published by IEEE.
61. "A Full Image of the Wormhole Attacks Towards Introducing Complex Wormhole Attacks in wireless Ad Hoc Networks", in the International Journal of Computer Science and Information Security, IJCSIS, ISSN: 1947-5500 , Special Issue May 2009.
62. "Security in Ad Hoc Networks From Vulnerability to Risk Management", Proceedings of the International Conference on Emerging Security Information, Systems and Technologies, SECURWARE 2009, pp. 203-209, Published by IEEE.
63. "Preventing Wormhole Attack in Wireless Ad Hoc Networks using Cost-Based Schemes", Proceedings of the International Conference on Security and Cryptography, SECRIPT 2009, pp. 69-74, Italy.
64. "E-learning Policies Strategies Tools and Content Development: A case Study", in IEEE Multidisciplinary Engineering Education Magazine", Vol 3 No. 3, September 2008.
65. "Comparative Performance Evaluation using OPNET Simulations of a Scheme for Intrusion Detection and Response in Ad Hoc Networks based on Attack Graphs", OPNETwork 2008, Washington DC, USA, August 2008



66. "Intrusion Detection for Wormhole Attacks in Ad hoc Networks: A Survey and a Proposed Decentralized Scheme," Proceedings of the Third International Conference on Availability, Reliability and Security, Spain, ARES 2008, pp. 636-641, Published by IEEE.
67. "A Survey on Trust and Reputation Schemes in Ad Hoc Networks," Proceedings of the 2008 Third International Conference on Availability, Reliability and Security, ARES 2008, pp. 881-886, Published by IEEE.
68. "A Scheme for Intrusion Detection and Response in Ad Hoc Networks", Proceedings of the New Technologies, Mobility and Security, NTMS2007, Published by Springer 2007, Print ISBN 978-1-4020-6269-8, pp. 507-516.
69. "Using Attack Graphs in Ad Hoc Networks for Intrusion Prediction Correlation and Detection", Proceedings of the International Conference on Security and Cryptography, SECRIPT 06, Portugal, pp. 63-68.
70. "A Survey on Anomaly Detection Methods for Ad Hoc Networks", Ubiquitous Computing and Communication Journal, UBICC, Volume 2 Issue 3, June 2007.
71. "Security Schemes in Ad Hoc Networks a Survey and New Challenges", Ubiquitous Computing and Communication Journal, UBICC, Volume 2 Issue 3, June 2007.
72. "Threshold Cryptography and Authentication in Ad Hoc Networks Survey and Challenges", Proceedings of the Second International Conference on Systems and Networks Communications, ICSNC 2007, August 2007, Published by IEEE
73. "Certification and Revocation Schemes in Ad Hoc Networks Survey and Challenges", in the Second International Conference on Systems and Networks Communications, ICSNC 2007, Published by IEEE.
74. "A Known-Plaintext Attack on the Nonlinear Feedforward Generator", Proceedings of the International Conference on Informations and Communications Technology, ICICT 2003.
75. "E-learning in Developing Countries: Cultural Challenges and Beyond", Proceedings of the 6th Conference on e-Learning Applications, January, 2009
76. "Capacity Building in the New Era Using Blended e-learning", Proceedings of the 6th International Conference on Information and Communication Technology, ICICT2008, pp. 123-127, Published by IEEE.

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77. "The National Telecommunication Institute E-Learning Content Development Methodology ", Proceedings of the 3rd International Conference on Interactive Mobile and Computer Aided Learning, IMCL 2008, Jordan, April 2008.
78. "The National Telecommunication Institute E-Learning Policies and Strategies", Proceedings of the 3rd International Conference on Interactive Mobile and Computer Aided Learning, IMCL 2008, Jordan, April 2008.
79. "NTI E-Learning System", Proceedings of the 4th International Conference on e-Learning Applications, American University in Cairo, Jan 2006.
80. "E-Learning in Egypt, Challenges and Suggested Solutions", Proceedings of the 3rd International Conference on e-Learning Applications, American University in Cairo, Jan 2005

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#### **LANGUAGE CERTIFICATES**

- **TOEFL** (Test of English as a Foreign Language) score: 108 out of 120
- **Alliance Française** (French Language Certificate from France).
- **Français Scientifique** (Scientific French Certificate from France).

#### **HOBBIES**

- Sports: Swimming, Jogging, Basketball, Volleyball, Tennis, Gymnastics , (جمباز). ( Ranked as the second all over Egypt in Swimming ,)
- Music.

#### **Awards Received:**

- Swimming Championships ( Ranked second all over Egypt in Swimming)
- Basketball medals. (Was a member of First Team Basketball Gezira Sporting Club, Participated in Volleyball and Basketball competitions to represent Cairo University Faculty of Engineering)
- Singing Cup In “ Concours de la chanson Francaise, Lycee Francais Maadi. (The Juries were French)
- Writing and Composing songs