

CURRICULUM VITAE

Basic Information:

Name	Mahmoud Mostafa Mohamed Mostafa	
Job (Rank)	Assistant Professor	
Institution	Helwan University - Taif University	
Nationality	Egyptian	
Date of Birth	27/12/1976	
Place of Birth	Cairo	
E-mail	mahmoud.mostafa.m@gmail.com	

Scientific Qualification:

PhD

Date	November 2011
Degree	Doctor of Engineering
Country	France
Institution	Université Toulouse III - Paul Sabatier, Ecole doctorale Mathématiques, Informatique, Télécommunications de Toulouse (EDMITT)
General Topic	Telecommunications
Specific Topic	Network Security
Thesis Title	Analysis of Security and QoS in Network with Time Constraints

Master

Date	February 2004
Degree	Master of Science
Country	Egypt
Institution	Helwan University
General Topic	Information Systems
Specific Topic	Natural Language Processing
Thesis Title	The Development of A Computer-based Arabic Lexicon

Bachelor

Date	May 2000
Degree	Bachelor - Excellent with Honor
Country	Egypt
Institution	Helwan University
General Topic	Faculty of Computers & Information
Specific Topic	Information Systems

Jobs:

Title	From-To	Organization
Assistant Professor	September 2015 – Now	Taif University, Saudi Arabia
Associate Professor	August 2020 – Now	FCI, Helwan University, Egypt
Assistant Professor	December 2011 - September 2015	FCI, Helwan University, Egypt
PhD Student	October 2007 - November 2011	Institut de Recherche en Informatique de Toulouse (IRIT), France.
Assistant Lecturer	April 2004 - October 2007	FCI, Helwan University, Egypt
Demonstrator	January 2001 - April 2004	FCI, Helwan University, Egypt
Programmer	August 2000 - January 2001	EgyptInfo. company, Cairo, Egypt

Committees:

Name	Membership	From-To	Organization
Master Of Cybersecurity Program Quality Coordinator	Head	September 2023-Now	College of Computers and Information Technology, Taif University
Executive Committee for Development and Quality	Member	October 2016 –	College of Computers and Information Technology, Taif University
Curriculum Committee	Head	<i>Septembre 2017 - Septembre 2020</i>	Information Technology Department, College of Computers and Information Technology, Taif University
Equivalences Committee (IT)	IT Dep. Representative	January 2018 – Now	College of Computers and Information Technology, Taif University
Curriculum Committee	Member	<i>Septembre 2021 - Now</i>	Information Technology Department, College of Computers and Information Technology, Taif University
Evaluation Committee (IT)	Head	<i>January 2016 – Septembre 2016</i>	Information Technology Department, College of Computers and Information Technology ,Taif University

University Training Project,	Project Manager	<i>Septembre 2014- Septembre 2015</i>	Helwan University
University Management Information System,	Deputy Project Manager	<i>Septembre 2013- Septembre 2014</i>	Helwan University
Joint MSc in Software Engineering JMSE TEMPUS Project funded with support from the European Commission Contract no.: 530637-TEMPUS-1-2012-1-PS-TEMPUS-JPCR	Project Manager	<i>Septembre 2014- Septembre 2015</i>	Helwan University & TEMPUS
Joint MSc in Software Engineering JMSE TEMPUS Project funded with support from the European Commission Contract no.: 530637-TEMPUS-1-2012-1-PS-TEMPUS-JPCR	Member	<i>January 2012- Septembre 2015</i>	Helwan University & TEMPUS
Information Security InfoSec Lab	Coordinator	<i>April 2012 - Septembre 2015</i>	Faculty of Computers & Information, Helwan University
ICDL Center	Manager	<i>February 2012 – Septembre 2013</i>	Faculty of Computers & Information, Helwan University
First level exams control	Head	<i>September 2012 - September 2015</i>	Faculty of Computers & Information, Helwan University
Organizing committee of Fourth International Conference on Risks and Security of Internet and Systems CRiSIS 2009	Organizing committee Co-Chair	<i>May 2009 – October 2009</i>	Fourth International Conference on Risks and Security of Internet and Systems CRiSIS 2009 held in Toulouse, France, October 19-22, 2009.

Awards:

Occasion	Date	Organization
Best Software Engineering Project in IEEE Egyptian Engineering Day (EED) 2015	September 2015	IEEE – Egypt Section
Best conference paper award	October 2008	The 3 rd International Conference on Risks and Security of Internet and Systems (CRiSIS) 2008, Tozeur, Tunisia.
Microsoft Certified Solutions Developer (MCSD) Program Grant	November 2001	Future Generation Foundation, Egypt

Training:

Program	Date	Organization
Cloud Infrastructure and Services	14 -19 June 2014	EMC ² Company, Egypt
Strategic Planning	10-12 March 2012	Faculty and Leadership Development Center (FLDC) ,Helwan University, Egypt
Credit Hours Systems	3-5 March 2012	Faculty and Leadership Development Center (FLDC) ,Helwan University, Egypt
Scientific Publications	18-20 February 2012	Faculty and Leadership Development Center (FLDC) ,Helwan University, Egypt
Quality Standards in the Educational Process	4-6 February 2012	Faculty and Leadership Development Center (FLDC) ,Helwan University, Egypt
Research Team Management	21-23 January 2012	Faculty and Leadership Development Center (FLDC) ,Helwan University, Egypt
The use of technology in teaching	4-6 January 2012	Faculty and Leadership Development Center (FLDC) ,Helwan University, Egypt
Zotero and Bibliography Reference Management <i>Zotero et la Gestion des Références Bibliographiques</i>	13 January 2010	URFIST de Toulouse, Toulouse, France
Seeking information in the Internet <i>Recherche d'Information Veille Internet</i>	7 January 2010	URFIST de Toulouse, Toulouse, France
9th International School on Foundations of Security Analysis and Design (<i>FOSAD</i>) http://www.sti.uniurb.it/events/fosad09	30 August - 4 September 2009	University Residential Center of Bertinoro, Italy
Team management <i>Management d'équipe</i>	14 - 15 April 2009	Société Progress, Basso Cambo, Toulouse, France
Contracts and labor law <i>Contrats et droit du travail</i>	18 February 2009	Université Paul Sabatier, Toulouse, France
Project management <i>La gestion de projet.</i>	21 May 2008.	Université Paul Sabatier, Toulouse, France
Communication - Speaking in Public <i>Communication – Prise de Parole en Public</i>	10 - 11 March 2008	Société Progress , Basso Cambo, Toulouse, France
Leadership Development	13-18 May 2006	Leadership Development Center, Helwan, Egypt
French as a Foreign Language <i>Cours du Francais Langue Etrangere</i>	27 April 2006 - 31 August 2006	Centernc Fracais de Culture et de Cooperation, Cairo Egypt.
Microsoft Certified Solutions Developer (MCSD)	January 2002 - June 2002	Raya Academy (Grant from Future Generation foundation, Egypt)

Research Projects:

Title	Date	Total Fund	Organization
Smart Pocket Money GP2015.R10.72	January 2015	4180 EGP	Information Technology Industry Development Agency (ITEDA), Egypt
PhD in Information Security	October 2007 – November 2011	Salary for four years to get the PhD (1,000,000 EGP)	Helwan University, Egypt
Development of Serious Games for Teaching Information Security Courses Project No 5628-438-1	September 2018	27,000 SAR	Taif University, KSA

List of publications

Thesis

1. Mahmoud Mostafa, Analysis of Security and QoS in Network with Time Constraints, Doctoral thesis, Toulouse University, France, 2011
<http://ethesis.inp-toulouse.fr/archive/00001744/01/MOSTAFA.pdf>

2. Mahmoud Mostafa, The Development of A Computer-based Arabic Lexicon, Master thesis, Helwan University, Egypt, 2004.
https://www.researchgate.net/publication/337428222_The_Development_of_A_Computer-based_Arabic_Lexicon

Conference Papers.

1. Mahmoud Mostafa, Anas Abou El Kalam, Dragos Minuta, Christian Fraboul. QoS-aware Firewall *Session Table* (*regular paper*). In: *International Conference on Risks and Security of Internet and Systems (CRiSIS 2011), Timișoara, Romania, 26/09/2011-28/09/2011*.
<http://ieeexplore.ieee.org/document/6061834/>

2. Mahmoud Mostafa, Anas Abou El Kalam, Abdeljebar Ameziane El Hassani, Christian Fraboul. *An Integrated Session Table for Security and QoS* (*regular paper*). In : *Joint Conference on Security in Network Architectures and Security of Information Systems (SAR/SSI 2011), La Rochelle, France, 18/05/2011-21/05/2011*.
<http://ieeexplore.ieee.org/document/5931392/>

3. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. *An Architecture for QoS-capable Integrated Security Gateway to Protect Avionic Data Networks* (regular paper). In: *International Conference on Embedded Real Time Software and Systems (ERTS2 2010)*, Toulouse/France, 19/05/2010-21/05/2010.
http://web1.see.asso.fr/erts2010/Site/0ANDGY78/Fichier/PAPIERS ERTS 2010 2/ERTS2010_0108_final.pdf
4. Mahmoud Mostafa, Anas Abou El Kalam, Mohamed Maachaoui, Christian Fraboul. *Un nouveau protocole pour la Sécurité et la QoS dans les Réseaux* (regular paper). In: *Joint Conference on Security in Network Architectures and Security of Information Systems (SAR/SSI 2010)*, Rocquebrune Cap-Martin, 18/05/2010-21/05/2010.
5. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. *Q-ESP: a QoS-compliant Security Protocol to enrich IPSec Framework* (regular paper). In: *IFIP International Conference on New Technologies, Mobility and Security (NTMS 2009)*, Cairo, Egypt, 20/12/2009-23/12/2009.
<http://ieeexplore.ieee.org/document/5384762/>
6. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. *Extending Firewall Session Table to Accelerate NAT, QoS Classification and Routing* (regular paper). In: *International Conference on Computer Theory and Applications (ICCTA 2009)*, Alexandria, Egypt, 17/10/2009-19/10/2009. <https://arxiv.org/pdf/0911.4033>
7. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. *A New QoS Controllable Security Protocol (WIP) (student paper)*. In : *IEEE Annual Computer Security Applications Conference*, Anaheim, 08/12/2008-12/12/2008.
https://www.acsac.org/2008/program/wip/A_New_QoS_Controllable_Security_Protocol.pdf
8. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. *EESP: A Security Protocol that Supports QoS Management* (regular paper). In: *International Conference on Risks and Security of Internet and Systems (CRiSIS 2008)*, Tunisia, 28/10/2008-31/10/2008.
<http://ieeexplore.ieee.org/document/4757476/>
9. A. Sharaf Eldin, Mahmoud Mostafa “Design Issues for the Arabic Lexicon”, Proceedings of the 9th International Conference on Artificial Intelligence Applications, Cairo, Egypt, 7-10 Feb., 2001, pp. 59-66.

Journal Papers

1. Mahmoud Mostafa, "Bitcoin's Blockchain Peer-to-Peer Network Security Attacks and Countermeasures", in Indian Journal of Science and Technology. Vol. 13, Issue 7. 2020. <https://indjst.org/articles/bitcoins-blockchain-peer-to-peer-network-security-attacks-and-countermeasures>
2. Mahmoud Mostafa, "Compu Castel: an Instructional Tool for Teaching Firewall Concepts", International Journal of Computer and Information Technology (IJCIT) Vol. 9, Issue 1. January 2020. <https://www.ijcit.com/index.php/ijcit/article/view/2>
3. Ahmed Baiomy, Mahmoud Mostafa, Alyaa Youssif, "Anti-Phishing Game Framework to Educate Arabic Users: Avoidance of URLs Phishing Attacks", Indian Journal of Science and Technology, Vol 12 Issue 44. November 2019. <http://www.indjst.org/index.php/indjst/article/view/147850>
4. Mahmoud Mostafa Osama S. Faragallah, "Development of Serious Games for Teaching Information Security Courses", IEEE Access, vol. 7, pp. 169293-169305. November 2019. <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8911357>
5. Eman Osman, Mahmoud Mostafa, Sayed Abdel-Gaber, "Flexible Malicious Accounts Detector (FMAD) for Mining Twitter Social Network using Features and Accounts Frequent Pattern", International Journal of Computer Applications, Vol. 178, No. 52, September 2019. <https://www.ijcaonline.org/archives/volume178/number52/osman-2019-ijca-919369.pdf>
6. Mohamed Ellisy, Mahmoud Mostafa, Mahmoud El-Khouly. Multi-Dimension Authentication for Web Service. In: (JIS) Journal of Information Society, Vol.1, No.1, 2015. http://www.journalsociety.net/JIS/user_view_article.php?article_id=6
7. Ahmed Sharaf Eldin, Mahmoud Mostafa, Rola Hussien Fahmy. Evaluation of Health Level Seven (HL7) Standards Implementation in Egypt Hospitals. In: British Journal of Applied Science & Technology (BJAST), Vol. 11, No.6, 2015. <http://www.sciedomain.org/download/MTEzNDVAQHBm.pdf>
8. Bishoy Moussa, Mahmoud Mostafa, Mahmoud El-Khouly. XML Schema-based Minification for Communication of Security Information and Event Management (SIEM) Systems in Cloud Environments. In: International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 5, No. 9, 2014. <http://thesai.org/Publications/ViewPaper?Volume=5&Issue=9&Code=ijacsa&SerialNo=12>

9. Mahmoud Mostafa, Anas Abou El Kalam, Mohamed Maachaoui, Noureddine Idboufker. Specification, implementation and performance evaluation of the QoS-friendly encapsulating security payload (Q-ESP) protocol. In : Security and Communication Networks, Wiley, Vol. DOI: 10.1002/sec.268, December 2010.
<http://onlinelibrary.wiley.com/doi/10.1002/sec.268/abstract>

10. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. A new protocol for security and QoS in IP networks. In: International Journal of Information and Computer Security, Inderscience Publishers, Vol. 3 N. 3-4, p. 245-264, 2009.
<http://dl.acm.org/citation.cfm?id=1708033>

Other publications

1. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. *QoS-friendly Encapsulating Security Payload (Q-ESP) IETF DRAFT*. Décembre 2009.
Available at : <http://tools.ietf.org/html/draft-mostafa-qesp-00> -
<https://datatracker.ietf.org/doc/draft-mostafa-qesp/>

	محمود مصطفى محمد مصطفى	الاسم
	Mahmoud Mostafa Mohamed Mostafa	Name
	MAHMOUD MOSTAFA	الاسم المستخدم في النشر العلمي
	أستاذ مساعد- كلية الحاسوبات	الوظيفة الحالية وجهة العمل
	Ph.D. Université Toulouse III - Paul Sabatier, Ecole doctorale Mathématiques, Informatique, Télécommunications de Toulouse (EDMITT). France	الدرجة العلمية (اسم الجامعة والدولة)
	Telecommunications	التخصص العام
	Network Security	التخصص الدقيق
	mahmoud.mostafa.m@gmail.com	البريد الإلكتروني
	Doctor of Engineering November 2011 Master of Science February 2004 Bachelor in information systems May 2000	المؤهلات العلمية
	Mahmoud Mostafa received the B.Sc. (Hons.), and M.Sc. degrees in Information Systems from Helwan University, Helwan, Egypt, in 2000, 2004, respectively and Ph.D. degree in Networking, Telecommunications, Systems and Architecture from Toulouse III University - Paul Sabatier, Ecole doctorale Mathématiques, Informatique, Télécommunications de Toulouse (EDMITT), Toulouse, France, 2011. He is currently an Associate Professor with the department of Information Systems, Faculty of Computers and Information, Helwan University, where he was a Demonstrator from 2001 to 2004 and has been Assistant Lecturer from 2004 to 2007. From 2007 to 2011 he was Ph.D. student and research assistant at Toulouse Institute of Computer Science Research (IRIT) and since 2012 he has been a Teaching Staff Member with the Department of Information Systems Faculty of Computers and Information, Helwan University. Since 2015 till now , he works	السيرة الذاتية

	<p>as an assistant professor at Information Technology Department, College of Computers and Information Technology, Taif University, KSA.</p> <p>He is a coauthor of many papers in international journals, and conference proceedings. His current research interests include networks security, information security, cyber security, systems security, blockchain security and educational games.</p>	
	<p>Thesis</p> <ol style="list-style-type: none"> 1. Mahmoud Mostafa, Analysis of Security and QoS in Network with Time Constraints, Doctoral thesis, Toulouse University, France, 2011 http://ethesis.inp-toulouse.fr/archive/00001744/01/MOSTAFA.pdf 2. Mahmoud Mostafa, The Development of A Computer-based Arabic Lexicon, Master thesis, Helwan University, Egypt, 2004. https://www.researchgate.net/publication/337428222_The_Development_of_A_Computer-based_Arabic_Lexicon <p>Conference Papers.</p> <ol style="list-style-type: none"> 1. Mahmoud Mostafa, Anas Abou El Kalam, Dragos Minuta, Christian Fraboul. QoS-aware Firewall <i>Session Table (regular paper)</i>. In: <i>International Conference on Risks and Security of Internet and Systems (CRiSIS 2011), Timișoara, Romania</i>, 26/09/2011-28/09/2011. http://ieeexplore.ieee.org/document/6061834/ 2. Mahmoud Mostafa, Anas Abou El Kalam, Abdeljebar Ameziane El Hassani, Christian Fraboul. <i>An Integrated Session Table for Security and QoS (regular paper)</i>. In : <i>Joint Conference on Security in Network Architectures and Security of Information Systems (SAR/SSI 2011), La Rochelle, France</i>, 18/05/2011-21/05/2011. 	<p>الأبحاث المنشورة</p>

<http://ieeexplore.ieee.org/document/5931392/>

3. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. *An Architecture for QoS-capable Integrated Security Gateway to Protect Avionic Data Networks (regular paper)*. In: *International Conference on Embedded Real Time Software and Systems (ERTS2 2010), Toulouse/France, 19/05/2010-21/05/2010.*
[http://web1.see.asso.fr/erts2010/Site/0ANDGY78/
Fichier/PAPIERS ERTS 2010
2/ERTS2010_0108_final.pdf](http://web1.see.asso.fr/erts2010/Site/0ANDGY78/Fichier/PAPIERS ERTS 2010 2/ERTS2010_0108_final.pdf)
4. Mahmoud Mostafa, Anas Abou El Kalam, Mohamed Maachaoui, Christian Fraboul. *Un nouveau protocole pour la Sécurité et la QoS dans les Réseaux (regular paper)*. In: *Joint Conference on Security in Network Architectures and Security of Information Systems (SAR/SSI 2010), Rocquebrune Cap-Martin, 18/05/2010-21/05/2010.*
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<http://ieeexplore.ieee.org/document/5384762/>
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<https://arxiv.org/pdf/0911.4033>
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	<p><i>Security Applications Conference, Anaheim, 08/12/2008-12/12/2008.</i> <u>https://www.acsac.org/2008/program/wip/A_New_QoS_Controlable_Security_Protocol.pdf</u></p> <p>8. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. <i>EESP: A Security Protocol that Supports QoS Management (regular paper)</i>. In: <i>International Conference on Risks and Security of Internet and Systems (CRISIS 2008), Tunisia, 28/10/2008-31/10/2008.</i> <u>http://ieeexplore.ieee.org/document/4757476/</u></p> <p>9. A. Sharaf Eldin, Mahmoud Mostafa "Design Issues for the Arabic Lexicon", Proceedings of the 9th International Conference on Artificial Intelligence Applications, Cairo, Egypt, 7-10 Feb., 2001, pp. 59-66.</p>	
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	<p>http://www.indjst.org/index.php/indjst/article/view/147850</p> <p>4. Mahmoud Mostafa Osama S. Faragallah, "Development of Serious Games for Teaching Information Security Courses", IEEE Access, vol. 7, pp. 169293-169305. November 2019. https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8911357</p> <p>5. Eman Osman, Mahmoud Mostafa, Sayed Abdel-Gaber, "Flexible Malicious Accounts Detector (FMAD) for Mining Twitter Social Network using Features and Accounts Frequent Pattern", International Journal of Computer Applications, Vol. 178, No. 52, September 2019. https://www.ijcaonline.org/archives/volume178/number52/osman-2019-ijca-919369.pdf</p> <p>6. Mohamed Ellisy, Mahmoud Mostafa, Mahmoud El-Khouly. Multi-Dimension Authentication for Web Service. In: (JIS) Journal of Information Society, Vol.1, No.1, 2015. http://www.journalsociety.net/JIS/user_view_article.php?article_id=6</p> <p>7. Ahmed Sharaf Eldin, Mahmoud Mostafa, Rola Hussien Fahmy. Evaluation of Health Level Seven (HL7) Standards Implementation in Egypt Hospitals. In: British Journal of Applied Science & Technology (BJAST), Vol. 11, No.6, 2015. http://www.sciedomain.org/download/MTEzNDVAQHBm.pdf</p> <p>8. Bishoy Moussa, Mahmoud Mostafa, Mahmoud El-Khouly. XML Schema-based Minification for Communication of Security Information and Event Management (SIEM) Systems in Cloud Environments. In: International Journal of Advanced Computer Science and Applications</p>	
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	<p>(IJACSA), Vol. 5, No. 9, 2014. http://thesai.org/Publications/ViewPaper?Volume=5&Issue=9&Code=ijacsa&SerialNo=12</p> <p>9. Mahmoud Mostafa, Anas Abou El Kalam, Mohamed Maachaoui, Noureddine Idboufker. Specification, implementation and performance evaluation of the QoS-friendly encapsulating security payload (Q-ESP) protocol. In : Security and Communication Networks, Wiley, Vol. DOI: 10.1002/sec.268, December 2010. http://onlinelibrary.wiley.com/doi/10.1002/sec.268/abstract</p> <p>10. Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. A new protocol for security and QoS in IP networks. In: International Journal of Information and Computer Security, Inderscience Publishers, Vol. 3 N. 3-4, p. 245-264, 2009. http://dl.acm.org/citation.cfm?id=1708033</p> <p>Other publications</p> <p>Mahmoud Mostafa, Anas Abou El Kalam, Christian Fraboul. <i>QoS-friendly Encapsulating Security Payload (Q-ESP)</i> IETF DRAFT. Décembre 2009. Available at : http://tools.ietf.org/html/draft-mostafa-qesp-00 - https://datatracker.ietf.org/doc/draft-mostafa-qesp/</p>	
	<p>Best Software Engineering Project in IEEE Egyptian Engineering Day (EED) September 2015.</p> <p>Best conference paper award. The 3rd International Conference on Risks and Security of Internet and Systems (CRISIS) 2008, Tozeur, Tunisia.</p> <p>Microsoft Certified Solutions Developer (MCSD) Program Grant November 2001, Future Generation Foundation, Egypt</p>	الجوائز