

## Ahmed E. Youssef, Ph.D.

College of Computer & Information Sciences (CCIS)

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### Education

- **Ph.D.** Computer Science & Engineering, University of Connecticut, USA, 2006.
- **M.Sc.** Computer Science & Engineering, University of Connecticut, USA.
- **M.Sc.** Electronics & Electrical Communications Engineering, Helwan University
- **B.Sc.** Electronics & Electrical Communications Engineering, Helwan University

### Employment History

- Associate Professor, CCIS, King Saud University (KSU), KSA, 2016 – till present
- Assistant Professor, CCIS, King Saud University (KSU), KSA, 2010 - 2016
- Assistant Professor, Faculty of Engineering, Helwan University (HU), Egypt, 2007 - 2010
- TA/RA, University of Connecticut (UConn), USA, 2000-2006
- TA, Helwan University (HU), Egypt, 1991-1999

### Research Interest

Cloud Computing, Mobile and Pervasive Computing, Green Computing, Internet of Things, Big Data Analytics.

### Teaching Experience

Institute	Courses
King Saud University (KSU)	<ul style="list-style-type: none"><li>- Fundamentals &amp; and Ethics of Information Systems (IS 201)</li><li>- IS Projects Management (IS 351)</li><li>- Data Transmission and Computer Networks (IS 370)</li><li>- E-health (IS 472)</li><li>- Capstone Projects (IS 498, IS 499)</li><li>- Software Project Management and Quality Assurance (IS 540)</li><li>- Enterprise Applications Development (IS 522)</li><li>- Enterprise Content Management (IS 554)</li><li>- Research Seminar (IS 598)</li><li>- Master Project (IS 599)</li><li>- E-Business Strategies (CIS 628)</li><li>- IT Project Management (IS 602)</li><li>- Web Content Management (IS 621)</li></ul>
British University in Egypt ( <a href="#">BUE</a> )	<ul style="list-style-type: none"><li>- Artificial Intelligence</li></ul>
Misr International University ( <a href="#">MIU</a> )	<ul style="list-style-type: none"><li>-Advanced Operating Systems</li></ul>
Canadian International College ( <a href="#">CIC</a> )	<ul style="list-style-type: none"><li>- Operating Systems</li><li>- Electronics Design Tools</li></ul>

Helwan University ( <a href="#">HU</a> )	<ul style="list-style-type: none"> <li>- Computer Architecture &amp; Organization</li> <li>- Digital Logic Design</li> <li>- Microprocessors</li> <li>- Microelectronics, Integrated Circuits (ICs), IC labs</li> <li>- Artificial Intelligence</li> <li>- Programming with Java</li> <li>- Operating Systems</li> <li>- Real-time Systems</li> <li>- Software Engineering</li> </ul>
Misr University for Science & Technology ( <a href="#">MUST</a> )	<ul style="list-style-type: none"> <li>- Computer Organization &amp; Architecture</li> <li>- Computer Interface</li> <li>- Programming with C++</li> </ul>
Modern Sciences & Art University ( <a href="#">MSA</a> )	<ul style="list-style-type: none"> <li>- Real-time Systems</li> <li>- Digital Systems Interface</li> </ul>
<a href="#">Oct. 6<sup>th</sup>, University</a>	<ul style="list-style-type: none"> <li>- Expert Systems</li> <li>- Real-time Systems</li> </ul>
Obour Institute of Eng. &Tech.	<ul style="list-style-type: none"> <li>- Operating Systems</li> <li>- Object Oriented Programming</li> </ul>
High Institute of Engineering, 6th October	<ul style="list-style-type: none"> <li>- Data Structure &amp; Algorithms</li> <li>- Graph Theory</li> <li>- Data Processing &amp; Management</li> </ul>
University of Connecticut (UConn), USA	<ul style="list-style-type: none"> <li>- Programming with C++</li> <li>- Queuing theory</li> <li>- Digital Logic Design Lab</li> </ul>
Eastern Connecticut State University, (ECSU), USA	<ul style="list-style-type: none"> <li>- Digital Logic Design Lab</li> </ul>

### **Professional Activities**

- Serving in the following Committees: Accreditation (ABET, NCAAA), IS dept. Annual Report, TA affairs. Manpower, KSU Strategic plan, Graduation Projects, MSc program, Student advising.
- Participating in e-course training session, CCIS, KSU, 2014.
- Participating in The 1<sup>st</sup> annual forum for university teaching, KSU, 11-12 Sep, 2011
- Participating in The Preparatory Week for University Teaching, KSU, 19-21 Sep, 2010
- Participating in training session “Teaching with Active Learning”, KSU, Sep, 2010
- Participating in training session “Assessing Student Learning”, KSU, Sep, 2010
- Participating in training session “Improving Students Learning and Motivations”, KSU, Sep 2010
- Participating in training session “Effective Classroom Management”, KSU, April 2010

### **Funded Research**

1. “***A Novel Multi-primary Approach Based on Static Ownership Protocol for Primary Backup Replication***”, Sponsored by Research Center of College of Computer and Information Sciences (CRC) at King Saud University, Grant Number **RC120917**, 2012.
2. “***Energy-aware Leadership Transfer Protocol for MANETs***”, Sponsored by Research Center of College of Computer and Information Sciences (CRC) at King Saud University, Grant Number **RC130393**, 2013.
3. “***Design and implementation of intrusion detection system for smart phones against SMS-based attacks***”, Sponsored by Research Center of College of Computer and Information Sciences (CRC) at King Saud University, Grant Number **RC1303108**, 2013.

## Publications

### *Papers in refereed journals:*

1. Abdelouahid Derhab, Kashif Saleem, **Ahmed Youssef**, and Mohamed Guerroumi, "Preventive Policy Enforcement with Minimum User Intervention Against SMS Malware in Android Devices" **Arabian Journal of Science & Engineering (AJSE)**, Springer, 41(2), 479-493, Feb, 2016. **(ISI Indexed, SCI)**
2. Almetwally M. Mostafa and **Ahmed E. Youssef**, "PRP: A Primary Replacement Protocol Based on Early Discovery of Battery Power Failure in MANETs", **Multimedia Tools and Applications**, vol. 74, no. 16, pp. 6243–6254, Springer, Aug. 2015. **(ISI Indexed, SCI)**
3. Ahmad A. Al-Daraiseh; Mohammed Morsi; **Ahmed Youssef**, "Feasibility Verification and Performance Evaluation of Exclusion-Based VANETs (EBV)". **The journal of KING ABDULAZIZ UNIVERSITY**, Computing and Information Technology, Volume 3, No.1, 2015.
4. Almetwally Mostafa, **Ahmed Youssef** and Gamal Alshorbagy, "A Framework for a Smart Social Blood Donation System Based on Mobile Cloud Computing", **Health Informatics-An International Journal (HIJ)**, Vol.3, No.4, pp. 1-10, November 2014.
5. Almetwally Mostafa and **Ahmed Youssef**, "Improving Resource Utilization, Scalability, and Availability in Replication Systems Using Object Ownership", **Arabian Journal of Science & Engineering (AJSE)**, Springer, vol. 39, no. 12, pp. 8731-8741, 2014. **(ISI Indexed, SCI)**
6. **Ahmed E. Youssef**, "A Framework for Secure Healthcare Systems Based on Big Data Analytics in Mobile Cloud Computing Environments", **International Journal of Ambient Systems and Applications (IJASA)**, vol.2, no.2, pp. 1-11, June, 2014.
7. Abdulelah Almishal and **Ahmed E. Youssef**, "Cloud Service Providers: A Comparative Study", **International Journal of Computer Applications and Information Technology (IJCAIT)**, vol. 5, no. 2, pp. 46-52, May, 2014.
8. **Ahmed E. Youssef**, "Towards Pervasive Computing Environments With Cloud Services", **International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC)**, Vol.4, No.3, pp.1-9, June, 2013
9. Ahmed A. Al-Johani and **Ahmed E. Youssef**, "A Framework for ERP Systems in SME Based on Cloud Computing Technology", **International Journal on Cloud Computing: Services and Architecture (IJCCSA)** ,Vol.3, No.3, pp. 1-14, June 2013
10. Almetwally M. Mostafa and **Ahmed E. Youssef**, "A Primary Shift Protocol For Improving Availability in Replication Systems", **International Journal of Computer Applications (IJCA)**, Vol. 72, No. 4, pp 37-44, June 2013.
11. Abeer Hamdy, Reda Ammar, and **Ahmed E. Youssef**, "Efficient Scheduling of Real-Time Parallel Applications on Clusters" **International Journal of Computer Science & Information Technology (IJCSIT)**, Vol. 4, No. 5, pp. 197-212, October 2012.

12. **Ahmed E. Youssef**, Abeer Hamdy, and Reda Ammar, "Efficient Processing Power Reservation Approach to Improve Real-Time Task Schedulability and Reliability" **International Journal of Computer Science Issues (IJCSI)**, Vol. 9, Issue 5, No 2, pp. 196-205, Sept. 2012
13. Abeer Hamdy, **Ahmed E. Youssef**, and Reda Ammar, "Real-Time Workload Allocation on a Uni-processor", **International Journal of Computer Applications (IJCA)**, Vol. 53– No.12, pp.17-24, Sept. 2012.
14. **Ahmed E. Youssef**, "Exploring Cloud Computing Services and Applications", **Journal of Emerging Trends in Computing and Information Sciences**, Vol. 3, No. 6, pp. 838-847, July 2012.
15. **Ahmed E. Youssef** and Manal Alageel, "A Framework for Secure Cloud Computing", **International Journal of Computer Science Issues (IJCSI)**, Vol. 9, Issue 4, No 3, pp. 478-500, July 2012.
16. Ahmed Emam and **Ahmed Youssef** "Do Females Read Faster Than Males? An Empirical Study Using Eye Tracking System", **International Journal of computer Science Issues (IJCSI)**, Volume 9, Issue 3, pp.232-240, May 2012.
17. Abdulaah Alshwaier, **Ahmed Youssef** and Ahmed Emam "A New Trend for E-Learning in KSA Using Educational Cloud", **Advanced Computing: An International Journal (ACIJ)**, Vol.3, No.1, pp.81-97, Jan. 2012.
18. **Ahmed Youssef** and Ahmed Emam, "Network Intrusion Detection Using Data Mining Techniques and Network Behavior Analysis", **International Journal of Computer Science & Information Technology (IJCSIT)**, Vol 3, No 6, pp. 87-98, Dec. 2011.
19. Medhat Awadallah and **Ahmed Youssef**, "Scalable Symmetric Key Cryptography using Asynchronous Data Exchange in Enterprise Grid" **International Journal of Computer Science Issues (IJCSI)**, Vol. 8, Issue 6, No 3, pp. 107-115, Nov. 2011.
20. **Ahmed Youssef** and Manal Alageel "Security Issues in Cloud Computing" **GSTF International Journal on Computing**, Vol.1, No. 3, pp. 7-12, Aug. 2011.
21. Reda Ammar, Abeer Hamdy and **Ahmed Hussein**, "Efficient Execution of Real-Time Tasks on a Single Processor", **International Journal of Intelligent Computing and Information Sciences (IJICIS)**, Vol.9, No.2, pp. 31-40, July 2009.

**Papers in Conferences Proceedings:**

22. Abdelouahid Derhab, Kashif Saleem and **Ahmed E. Youssef**, "Third Line of Defense Strategy to Fight against SMS-based Malware in Android Smartphones", **The International Wireless Communications and Mobile Computing Conference (IWCMC 2014)**, Nicosia, Cyprus, Aug, 2014.
23. Almetwally M. Mostafa and **Ahmed E. Youssef**, "A Multi-Primary Ownership Partitioning Protocol For Highly Scalable and Available Replication Services", **The Second Saudi International Electronics, Communications and Photonics Conference, SIEPC '13**, Riyadh, 27 - 30 April, 2013.

24. Almetwally M. Mostafa and Ahmed E. Youssef, "Leader Replacement Protocol Based on Early Discovery of Battery Power Failure in MANETs", **International Conference on IT Convergence and Security (ICITCS)**, Macua, China, 16-18 Dec, 2013.
25. Mohammed Alnuem, Samir EL-Masri, **Ahmed Youssef**, and Ahmed Emam "Towards Integrating National Electronic Care Records in Saudi Arabia", **12th Int'l. Conference on Bioinformatics and Computational Biology BIOCAMP'11**, LV, USA, July 18-21, 2011.
26. Ahmed Emam, **Ahmed Youssef**, Samir EL-Masri, and Mohammed Alnuem "Towards Universal Patient Identifiers in KSA", **10th Int'l Conference on Information and Knowledge Engineering IKE'11**, LV, USA, July 18-21, 2011.
27. Hamdy A. Morsy, Joshua Gluckman, **Ahmed Hussein**, Fathy Z. Amer "Block Based Steganography", **In Proceeding of 9th European Conference on Information Warfare and Security (ECIW)**, Thessaloniki, Greece, 1-2 July 2010. (ISI indexed)
28. Hamdy A. Morsy, **Ahmed Hussein**, Joshua Gluckman, Fathy Z. Amer "Hiding Appropriate Messages in the LSB of JPEG images", **In Proceeding of 5th International Conference on Information Warfare and Security (ICIW)**, The Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA, 8-9 April 2010.
29. Nora Naguib, **Ahmed Hussein**, Hisham Kishk, and Mohamed Eladawy, "Using PFA in Feature Analysis and Selection for H.264 Adaptation", **Paris 2009 International Conference on Image and Vision Computing (ICIVC 2009)**, June 2009.
30. Nora Naguib, **Ahmed Hussein**, Hisham Kishk, and Mohamed Eladawy, "Contrast Error Distribution Measurement for Full Reference Image Quality Assessment", **18th International Conference on Computer Theory and Applications (ICCTA)**, Alex, Egypt, Oct 2008.
31. Reda Ammar, S. Rajasekaran **Ahmed Hussein**, and Abeer Hamdy, "Efficient Real-Time Task Scheduling on Cluster Platforms with Network Limitations", **IEEE International Symposium on Computers and Communications (ISCC)**, Aveiro, Portugal, July 2007.
32. Abeer Hamdy, Reda Ammar, and **Ahmed Hussein**, "Efficient Workload Allocation to Schedule Fork-Join Real-Time Task Graphs on Cluster Computing Platforms", **2nd International Computer Engineering Conference, ICENCO'2006**, Cairo, Egypt, Dec. 2006.
33. **Ahmed Hussein**, Reda Ammar, and Abeer Hamdy, "Efficient Workload Allocation to Schedule Tandem Real-Time Task Graphs in a Cluster Computing Environment", **International Society of Computers and their Applications (ISCA), 19th International Conference on Parallel and Distributed Computing Systems (PDCS)**, San Francisco, California, USA, Sep. 2006.
34. Reda Ammar, **Ahmed Hussein**, and Abeer Hamdy, "Efficient Execution of Real-Time Tasks on a Single Processor", **IEEE International Symposium on Signal Processing and Information Technology (ISSPIT)**, Vancouver, Canada, Aug. 2006.

35. Abeer Hamdy, **Ahmed Hussein**, and Reda Ammar, "An efficient workload allocation to improve scheduling real-time tasks", **IEEE International Symposium on Computers and Communications (ISCC)**, Pula-Cagliari, Sardinia, Italy, June 2006.
36. **Ahmed Hussein**, Reda Ammar, and Abeer Hamdy, "Efficient Processing Power Utilization to Execute Real-Time Tasks", **IEEE International Symposium on Signal Processing and Information Technology (ISSPIT)**, Athens, Greece, Dec. 2005.