

Moustafa Youssef's CV

Egypt-Japan University of Science and Technology (E-JUST)

CONTACT INFORMATION	Department of Computer Science and Engineering Egypt-Japan Univ. of Sc. and Tech. (E-JUST), Alexandria Egypt	Voice: +20(106)-417-0777 E-mail: moustafa.youssef@ejust.edu.eg WWW: wrc-ejust.org
RESEARCH INTERESTS	Mobile and wireless networks, mobile and pervasive computing, location determination systems, sensor networks, energy efficient protocols, and computer security.	
EDUCATION	Ph.D., Computer Science University of Maryland, College Park - <i>Horus</i> : An RF-Based Location Determination System	(May 2004) (Invention of the year award)
	M.Sc., Computer Science University of Maryland, College Park	(May 2002)
	M.Sc., Computer Science Alexandria University, Egypt - Structure and Performance Evaluation of Banyan Network Based ATM Switches	(1999)
	B.Sc., Computer Science and Automatic Control Alexandria University, Egypt	(June 1997) (Ranked First on Faculty of Engineering)
	General Secondary School Certificate Egypt	(July 1992) (Ranked Third Nationwide)
WORK EXPERIENCE	Egypt-Japan University of Science and Technology (E-JUST), Egypt Present) Professor of CSE and Founder & Director, The Wireless Research Center of Excellence	(June 2017-)
	Egypt-Japan University of Science and Technology (E-JUST), Egypt Associate Professor	(January 2013- May 2017)
	Egypt-Japan University of Science and Technology (E-JUST), Egypt Assistant Professor	(Fall 2010- 2012)
	Google Inc., Mountain View, USA Visiting Scholar	(May 2016- December 2016)
	National Institute of Informatics (NII), Japan Visiting Professor	(April 2015- Present)
	Nile University, Egypt Assistant Professor	(Spring 2008- Summer 2010)
	Alexandria University, Egypt	(January 2013- Present)

Associate Professor

Alexandria University, Egypt
Assistant Professor

(Fall 2007- 2012)

RESEARCH GRANTS

- HyRise: Robust and Accurate Multi-Sensor Fusion-based Floorplan Estimation - Moustafa Youssef (PI) Google Research Award, 2017.
- EEE122: The Egyptian Enhanced Emergency Public Safety Service - Moustafa Youssef (PI), NTRA, 2017.
- CURL: Collaborative Multi-Floor Ubiquitous RF-based Indoor Localization - Moustafa Youssef (PI) Google Research Award, 2015.
- Navirize: A Calibration-free Accurate Indoor Positioning System for Realistic Environments - Moustafa Youssef (PI) ITIDA, 2015.
- Cognitive Radio Cloud (CRC): Enabling a Collaborative Environment for Cognitive Radio Research - Moustafa Youssef (Co-PI) National Telecommunication Regulatory Authority (NTRA), 2014.
- International Scientific Cooperation Grant - Moustafa Youssef, National Institute of Informatics, Japan, 2014.
- Intel Galileo Equipment Grant - Moustafa Youssef (PI), 2014.
- Investigation of deterministic radio propagation models for device-free radio-based activity recognition - Moustafa Youssef (Consultant) German Federal Ministry of Education and Research (BMBF), 2014.
- Noise Map App: A Real Time Tool for City Noise Mapping Using Smart Phones - Moustafa Youssef (Co-PI) Research, Development and Innovation Programme (RDI-2), 2014.
- ARTS: An Accurate and Reliable Traffic Estimation System - Moustafa Youssef (PI) ITIDA, 2013.
- InGIS: Enabling Ubiquitous Indoor Geographic Information Systems - Moustafa Youssef (PI) Google Research Award, 2013.
- Untying the Gordian Knot: Practical and Distributed Optimal Scheduling to Support Multimedia Traffic over Wireless Networks - Moustafa Youssef PI, US-Egypt Joint Research Grants.
- International Scientific Cooperation Grant - Moustafa Youssef, National Institute of Informatics, Japan.
- Development of a cost effective crop monitoring with accurate control for intelligent irrigation systems - Moustafa Youssef (Co-PI) ITIDA, 2012.
- Windows Azure Educator Grant - Moustafa Youssef (PI), 2012.
- IPS: A Ubiquitous Indoor Positioning System - Moustafa Youssef (PI) Google Research Award, 2011.
- A Location-aided Framework for High Performance Cognitive Radio Networks - Moustafa Youssef (PI) National Telecommunication Regulatory Authority (NTRA), 2011.
- Google's 2011 EMEA AndroidEDU program- Moustafa Youssef (PI), 2011.
- Signature Facilities Initiative Equipment Grants, EJUST- Moustafa Youssef (PI), 2011.
- Microsoft Research Project Hawaii- Moustafa Youssef (PI), 2011.
- Parallel Networks Architecture (ParaNets)- Moustafa Youssef (Consultant) Carnegie Mellon University, Qatar, 2010.

- Towards Practical Information Theoretically Secure Authentication and Data Integrity for RFID- Moustafa Youssef (PI) Intel Research, USA, 2010.
- CellChek: A cost-effective cell phone-based patient monitoring and advising system - Moustafa Youssef (Co-PI) Microsoft Research Grant, 2010.
- Micro and Nanotechnology Based Wireless Sensors for Agriculture and Water Management - Moustafa Youssef (Co-PI), The Research Development and Innovation (RDI) Program, 2010.
- Locationoid: An Accurate Energy-Efficient Location Provider for the Android Platform - Moustafa Youssef (PI) Google Research Award, 2009.
- Wireless Physical Layer Security- From Theory to Practice - Moustafa Youssef PI, US-Egypt Joint Research Grants.
- Nuzzer: A Device-free Passive Localization System for Wireless Environments - Moustafa Youssef (PI) Science and Technology Development Fund (STDF), Young Investigator Award, 2008.
- Energy Efficient Wireless Sensor Networks: A Cooperative Communications Perspective - Moustafa Youssef (Consultant) - Qatar National Research Fund (QNRF), 2008-2009.
- Symbian Equipment Grant. Symbian Academy, UK, 2008.
- Providing Physical Security Using Wi-Fi. Technology Development Corporation (TEDCO) grant in collaboration with the Dingman Center for Entrepreneurship, for \$50,000, 2004.

PUBLICATIONS –
JOURNALS /
MAGAZINES

1. HeartSense: Ubiquitous Accurate Multi-Modal Fusion-based Heart Rate Estimation Using Smartphones
Reham Mohamed and Moustafa Youssef
PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), accepted for publication.
2. Accurate and Energy Efficient GPS-Less Outdoor Localization
Heba Aly, Anas Basalamah, and Moustafa Youssef
ACM Transactions on Spatial Algorithms and Systems, accepted for publication.
3. A Novel Queue-Length-Based CSMA Algorithm with Improved Delay Characteristics
Eylem Ekici, Dongyue Xue, Rania Ibrahim, and Moustafa Youssef
Elsevier Computer Networks Journal, accepted for publication.
4. Humaine: A Ubiquitous Smartphone-based User Heading Estimation for Mobile Computing Systems
Heba Aly, Nesma Mohsen, Rana Anwat, and Moustafa Youssef
Springer GeoInformatica Journal, accepted for publication.
5. Towards Ubiquitous Indoor Spatial Awareness on a Worldwide Scale
Mostafa Elhamshary and Moustafa Youssef
ACM SIGSPATIAL Newsletter, 2017 (Invited paper).
6. Automatic Rich Map Semantics Identification through Smartphone-based Crowd-sensing
Heba Aly, Anas Basalamah, and Moustafa Youssef
IEEE Transactions on Mobile Computing, 26 December 2016.
7. Accurate Real-time Map Matching for Challenging Environments
Reham Mohamed, Heba Aly, and Moustafa Youssef
IEEE Transactions on Intelligent Transportation Systems, 10 August 2016.
8. A Fine-grained Indoor Location-based Social Network
Moustafa Elhamshary, Anas Basalamah, and Moustafa Youssef
IEEE Transactions on Mobile Computing, 14 July 2016.

9. Cost-Effective Data Transfer for Mobile Healthcare
Youssef Khazbak, Mostafa Izz, Tamer ElBatt, Abdulrahman Fahim, Arsany Guirguis, Moustafa Youssef
IEEE Systems Journal, 25 March 2016.
10. SemanticSLAM: Using Environment Landmarks for Unsupervised Indoor Localization
Heba Abdelnasir, Reham Samir, Ahmed Elgohary, Moustafa Elzantot, He Wang, Souvik Sen, Romit Choudhury, and Moustafa Youssef
IEEE Transactions on Mobile Computing, 15 (7), 1770-1782, 2016 (**11 citations in Google Scholar**).
11. Robust and Ubiquitous Smartphone-based Lane Detection
Heba Aly, Anas Basalamah, and Moustafa Youssef
Elsevier Pervasive and Mobile Computing Journal, Volume 26, February 2016, Pages 3556 (**5 citations in Google Scholar**).
12. Bandwidth Aggregation Techniques in Heterogeneous Multi-homed Devices: A Survey
Karim Habak, Khaled Harras, and Moustafa Youssef
Elsevier Computer Networks, 92(2015)168188 (**18 citations in Google Scholar**).
13. Towards Dynamic Real-Time Geo-location Databases for TV White Spaces
Mohamed Ibrahim, Ahmed Saeed, Khaled Harras, and Moustafa Youssef
IEEE Network Magazine, vol.29, no.5, pp.76-82, September-October 2015 (**3 citations in Google Scholar**).
14. ACE: An Accurate and Efficient Multi-Entity Device-Free WLAN Localization System
Ibrahim Sabek, Moustafa Youssef, and Athanasios V. Vasilakos
IEEE Transactions on Mobile Computing, vol. 99, 22 May 2014 (**26 citations in Google Scholar**).
15. An Analysis of Device-Free and Device-Based WiFi-Localization Systems
Heba Aly Moustafa Youssef
International Journal of Ambient Computing and Intelligence (IJACI) 6.1 (2014): 1-19 (**6 citations in Google Scholar**).
16. Ichnaea: A Low-overhead Robust WLAN Device-free Passive Localization System
Ahmed Saeed, Ahmed Kosba, and Moustafa Youssef
IEEE Journal of Selected Topics in Signal Processing, vol. 8, no. 1, pp. 5-15, Feb. 2014 (**53 citations in Google Scholar**).
17. Opportunistic Secrecy with a Strict Delay Constraint
Karim Khalil, Onur Ozan Koyluoglu, Hesham El Gamal, and Moustafa Youssef
IEEE Transactions on Communications, vol. 61, no. 11, pp. 4700-4709, November 2013 (**15 citations in Google Scholar**).
18. Routing Metrics of Cognitive Radio Networks: A Survey
Moustafa Youssef, Mohamed Ibrahim, Mohamed Abdelatif, Lin Chen, and Athanasios V. Vasilakos
IEEE Communications Surveys & Tutorials, vol. 16, no. 1, pp.92 - 109, First Quarter 2014 (**202 citations in Google Scholar**).
19. An Optimal Deployable Bandwidth Aggregation System
Karim Habak, Khaled A. Harras, Moustafa Youssef
Elsevier International Journal of Computer and Telecommunications Networking (ComNets), vol. 57, issue 15, October 2013 (**14 citations in Google Scholar**).
20. Achievable Secrecy Rate Regions for the Two-Way Wiretap Channel
Aly El Gamal, Onur Ozan Koyluoglu, Moustafa Youssef, Hesham El Gamal
IEEE Transactions on Information Theory, vol. 59, no. 12, pp. 8099-8114, Dec. 2013 (**15 citations in Google Scholar**).

21. Nuzzer: A Large-Scale Device-Free Passive Localization System for Wireless Environments
Moustafa Siefeldin, Moustafa Youssef, et al
IEEE Transactions on Mobile Computing, vol. 12, no. 7, July 2013 (**141 citations in Google Scholar**).
22. CellSense: An Accurate Energy-Efficient GSM Positioning System
Mohamed Ibrahim and Moustafa Youssef
IEEE Transactions on Vehicular Technology, October 2011 (**51 citations in Google Scholar**).
23. Keys through ARQ: Theory and Practice
Yara Omar, Mohammed Abdelatif, Moustafa Youssef, Ahmed Sultan, Hesham Elgamal
IEEE Transactions on Information Forensics & Security, September 2011 (**40 citations in Google Scholar**).
24. A Robust Technique for WLAN Device-free Passive Motion Detection
Ahmed E. Kosba, Ahmed Saeed Moustafa Youssef
ACM Mobile Computing and Communications Review
Also presented as a research poster at ACM MobiCom, September 2011. [**Third place winner, ACM SIGMobile graduate SRC**].
25. A Source Authentication Scheme Using Network Coding
Ahmed Ossama, Tamer Elbatt, and Moustafa Youssef
International Journal of Security and Networks (IJSN), 2011 (**18 citations in Google Scholar**).
26. DNIS: a Middleware for Dynamic Multiple Network Interfaces Scheduling
Ahmed Saeed, Karim Habak, Mahmoud Fouad, Moustafa Youssef
ACM Mobile Computing and Communications Review 14(2): 16-18 (2010).
Also presented as a research poster at ACM MobiCom, September 2009. [**Second place winner, ACM SIGMobile undergraduate SRC**], 2009.
27. Overlapping Multi-hop Clustering for Wireless Sensor Networks
Moustafa Youssef, Adel Youssef, and Mohammed Younis
IEEE Transactions on Parallel and Distributed Systems, VOL. 20, NO. 12, December 2009 [**Spotlight Paper**] (**119 citations in Google Scholar**).
28. Hidden Anchor: A Lightweight Approach for Physical Layer Location Privacy
Rania Elbadry, Moustafa Youssef, and Ahmed Sultan
Journal of Computer Systems, Networks, and Communications - Special Issue on Lightweight Mobile and Wireless Systems: Technologies, Architectures, and Services (MLWS) [**Invited Paper**].
29. Establishing Overlapped Multi-hop Clusters in Wireless Sensor Networks
Adel Youssef, Mohammed Younis, Moustafa Youssef, and Ashok Agrawala
International Journal of Sensor Networks (IJSNET), IJSNET 2(1/2): 108-117 (2007) (**11 citations in Google Scholar**) [**Invited Paper**]
30. Formal Specification And Analysis Of PCF Protocol in the 802.11 Standard Using Systems of Communicating Machines
Moustafa Youssef and Raymond Miller
International Journal of Modelling and Simulation, Vol. 28, Issue 3, 2008 (**32 citations in Google Scholar**).
31. The Horus Location Determination System
Moustafa Youssef and Ashok Agrawala
ACM Journal of Wireless Networks (WINET), 14:3 June 2007 (**208 citations in Google Scholar**).
32. Calibration-Free RF-Based Localization Algorithm for Actuator/Sensor Networks using Particle Filters

- Aly El-Osery, Wael Abd-Elmageed and Moustafa Youssef
IEEE Antennas and Propagation Magazine, August, 2006.
33. Towards an Optimal Strategy For WLAN Location Determination Systems
Moustafa Youssef and Ashok Agrawala
In the International Journal of Modelling and Simulation, Vol. 27, Issue 1, 2007.
 34. Location-Clustering Techniques for Energy-Efficient WLAN Location Determination Systems
Moustafa Youssef and Ashok Agrawala
In the International Journal of Computers and Applications, Vol. 28, Issue 3, 2006 (**29 citations in Google Scholar**).
 35. Energy-Aware Management for Cluster-Based Sensor Networks
Mohamed Younis, Moustafa Youssef and Khaled Arisha
Journal of Computer Networks, Vol. 43, No. 5, pp. 539-694 (5 December 2003) (**243 citations in Google Scholar**).
 36. Instance-Based Networking: A Communication Paradigm for Mobile Applications
Moustafa Youssef, Liviu Iftode, et. al.
Mobile Computing and Communications Review, Vol. 7, No. 4, pp. 66-67, October 2003.
Also presented as a research poster at ACM MobiCom, September 2003.
 37. The ABC..I of 802.11 WLANs
Moustafa Youssef and Arunchandar Vasani
ACM Crossroads, Summer 2003 - 9.4.
 38. Rover: Scalable Location-Aware Computing
Moustafa Youssef, Ron Larsen, A. Udaya Shankar, Ashok Agrawala, et. al.
IEEE Computer, October 2002 (**64 citations in Google Scholar**).
 39. Performance Enhancement Techniques of a Banyan Network Based Interconnection Structure
Moustafa Youssef, Mohammed El-Derini, and Hussien Aly
Alexandria Engineering Journal (AEJ), September 1999.

PUBLICATIONS –
CONFERENCES

Note: According to the Computing Research Association (CRA)¹, “Relying on journal publications as the sole demonstration of scholarly achievement ... ignores significant evidence of accomplishment in computer science and engineering. For example, conference publication is preferred in the field... Obligating faculty to be evaluated by this traditional standard handicaps their careers, and indirectly harms the field.”

1. The Tale of Two Localization Technologies: Enabling Accurate Low-Overhead WiFi-based Localization for Low-end Phones
Ahmed Shokry, Mostafa Elhamshary, and Moustafa Youssef
The 25rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2017). **Acceptance rate 18%**.
2. Towards Ubiquitous Accessibility Digital Maps for Smart Cities (Vision Paper)
Heba Aly, Moustafa Youssef, and Ashok Agrawala
The 25rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2017).
3. HeartSense: Ubiquitous Accurate Multi-Modal Fusion-based Heart Rate Estimation Using Smartphones
Reham Mohamed and Moustafa Youssef
ACM Ubicomp 2017.

4. Over-The-Air TV Detection using Mobile Devices
Mohamed Ibrahim, Marco Gruteser, Khaled A. Harras, Moustafa Youssef
The 26th International Conference on Computer Communications and Networks (ICCCN'17), Vancouver, Canada (**Invited paper**).
5. Who Opened the Door? Device-free Person Identification Using Bluetooth Signals in Door Access
Wei Shao, Flora Salim, Thuong Nguyen, Moustafa Youssef
The 10th IEEE International Conference on Cyber, Physical and Social Computing (CPSCom-2017) England, UK. **Acceptance rate 30%**.
6. A Decade Later - Challenges: Device-free Passive Localization for Wireless Environments
Moustafa Youssef
Keynote Talk, the Fifth IEEE COSDEO Workshop, In Conjunction with the 14th IEEE Percom 2016.
7. TransitLabel: A Crowd-Sensing System for Automatic Labeling of Transit Stations Semantics
Moustafa Elhamshary, Moustafa Youssef, Akira Uchiyama, Hirozumi Yamaguchi, Teruo Higashino
ACM MobiSys 2016 (**5 citations in Google Scholar**). **Acceptance rate 15.7%**.
8. CONE: Zero-Calibration Accurate Confidence Estimation for Indoor Localization Systems
Rizanne Elbakry, Moustafa Youssef
International Conference on Indoor Positioning and Indoor Navigation (IPIN), 2016.
9. Zephyr: Ubiquitous Accurate multi-Sensor Fusion-based Respiratory Rate Estimation Using Smartphones
Heba Aly and Moustafa Youssef
IEEE INFOCOM 2016. **Acceptance rate 18.25%**.
10. A Robust Zero-Calibration RF-based Localization System for Realistic Environments
Rizanne Elbakry, Moustafa Youssef
IEEE SECON 2016 (**2 citations in Google Scholar**). **Acceptance rate 26%**.
11. MagBoard: Magnetic-based Ubiquitous Homomorphic Off-the-shelf Keyboard
Heba Abdelnasir, Khaled Harras, and Moustafa Youssef
IEEE SECON 2016. **Acceptance rate 26%**.
12. semMatch: Road Semantics-based Accurate Map Matching for Challenging Positioning Data
Heba Aly and Moustafa Youssef
The 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2015) (**10 citations in Google Scholar**). **Acceptance rate 18%**.
13. Towards Truly Ubiquitous Indoor Localization on a Worldwide Scale
Moustafa Youssef
The 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2015). Vision paper (**8 citations in Google Scholar**).
14. A Calibration-free RF Localization System
Rizanne Elbakly and Moustafa Youssef
The 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2015). Short paper (**3 citations in Google Scholar**).
15. Activity Recognition of Railway Passengers by Fusion of Low-Power Sensors in Mobile Phones
Moustafa Elhamshary, Akira Uchiyama, Hirozumi Yamaguchi, Tero Higashino and Moustafa Youssef
The 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2015). Short paper (**3 citations in Google Scholar**).

16. Hybrid Participatory Sensing for Analyzing Group Dynamics in the Largest Annual Religious Gathering
Shuja Jamil, Anas Basalamah, Ahmed Lbath, and Moustafa Youssef
ACM UbiComp 2015 (**4 citations in Google Scholar**). **Acceptance rate 14.8%**.
17. UbiBreathe: A Ubiquitous non-Invasive WiFi-based Breathing Estimator
Heba Abdelnasir, Khaled Harras, and Moustafa Youssef
ACM Mobihoc, 2015 (**11 citations in Google Scholar**). **Acceptance rate 14.8%**.
18. LaneQuest: An Accurate and Energy-Efficient Lane Detection System
Heba Aly, Anas Basalamah, Moustafa Youssef
IEEE PERCOM 2015 (**11 citations in Google Scholar**). **Acceptance rate 12%**.
19. WiGest: A Ubiquitous WiFi-based Gesture Recognition System
Heba Abdelnasir, Khaled Harras, and Moustafa Youssef
IEEE Infocom, 2015 (**31 citations in Google Scholar**). **Acceptance rate 19%**.
20. SemSense: Automatic Construction of Semantic Indoor Floorplans
Mostafa Elhamshary and Moustafa Youssef
International Conference on Indoor Positioning and Indoor Navigation (IPIN), 2015 (**15 citations in Google Scholar**).
21. Primary User Aware k-hop Routing for Cognitive Radio Networks
Arsany Gergis, Mohamed Ibrahim, Karim Seddik, Fadel Gigham, Khlaed Harras, and Moustafa Youssef
IEEE Global Communications Conference (GlobeCom 2015): Adhoc and Sensor Networks Symposium (**2 citations in Google Scholar**).
22. What Goes Around Comes Around: Mobile Bandwidth Sharing and Aggregation
Karim Habak, Khaled Harras, and Moustafa Youssef
The 12th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS 2015) (**5 citations in Google Scholar**).
23. Censoring for Improved Sensing Performance in Infrastructure-less Cognitive Radio Networks
Mohamed Seif, Mohamed Karmoose, Moustafa Youssef
IEEE VTC-Spring, 2015 (**2 citations in Google Scholar**).
24. The Diversity and Scale Matter: Ubiquitous Transportation Mode Detection using Single Cell Tower Information
Ali Abdelaziz and Moustafa Youssef
IEEE VTC-Spring, 2015 (**2 citations in Google Scholar**).
25. Device-Free Radio-based Low Overhead Identification of Subject Classes
Markus Scholz, Lukas Kohout, Matthias Horne, Matthias Budde, Michael Beigl, Moustafa Youssef
The 2nd Workshop on Physical Analytics (WPA), ACM MobiSys 2015 (**6 citations in Google Scholar**).
26. CheckInside: A Fine-grained Indoor Location-based Social Network
Mostafa Elhamshary and Moustafa Youssef
ACM Ubicomp, 2014 (**21 citations in Google Scholar**). **Acceptance rate 13.6%**.
27. It's the Human that Matters: Accurate User Orientation Estimation for Mobile Computing Applications
Nesma Mohssen, Rana Momtaz, Heba Aly and Moustafa Youssef
The 11th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (Mobiquitous 2014), 2014 (**12 citations in Google Scholar**). **Acceptance rate 19.3%**.
28. Accurate and Efficient Map Matching for Challenging Environments
Reham Mohamed, Heba Aly, and Moustafa Youssef

- The 22nd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2014). Short paper (**9 citations in Google Scholar**).
29. Map++: A CrowdSensing System for Automatic Map Semantic Identification
Heba Aly, Anas Basalamah, Moustafa Youssef
IEEE SECON 2014 (**24 citations in Google Scholar**). **Acceptance rate 19.8%**.
 30. Wigest: A Ubiquitous Wifi-based Gesture Recognition System
Heba Abdelnasser, Khaled Harras, and Moustafa Youssef
Qatar Foundation Annual Research Conference 2014.
 31. Towards a Characterization of White Spaces Databases Errors: An Empirical Study
Ahmed Saeed, Moustafa Youssef, Khaled A. Harras
The Ninth ACM International Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WiNTECH 2014) in conjunction with ACM MobiCom 2014.
 32. Primary User-aware Network Coding for Multi-hop Cognitive Radio Networks
Arsany Guirguis, Raymond Milad, and Moustafa Youssef
IEEE Globecom 2014.
 33. Location-Aware Probabilistic Route Discovery for Cognitive Radio Networks
Ahmed Elbagori, Ahmed Said, Moustafa Youssef
IEEE WCNC 2014 (**3 citations in Google Scholar**).
 34. Oscar: A Collaborative Bandwidth Aggregation System
Karim Habak, Khaled A. Harras, Moustafa Youssef
the Joint Qatar Foundation Annual Research Forum and Arab Expatriate Scientists Network Symposium, 2013. [**Best Paper Award**]
 35. Dejavu: An Accurate Energy-Efficient Outdoor Localization System
Heba Aly and Moustafa Youssef
The 21th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS 2013), Orlando, Florida, USA (**26 citations in Google Scholar**). **Acceptance rate 17%**. [**Best Paper Award**]
 36. Practical Provably Secure Multi-node Communication
Omar Hasan, Mahmoud Ayoub, and Moustafa Youssef
IEEE ICNC'14 (**6 citations in Google Scholar**).
 37. Best Relay Selection for Underlay Cognitive Radio Systems with Collision Probability Minimization
Yahya H. Ezzeldin, Ahmed Sultan, and Moustafa Youssef
IEEE ICNC'14 – CNC Workshop.
 38. Dead Zone Penetration Protocol for Cognitive Radio Networks
Mohammed Karmoose, Karim Habak, Mustafa El-Nainay, and Moustafa Youssef
The 9th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2013) (**11 citations in Google Scholar**).
 39. A Low-Cost Large-Scale Framework for Cognitive Radio Routing Protocols Testing
Mohamed Ibrahim, Ahmed Saeed, Khaled Harras, and Moustafa Youssef
IEEE ICC 2013 (**6 citations in Google Scholar**).
 40. Enabling Wide Deployment of GSM Localization Over Heterogeneous Phones
Mohamed Ibrahim and Moustafa Youssef
IEEE ICC 2013 (**13 citations in Google Scholar**).
 41. GreenLoc: An Energy Efficient Architecture for WiFi-based Indoor Localization on Mobile Devices
Mohamed Abdellatif, Abderrahmen Mtibaa, Khaled Harras, and Moustafa Youssef
IEEE ICC 2013 (**11 citations in Google Scholar**).

42. SensorChecker: Reachability Verification in Mission-Oriented Sensor Networks
Ehab Al-Shaer, Qi Duan, Saeed Al-Haj, and Moustafa Youssef
ACM MiSeNet 2013, in conjunction with ACM MobiCom 2013.
43. Unconventional TV Detection using Mobile Devices
Mohamed Ibrahim, Ahmed Saeed, Khaled Harras, and Moustafa Youssef
The Seventh International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2013).
44. EKOCA: Energy Aware Overlapping Multihop Clustering for Wireless Sensor Networks
Eman Ramadan, Moustafa Youssef et al
The Eighth International Multi-Conference on Computing in the Global Information Technology (ICCGI 2013).
45. New Insights into WiFi-based Device-free Localization
Heba Aly and Moustafa Youssef
in Proceedings of the 4th CoSDEO workshop – Device-Free Radio-Based recognition: In conjunction with the 2013 ACM Conference on Ubiquitous Computing (UBICOMP 2013) (**17 citations in Google Scholar**).
46. MonoPHY: Mono-Stream-based Device-free WLAN Localization via Physical Layer Information
Heba Abdelnaser, Reham Muhammad, Ibrahim Sabek, Moustafa Youssef
IEEE WCNC 2013 (**26 citations in Google Scholar**).
47. Stability Analysis in a Cognitive Radio System with Cooperative Beamforming
Mohammed Karmoose, Ahmed Sultan, Moustafa Youssef
IEEE WCNC 2013.
48. OPERETTA: An Optimal Deployable Energy Efficient Bandwidth Aggregation System
Karim Habak, Khaled A. Harras, Moustafa Youssef
the Joint Qatar Foundation Annual Research Forum and Arab Expatriate Scientists Network Symposium, 2012. [**Best Paper Award**]
49. On the Flow Anonymity Problem in Network Coding
Ahmed Ossama, Tamer Elbatt, and Moustafa Youssef
IEEE IWCMC 2013.
50. A Location-Aided Routing Protocol for Cognitive Radio Networks
Karim Habak, Mohammed Abdelatif, Hazem Hagrass, Karim Rizc and Moustafa Youssef
IEEE ICNC'13 (**36 citations in Google Scholar**).
51. Practical Provably Secure Key Sharing for Near Field Communication Devices
Ahmed Elbagoury, Ahmed Mohsen, Mohamed Ramadan and Moustafa Youssef
IEEE ICNC'13.
52. CrowdInside: Automatic Construction of Indoor Floorplans
Moustafa Farid and Moustafa Youssef
The 20th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2012), Redondo Beach, USA (**87 citations in Google Scholar**).
53. Multi-entity Device-Free WLAN Localization
Ibrahim Sabek and Moustafa Youssef
IEEE Globecom 2012 (**22 citations in Google Scholar**).
54. OPERETTA: An Optimal Energy Efficient Bandwidth Aggregation System
Karim Habak, Khaled A. Harras, Moustafa Youssef
IEEE SECON 2012 (**11 citations in Google Scholar**).
55. Analysis of MSR Routing Protocol for WSNs
Mariam Moustafa, and Nazih Elderini, Magdy Ahmed, Moustafa Youssef

- The 2012 IEEE International Conference on Wireless Information Technology and Systems, ICWITS 2012, Hawaii, USA.
56. RF-based Traffic Detection and Identification
Amal Lotfy and Moustafa Youssef
IEEE Vehicular Technology Conference (VTC2012-Fall), Quebec City, Canada (**16 citations in Google Scholar**).
 57. No Need to War-Drive: Unsupervised Indoor Localization
He Wang, Souvik Sen, Ahmed Elgohary, Moustafa Farid, Moustafa Youssef, Romit Roy Choudhury
ACM Tenth International Conference on Mobile Systems, Applications, and Services (MobiSys) 2012 (**415 citations in Google Scholar**).
 58. RASID: A Robust WLAN Device-free Passive Motion Detection System
Ahmed E. Kosba, Ahmed M Saeed, Moustafa Youssef
IEEE International Conference on Pervasive Computing and Communications (PerCom) 2012 (**81 citations in Google Scholar**).
 59. UVote: A Ubiquitous E-Voting System
Reem Abdelkader, Moustafa Youssef
The 3rd International Conference on Mobile, Ubiquitous, and Intelligent Computing (MUSIC).
 60. RF-based Traffic Detection and Identification
Amal AlHusseiny and Moustafa Youssef
Proceedings of the 8th International Conference on Electrical Engineering (ICEENG 2012).
 61. DBAS: A Deployable Bandwidth Aggregation System
Karim Habak, Khaled A. Harras, Moustafa Youssef
IEEE NTMS 2012 (**11 citations in Google Scholar**).
 62. ReVISE: An RF-based Vehicle Detection and Speed Estimation System
Nehal Kasem, Ahmed Kosba, Moustafa Youssef
IEEE VTC Conference, Yokohama, Japan, 2012 (**36 citations in Google Scholar**).
 63. UPTIME: Ubiquitous Pedestrian Tracking using Mobile Phones
Moustafa Alzantot, Moustafa Youssef
IEEE WCNC 2012 (**111 citations in Google Scholar**).
 64. Robust WLAN Device-free Passive Motion Detection
Ahmed E. Kosba, Ahmed M Saeed, Moustafa Youssef
IEEE WCNC 2012 (**20 citations in Google Scholar**).
 65. G-DBAS: A Green and Deployable Bandwidth Aggregation System
Karim Habak, Khaled A. Harras, Moustafa Youssef
IEEE WCNC 2012.
 66. Synthetic Generation of Radio Maps for Device-Free Passive Localization
Ahmed Eleryan, Mohamed Elsabagh, Moustafa Youssef
IEEE GLOBECOM 2011 (**39 citations in Google Scholar**).
 67. Impact of the Human Motion on the Variance of the Received Signal Strength of Wireless Links
Kareem El-Kafrawy, Moustafa Youssef, Amr El-Keyi
in The 22nd IEEE Personal Indoor Mobile Radio Communications Conference- PIMRC'11 (**14 citations in Google Scholar**).
 68. WCPS-OSL: A Wireless Cyber-Physical System form Object Sensing and Localization
Amal Lotfy AlHusseiny, Moustafa Youssef, and Mohamed ELTowiessy
The Workshop on Collaborative, Autonomic, and Resilient Defenses for Cyber Physical Systems (CyPhyCARD'11), in conjunction with CollaborateCom 2011.

69. Kalman Filter-based Tracking of a Device-free Passive Entity in Wireless Environments
Moustafa Seifeldin, Amr Elkeyi, and Moustafa Youssef
The Sixth ACM International Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WiNTECH 2011) in conjunction with ACM MobiCom 2011 (**9 citations in Google Scholar**).
70. MSR: A Multipath Secure Reliable Routing Protocol for WSNs
Mariam Moustafa, Moustafa Youssef, and Nazih Elderini
The 9th ACS/IEEE International Conference on Computer Systems and Applications, AICCSA 2011 (**17 citations in Google Scholar**).
71. SANC: Source Authentication Using Network Coding
Ahmed Ossama, Tamer Elbatt, and Moustafa Youssef
The First IEEE International Workshop on Security in Computers, Networking and Communications. In conjunction with the IEEE InfoCom 2011.
72. Practical Provably Secure Communication for Half-Duplex Radios
Ahmed Elmorsy, Mohamed Nour, Mohamed Elsabagh, Moustafa Youssef
IEEE ICC 2011.
73. A Hidden Markov Model for Localization Using Low-End GSM Cell Phones
Mohamed Ibrahim and Moustafa Youssef
IEEE ICC 2011 (**45 citations in Google Scholar**).
74. ARQ Security in RFID Networks
Mohamed Elsabagh, Moustafa Youssef, Hesham Elgamal
IEEE ICC 2011 Physical Layer Security Workshop.
75. A New Routing Metric and Protocol for Multipath Routing in Cognitive Networks
Islam Beltagy, Moustafa Youssef, and Mohamed El-Derini
IEEE WCNC 2011 (**24 citations in Google Scholar**).
76. ARQ Security in Wi-Fi and RFID Networks
Yara Abdallah, Mohamed Elsabagh, Moustafa Youssef, and Hesham El Gamal
Forty-Eighth Annual Allerton Conference Sept 29 - Oct 1, 2010, University of Illinois at Urbana-Champaign, IL, USA. [**Invited Paper**]
77. CellSense: A Probabilistic RSSI-based GSM Positioning System
Mohamed Ibrahim and Moustafa Youssef
IEEE Globecom 2010 (**52 citations in Google Scholar**).
78. GAC: Energy-Efficient Hybrid GPS-Accelerometer-Compass GSM Localization
Moustafa Youssef and Mohamed Yosef and Mohamed El-Derini
IEEE Globecom 2010 (**83 citations in Google Scholar**).
79. Automatic Generation of Radio Maps for Localization Systems
Ahmed Elerian, Mohamed Elsabagh, and Moustafa Youssef
MOBIQUITOUS - 2010.
80. Propagation Modeling for Accurate Indoor WLAN RSS-based Localization
Karim Elkafrawy, Moustafa Youssef, Amr Elkeyi, and Ayman Naguib
IEEE Vehicular Technology Conference'10 (**45 citations in Google Scholar**).
81. A Deterministic Large-Scale Device-Free Passive Localization System for Wireless Environments
Moustafa Anwar and Moustafa Youssef
The 2nd workshop on Affect and Behaviour Related Assistance in Support for the Elderly in conjunction with The Third International Conference on Pervasive Technologies Related to Assistive Environments, PETRA2010 (**46 citations in Google Scholar**).
82. HyberLoc: Providing Physical Layer Location Privacy in Hybrid Sensor Networks
Rania Elbadry, Ahmed Sultan, and Moustafa Youssef

- IEEE ICC'10 Ad-hoc, Sensor and Mesh Networking Symposium (**17 citations in Google Scholar**).
83. New Achievable Rate Regions for the Two Way Wiretap Channel
Aly El Gamal, Onur Koyluoglu, Moustafa Youssef, and Hesham El Gamal
IEEE Information Theory Workshop, 2010 (**10 citations in Google Scholar**).
 84. Hidden Anchor: Providing Physical Layer Location Privacy in Hybrid Wireless Sensor Networks
Rania El-Badry, Moustafa Youssef, and Mohamed Eltoweissy
IEEE NTMS - Security Track, 2009 (**7 citations in Google Scholar**).
 85. Analysis of a Device-free Passive Tracking System in Typical Wireless Environments
Ahmed Kosba, Ahmed Abdelkader, and Moustafa Youssef
IEEE NTMS - Mobility Track, 2009 (**49 citations in Google Scholar**).
 86. CellNet:A Bottom-Up Approach to Network Design
Hoda Hassan, Mohamed Eltoweissy, and Moustafa Youssef
IEEE NTMS - New Technologies and Services Track, 2009 (**10 citations in Google Scholar**).
 87. ARQ Secrecy: From Theory to Practice
Yara Omar, Moustafa Youssef, and Hesham El Gamal
IEEE Information Theory Workshop, 2009 (**16 citations in Google Scholar**). [Invited Paper]
 88. Randomization for Security in Half-Duplex Two-Way Gaussian Channels
Aly Elgamal, Moustafa Youssef, and Hesham El Gamal
IEEE Globecom 2009 Communication Theory Symposium.
 89. Secrecy-Via-Feedback: From Theory to Practice
Yara Omar, Aly El Gamal, Moustafa Youssef, and Hesham El Gamal
Information Theory and Applications (ITA'09) Workshop 2009.
 90. On the Delay Limited Secrecy Capacity of Fading Channels
Karim Khalil, Moustafa Youssef, Onur Ozan Koyluoglu, and Hesham El Gamal
IEEE International Symposium on Information Theory, 2009 (**25 citations in Google Scholar**).
 91. Distributed Efficient Storage Algorithms for Large-Scale Wireless Sensor Networks
Salah A. Aly, Mahmoud Zidan, and Moustafa Youssef
IEEE ICC 2009 - Ad-Hoc and Sensor Networking Symposium (**17 citations in Google Scholar**).
 92. Smart Devices for Smart Environments: Device-free Passive Detection in Real Environments
May Moussa and M. Youssef
The Second IEEE International Workshop on Intelligent Pervasive Devices (PerDev09), co-located with Percom 2009 (**118 citations in Google Scholar**).
 93. Towards Evolving Sensor Actor Networks
R. Eltaras, M. Eltoweissy, and M. Youssef
The Second IEEE Workshop on Mission Critical Networking, in conjunction with IEEE Infocom 2008.
 94. Federated Protocol Design
H. Mamdouh, M. Eltoweissy, and M. Youssef
Infocom 2008 - Students' Workshop.
 95. Challenges: Device-free Passive Localization for Wireless Environments
Moustafa Youssef, Matthew Mah, and Ashok Agrawala
The Thirteenth Annual International Conference on Mobile Computing and Networking (MobiCom 07), Montreal, QC, Canada, September 9-14, 2007 (**406 citations in Google Scholar**). [Most popular challenge paper award]

96. On the Accuracy of Multi-hop Relative Location Estimation in Wireless Sensor Networks
Adel Youssef, Mohamed Younis, Moustafa Youssef, and Ashok Agrawala
The 2007 ACM International Wireless Communications and Mobile Computing Conference (IWCMC 2007), August 12-16, 2007, Honolulu, Hawaii.
97. A Taxonomy of Localization Schemes for Wireless Sensor Networks
Adel Youssef and Moustafa Youssef
The 2007 International Conference on Wireless Networks (ICWN'07), Las Vegas, Nevada, June 25-28, 2007 (**39 citations in Google Scholar**).
98. Rover: An Integration and Fusion Platform to Enhance Situational Awareness
Christian B Almazan, Moustafa Youssef, and Ashok Agrawala
The First International Workshop on Research Challenges in Next Generation Networks for First Responders and Critical Infrastructures (NetCri07), April 13th, 2007, New Orleans, Louisiana, April 13 (**17 citations in Google Scholar**).
99. PinPoint: An Asynchronous Time-Based Location Determination System
Moustafa Youssef, Adel Youssef, Chuck Rieger, Udaya Shankar, and Ashok Agrawala
Fourth International Conference on Mobile Systems, Applications, and Services (MobiSys 2006), Uppsala, Sweden, June 19-22, 2006 (**150 citations in Google Scholar**).
100. Distributed Formation of Overlapping Multi-hop Clusters in Wireless Sensor Networks
Mohammed Younis, Adel Youssef, Moustafa Youssef, and Ashok Agrawala
the 2006 IEEE GLOBECOM Conference, San Francisco, California, November 27– December 1, 2006 (**79 citations in Google Scholar**). [**Best paper runner-up**]
101. Deriving Consistent Time Base Using Local Clock Information
Moustafa Youssef and Ashok Agrawala
the 2006 IEEE 1588 Conference, Gaithersburg, MD, October 2-4, 2006.
102. The Horus WLAN Location determination System
Moustafa Youssef and Ashok Agrawala
Third International Conference on Mobile Systems, Applications, and Services (MobiSys 2005), Seattle, WA, USA, June 2005 (**924 citations in Google Scholar**).
103. Multivariate Analysis for WLAN Location Determination Systems
Moustafa Youssef, Mohamed Abdallah, and Ashok Agrawala
The Second Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services (MobiQ 2005) July 17-21, 2005, San Diego, California (**36 citations in Google Scholar**).
104. A Location-Determination System for Enabling M-Commerce Applications
Moustafa Youssef and Ashok Agrawala
International Business Information Management Conference (5th IBIMA), December 13-16, 2005, Cairo, Egypt.
105. IEEE 802.11 Active Probing Mechanism: Analysis and Enhancements
Moustafa Youssef, Layla Shahamat, and Ashok Agrawala
International Conference on Wireless Networks, Communications, and Mobile Computing Sponsors (Wirelesscom 2005), June 13-16, 2005, Hawaii, USA.
106. Characterizing IEEE 802.11 Traffic: The Wireless Side
Jihwang Yeo, Moustafa Youssef, Tristan Henderson, and Ashok Agrawala
International Workshop on Wireless Traffic Measurements and Modeling (WiTMeMo '05), In conjunction with Mobisys 2005, Seattle, WA, USA, June 2005 (**76 citations in Google Scholar**).
107. Handling Samples Correlation in the Horus System
Moustafa Youssef and Ashok Agrawala
IEEE Infocom, Hong Kong, March 2004 (**229 citations in Google Scholar**).

108. A Framework for Wireless LAN Monitoring and Its Applications
Jihwang Yeo, Moustafa Youssef, and Ashok Agrawala
ACM Workshop on Wireless Security (WiSe'04) in conjunction with ACM MobiCom 2004, Philadelphia, PA, US, October 2004 (**209 citations in Google Scholar**).
109. On the Optimality of WLAN Location Determination Systems
Moustafa Youssef and Ashok Agrawala
Communication Networks and Distributed Systems Modelling and Simulation (CNDS'04) Conference, January 18-24 2004, San Diego, California (**114 citations in Google Scholar**).
110. Continuous Space Estimation for WLAN Location Determination Systems
Moustafa Youssef and Ashok Agrawala
IEEE Thirteenth International Conference on Computer Communications and Networks (IC3N'04), Chicago, IL USA, October 11-13, 2004 (**53 citations in Google Scholar**).
111. WLAN Location Determination via Clustering and Probability Distributions
Moustafa Youssef, Ashok Agrawala, A. Udaya Shankar
IEEE International Conference on Pervasive Computing and Communications (PerCom'03), Fort Worth, Texas, March 23-26, 2003 (**933 citations in Google Scholar**).
112. Implementation of a Scalable Context-Aware Computing System
Moustafa Youssef, A. Udaya Shankar, Ashok Agrawala et al.
Personal Wireless Communications (PWC'03), September 23-25, 2003 - Venice, Italy.
113. Specification and Analysis of the DCF and PCF Protocols in the 802.11 Standard Using Systems of Communicating Machines
Moustafa Youssef, Arunchandar Vasan, and Raymond Miller
The 10th IEEE International Conference on Network Protocols (ICNP'02), Paris, France, November 12-15, 2002.
114. Efficient Aggregation of Delay-Constrained Data in Wireless Sensor Networks
Kemal Akkaya, Mohamed Younis, and Moustafa Youssef
The ACS/IEEE workshop on Internet Compatible QoS in Ad hoc Wireless Networks (IC-QAWN'05), Cairo, Egypt, January 2005 (**51 citations in Google Scholar**).
115. Energy-Aware Routing in Cluster-Based Sensor Networks
Mohamed Younis, Moustafa Youssef, and Khaled Arisha
The 10th IEEE/ACM International Symposium on Modelling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS'02), Fort Worth, Texas, October 2002 (**724 citations in Google Scholar**).
116. ATP: Autonomous Transport Protocol
Moustafa Youssef, Liviu Iftode, et. al.
IEEE Midwest Symposium on Circuits and Systems, December 2003, Cairo, Egypt.
117. Small-Scale Compensation for WLAN Location Determination Systems
Moustafa Youssef, Ashok Agrawala
IEEE Wireless Communications and Networking Conference (WCNC'03) New Orleans, Louisiana, March 16-20, 2003 (**139 citations in Google Scholar**).
118. Performance Evaluation of an Energy-Aware Routing Protocol for Sensor Networks
Moustafa Youssef, Mohamed Younis, and Khaled Arisha
The International Conference on Wireless Networks (ICWN'02), Las Vegas, Nevada, June 2002.
119. Energy-Aware TDMA-Based MAC for Sensor Networks
Khaled Arisha, Moustafa Youssef, and Mohamed Younis
The IEEE Integrated Management of Power Aware Communications, Computing and Networking (IMPACCT'02) New York City, New York, May 2002.

120. A Constrained Shortest-Path Energy-Aware Routing Algorithm for Wireless Sensor Networks
Moustafa Youssef, Mohamed Younis, and Khaled Arisha
The IEEE Wireless Communications and Networking Conference (WCNC), Orlando, Florida, March 2002 (**137 citations in Google Scholar**).
121. Cross-Language Information Retrieval: Layout Strategies for Gloss Translation
Eiman Elnahrawy, Nagia Ghanem, Moustafa Youssef
Workshop on Evaluation of Interactive Cross-Language Information Retrieval, University of Maryland, College Park, May 2001.
122. Structure and Performance Evaluation of a Replicated Banyan Network based ATM Switch
Moustafa Youssef, Mohammed El-Derini, and Hussien Aly
The IEEE ISCC'99, Sharm El-Sheikh, Egypt, June 1999.

Refereed Posters

123. CRESCENT: a Modular Cost-Efficient Open-Access Testbed for Cognitive Radio Networks Routing Protocols
Abdelrahman Asal, Ahmad Mamdouh, Ahmed Salama, Moamen Elgendy, Moamen Mokhtar, Muhammed Elsayed, and Moustafa Youssef
The Nineteenth Annual International Conference on Mobile Computing and Networking (MobiCom'13), Miami, Florida, September 30-Oct 4 (**4 citations in Google Scholar**). [*Participant, ACM SIGMobile undergraduate SRC competition*]
124. Enabling Large Scale Flexible Deployment of Cognitive Radio Routing Protocols
Ahmed Saeed, Mohamed Ibrahim, and Moustafa Youssef
The Seventh ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH 2012) in conjunction with ACM MobiCom 2012.
125. RASID: A Robust Technique for WLAN Device-free Passive Motion Detection
Ahmed E. Kosba, Ahmed Saeed, and Moustafa Youssef
The Seventeenth Annual International Conference on Mobile Computing and Networking (MobiCom'11), Las Vegas, USA, September, 2011. [**Third place winner, ACM SIG-Mobile graduate SRC**]
126. IPS: a Ubiquitous Indoor Positioning System
Moustafa Farid, Reem Abdelkader, Amal Lotfy, and Moustafa Youssef
MobiQuitous 2011
127. DNIS: A Middleware for Dynamic Multiple Network Interface Scheduling
Ahmed Saeed, Karim Habak, Mahmoud Fouad, and Moustafa Youssef
The Fifteenth Annual International Conference on Mobile Computing and Networking (MobiCom'09), Beijing, China, September 21-26 (**9 citations in Google Scholar**). [**Second place winner, ACM SIGMobile undergraduate SRC**]
128. Autonomous Transport Protocol
Moustafa Youssef, Liviu Iftode et. al.
The Eleventh Annual International Conference on Network Protocols, (ICNP'03), Atlanta, GA, USA, November 4-7, 2003.
129. IBN: A Communication Paradigm for Mobile Applications
Moustafa Youssef, Liviu Iftode et. al.
The Ninth Annual International Conference on Mobile Computing and Networking (MobiCom'03), San Diego, CA, USA, September 14-19, 2003.
130. Rover Technology: Implementation of a Scalable Context-Aware Computing System
Moustafa Youssef, A. Udaya Shankar, Ashok Agrawala et al.
The First International Conference on Mobile Systems, Applications, and Services (Mobi-Sys'03), San Francisco, CA, USA, May 5-8, 2003.

RESEARCH DEMOS

- Zephyr Demo: Ubiquitous Accurate multi-Sensor Fusion-based Respiratory Rate Estimation Using Smartphones
Heba Aly and Moustafa Youssef
Research Demo: IEEE Infocom 2016.
- WiGest Demo: A Ubiquitous WiFi-based Gesture Recognition System
Heba Abdelnasir, Khaled Harras, and Moustafa Youssef
Research Demo: IEEE Infocom 2015.
- Demonstrating Map++: A Crowd-sensing System for Automatic Map Semantics Identification
Shuja Jamil Sheikh, Anas Basalamah, Heba Aly, and Moustafa Youssef
Research Demo: IEEE SECON 2014.
- Demonstrating v(t) CSMA: A Link Scheduling Algorithm in Wireless Networks with Improved Delay Characteristics
Ahmed Elbagoury, Moustafa Youssef, Dongyue Xue, and Eylem Ekici
Research Demo: Mobicom 2013.
- Demo: CRESCENT- A Modular Cost-Efficient Open-Access Testbed for Cognitive Radio Networks Routing Protocols
Ahmad Mamdouh, Abdelrahman Asal, Ahmed Salama, Moamen Elgendy, Moamen Mokhtar, Muhammed Elsayed, and Moustafa Youssef
Research Demo: Mobicom 2013.
- Demo: New DfP localization insights
Heba Aly and Moustafa Youssef
Research Demo, the 4th CoSDEO workshop – Device-Free Radio-Based recognition: In conjunction with the 2013 ACM Conference on Ubiquitous Computing (UBICOMP 2013).
- Demonstrating CrowdInside: A System for the Automatic Construction of Indoor Floor-plans
Moustafa Alzantot and Moustafa Youssef
Research Demo: IEEE International Conference on Pervasive Computing and Communications (PerCom) 2013.
- RASID Demo: A Robust WLAN Device-free Passive Motion Detection System
Ahmed Kosba and Moustafa Youssef
Research Demo: IEEE International Conference on Pervasive Computing and Communications (PerCom) 2012.
- Demonstrating Practical Provably Secure Multi-node Communication
Omar Hassan, Mahmoud Ayoub, and Moustafa Youssef
Research Demo: The Seventh ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH 2012) in conjunction with ACM MobiCom 2012.
- SPOT Demo:
Ibrahim Sabek, and Moustafa Youssef
Research Demo: The Seventh ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH 2012) in conjunction with ACM MobiCom 2012.
- OPERETTA Demo: An Optimal Energy Efficient Bandwidth Aggregation System
Karim Habak, Khaled A. Harras, Moustafa Youssef
Research Demo: IEEE SECON 2012.
- CellChek: Demonstrating a Cost-effective Cell Phone-based Patient Monitoring and Advising System
Mostafa Izz, Moustafa Youssef, et al
Research Demo: MobiSys 2012.
- Classroom7: Please Make Sure That Your Phones are Switched On
Moustafa Farid, Mohamed Hataba, and Moustafa Youssef
Research Demo: MobiQuitous 2011.

- AROMA: Automatic Generation of Radio Maps for Localization Systems
Ahmed Eleryan, Mohamed Elsabagh, and Moustafa Youssef
Research Demo: The Sixth ACM International Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WiNTECH 2011) in conjunction with ACM MobiCom 2011 (**16 citations in Google Scholar**).
- DNIS: Demonstrating Dynamic Multiple Network Interface Scheduling
Ahmed Saeed, Karim Habak, Mahmoud Fouad, and Moustafa Youssef
Research Demo: Mobicom 2009.
- Nuzzer-D: Demonstrating Device-free Passive Localization for Wireless Environments
Ahmed El-Roby, Mohamed Fahmy, May Moussa, and Moustafa Youssef
Research Demo: Mobicom 2008.
- HyberLoc: Demonstrating Secure Localization In Hybrid Sensor Networks
Mohamed Adel, Mohamed Ibrahim, Karim Abulmakarem, Moustafa Youssef, and Mohamed Eltoweissy
Research Demo: Mobicom 2008.

BOOKS AND BOOKS CHAPTERS

- OSCAR: A Deployable Adaptive Mobile Bandwidth Sharing and Aggregation System
Karim Habak, Khaled A. Harras, Moustafa Youssef
The 11th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2014), 2014.
- Poster IPS: A Ubiquitous Indoor Positioning System
Moustafa Alzantot, Reem ElKholi, Amal Lotfy, and Moustafa Youssef
Lecture Notes in Computer Science 104, pp. pp. 228–232, 2012.
- Demo Classroom7: Please, Make Sure Your Phones are Switched On
Moustafa Alzantot, Muhammad Hataba, and Moustafa Youssef
Lecture Notes in Computer Science 104, pp. 243–247, 2012.
- Health Informatics: An adaptive Communication Technology for future Healthcare
Chapter: Cost-effective Networking for Mobile Healthcare
Nova Science Publishing, 2012. ISBN: 978-1-61942-265-0
Yossuf Khazbak, Mostafa Izz, Tamer ElBatt, and Moustafa Youssef.
- Automatic Generation of Radio Maps for Localization Systems
Ahmed Elerian, Mohamed Elsabagh, and Moustafa Youssef
Lecture Notes of ICST (LNICST) series, Springer, ISBN 978-3-642-29153-1.
- Handling QoS Traffic in Wireless Sensor Networks
Kemal Akkaya, Mohamed Younis, and Moustafa Youssef
Encyclopedia on Ad Hoc and Ubiquitous Computing, World Scientific, 2009 ISBN: 978-981-283-348-8.
- A Survey of Indoor Location Determination Systems
Moustafa Youssef
Encyclopedia of Geographical Information Systems, Springer 2007.
- System-Level Power Optimization for Wireless Multimedia Communication: Power Aware Computing
Chapter 2: "Energy-Aware TDMA-Based MAC for Sensor Networks"
Khaled Arisha, Moustafa Youssef, and Mohamed Younis
Kluwer Academic Publishers, ISBN: 140207204X, December 2002 (**338 citations in Google Scholar**).
- Implementation of a Scalable Context-Aware Computing System
Moustafa Youssef, A. Udaya Shankar, Ashok Agrawala, et al
Lecture notes in computer science ISSN 0302-9743 .

OTHER TECHNICAL
REPORTS

1. On the Delay-Limited Secrecy Capacity
Karim Aboumakarim, Moustafa Youssef, and Hesham Elgamal
WINC TR-1006, Wireless Intelligent Networks Center, Nile University, Egypt, September 2008.
2. Overlapping Multihop Clustering for Wireless Sensor Networks
Moustafa Youssef, Adel Youssef, and Mohamed Younis
WINC TR-1001, Wireless Intelligent Networks Center, Nile University, Egypt, September 2008.
3. Secure Interactive Communication in Wireless Sensor Networks
Aly Elgamal, Moustafa Youssef, and Hesham Elgamal
WINC TR-1004, Wireless Intelligent Networks Center, Nile University, Egypt, September 2008.
4. Karim Abulmakarem, Moustafa Youssef, and Hesham Elgamal
WINC TR-1005, Wireless Intelligent Networks Center, Nile University, Egypt, December 2008.
5. The Overlapped K-hop (OK) Clustering Algorithm
Adel Youssef, Moustafa Youssef, Mohamed Younis, and Ashok Agrawala
CS-TR 4735, Department of Computer Science, University of Maryland, College Park, July 2005.
6. The IEEE 802.11 Active Probing Mechanism: Analysis and Enhancements
Moustafa Youssef, Layla Shahamat, and Ashok Agrawala
CS-TR, Department of Computer Science, University of Maryland, College Park, March 2004.
7. Characterizing the IEEE 802.11 Traffic: The Wireless Side
Jihwang Yeo, Moustafa Youssef, and Ashok Agrawala
CS-TR 4570, Department of Computer Science, University of Maryland, College Park, March 2004.
8. ATP: Autonomous Transport Protocol
Moustafa Youssef, Liviu Iftode, et. al.
CS-TR 4483, Department of Computer Science, University of Maryland, College Park, May 2003.
9. Handling Samples Correlation in the Horus System
Moustafa Youssef and Ashok Agrawala
CS-TR 4506, Department of Computer Science, University of Maryland, College Park, June 2003 (**229 citations in Google Scholar**).
10. On the Optimality of WLAN Location Determination Systems
Moustafa Youssef and Ashok Agrawala
CS-TR 4459, Department of Computer Science, University of Maryland, College Park, March 2003.
11. Horus: An RF-Based Location Determination System
Moustafa Youssef and Ashok Agrawala
Research Review Poster, University of Maryland, College Park, March 2003.
12. Analyzing the Point Coordination Function of the IEEE 802.11 WLAN Protocol using a Systems of Communicating Machines Specification
Moustafa Youssef and Raymond Miller
CS-TR 4357, Department of Computer Science, University of Maryland, College Park, March 2002.
13. A Probabilistic Clustering-Based Indoor Location Determination System
Moustafa Youssef, Ashok Agrawala, A. Udaya Shankar, and Sam H. Noh
CS-TR 4350, Department of Computer Science, University of Maryland, College Park, March 2002.
14. Location Based Authentication for Wireless Networks
William Arbaugh, Moustafa A. Youssef, Narendar Shankar, Arunesh Mishra, Ashok Agrawala
Research Review Day 2002 poster, University of Maryland at College Park, March 2002.

15. Rover Technology: Enabling a Location-Aware Computing Environment
Moustafa Youssef, Ron Larsen, A. Udaya Shankar, Ashok Agrawala, et. al.
CS-TR 4312, Department of Computer Science, University of Maryland, College Park, December 2001.
16. Universal Usability: Cross-Language Information Retrieval
Moustafa Youssef
Department of Computer Science, University of Maryland, College Park, April 2001.
17. Cross-Language Information Retrieval: Layout Strategies for Gloss Translation
Eiman M. Elnahrawy, Nagia M. Ghanem, and Moustafa Youssef
Department of Computer Science, University of Maryland, College Park, 2001.

INVITED TALKS

- Indoor Geographic Information Systems: Challenges and Opportunities, ACM Distinguished Lecture, Vienna Technical University, Austria, May 2017.
- Semantic Understanding of Indoor Spaces, National Institute of Informatics, Japan, March 2017.
- Ubiquitous Indoor Semantic Awareness on a Worldwide Scale, Uber, USA.
- Ubiquitous Indoor Spatial Awareness on a World-wide Scale, Keynote Speech, the 8th ACM SIGSPATIAL Workshop on Indoor Spatial Awareness (ISA 2016), In Conjunction with the 24th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2016).
- A Decade Later - Challenges: Device-free Passive Localization for Wireless Environments, Keynote Speech, the Fifth IEEE COSDEO Workshop, In Conjunction with the 14th IEEE Percom 2016.
- Device-free localization: the future for ubiquitous sensing, ACM Distinguished Lecture, Royal Melbourne Institute of Technology (RMIT), Australia, March 2016.
- Context-awareness through Sensor-less Sensing for Wireless Environments, National Institute of Informatics, Japan, February 2016.
- Dejavu: An Accurate Energy-Efficient Outdoor Navigation System, International Conference and Exhilaration (Melaha'16), Keynote Speech, Cairo 2016.
- Towards Ubiquitous Indoor Localization on a World-wide Scale for the IoT, IoT Summit Egypt, November 2015.
- Japanese National Institute of Informatics Shonan Meeting on Challenges for real-time human activity recognition Shonan Village Center, Japan September 2015.
- Next Generation Outdoor Localization Technologies, Virginia Tech, USA, August 2015.
- Trends in Mobile Wireless Research, Bosch Research, Stuttgart, Germany, July 2015.
- Localization Technologies for the IoT, Cairo University, June 2015.
- Research in Egypt: Changing Culture and Building Hope. ACM Students Chapter, Alexandria university, Egypt, May 2015.
- CheckInside: A Fine-grained Indoor Location-based Social Network. Google Inc., San Francisco, November 2014.
- Mining Vehicular Context: The Full Spectrum. NSF DriveSense'14 Workshop, Norfolk, VA, USA .
- CrowdInside: Automatic Construction of Indoor Floorplans. Bell Labs, Antwerp, Belgium, August 2014.
- CrowdInside: Automatic Construction of Indoor Floorplans. Nanyang Technical University (NTU), Singapore, July 2014.

- Collaboration Between Academia and Industry in the ICT sector. The Second International Japan-Egypt Conference on Electronics, Communications and Computers (JEC-ECC 2013), Egypt, December 2013.
- Dejavu: An Accurate Energy-Efficient Outdoor Localization System. Georgia Tech, Atlanta, USA, November 2013.
- CrowdInside: Automatic Construction of Indoor Floorplans. Microsoft Research Mobility Summit, Seattle, USA, May 2013.
- Wireless Physical Layer Security, From Theory to Practice. US-Egypt Cyber Security Workshop, Smart Village, Egypt, May 2013.
- Marrying Mobile and Cloud Computing for Better Life. The Second Annual Conference and Exhibition on Communications and Information Technologies for People with Disabilities, Smart Village, Egypt, April 2013.
- CrowdInside: Automatic Construction of Indoor Floorplans. Google Inc., San Francisco, November 2012.
- NSF workshop on Networking research collaboration, Istanbul, Turkey, June 2012.
- Ubiquitous Sensing: Unconventional Low-cost Sensing on a Worldwide Scale. Ubiquitous Computing: Sensors and Wireless Sensors Network (UCSWSN) Workshop, Technology Innovation and Entrepreneurship Center (TIEC), Egypt, October 2012.
- Ubiquitous Indoor Localization. University of Texas at Austin, June 2012.
- Mobile Cloud Computing. Egyptian Engineering Syndicate, April 2012.
- Device-free Passive Localization for Wireless Environments. Carnegie Mellon University, Qatar, February 2012.
- Device-free Passive Localization for Wireless Environments. Qatar Computing Research Institute (QCRI), Qatar, February 2012.
- Your Wireless Network Knows Where You Are. University of Florida, USA, December 2011.
- Your Wireless Network Knows Where You Are. Rice University, December, 2011.
- Your Wireless Network Knows Where You Are. Cairo Microsoft Innovation Center, October 2011.
- Mobile Computing on the Cloud. Alexandria University, July 2011.
- Locationoid: An Accurate Energy-Efficient Location Provider for the Android Platform. University of Maryland, November 2010.
- Recent Developments in Localization Systems. University of Minnesota, USA, September 2010.
- Locationoid: An Accurate Energy-Efficient Location Provider for the Android Platform. Google Inc., San Francisco, September 2010.
- HyberLoc: Physical Layer Location Privacy in Hybrid Sensor Networks. MIT, June 2010.
- Recent Developments in Localization Systems. First Workshop on Mobile Computing Systems and Applications, IT Sector Board in the Supreme Council of Universities, Cairo, Egypt, October, 2010.
- Recent Developments in Localization Systems. IEEE Day, Alexandria, Egypt, October 2010.
- CellSense: An Accurate Energy-Efficient Localization for GSM Networks, Google Faculty Summit, Switzerland, February 2010.
- Location Determination Systems for Wireless Networks, Qualcomm Inc., San Francisco, October 2009.
- Wireless Sensor Networks. IEEE's "Interact with Today's World", Bibliotheca Alexandrina, Egypt, 2009.

- Location Determination Technologies. VT-MENA, Alexandria, Egypt, 2009.
- Challenges: Device-free Passive Localization for Wireless Environments. The Symposium on Computational Intelligence and smart Environments, GUC, Egypt, July 2009.
- Device-free Passive Localization for Wireless Environments. Google Inc., San Francisco, September 2008.
- Device-free Passive Localization for Wireless Environments. Ohio State University, September 2008.
- Device-free Passive Localization for Wireless Environments. Ubiquitous Computing: Sensor and Wireless Sensor Networks Workshop, Cairo, Egypt, December 2008.
- Security for Ubiquitous Computing. Virginia Tech, March 2007.
- Security in Location Determination Techniques: Are you where you say you are? Virginia Tech, April 2006.
- The Horus WLAN Location Determination System. Old Dominion University, December 2005.
- Location Determination Systems for Sensor Networks. University of Maryland, Baltimore County, November 2005.
- The Horus WLAN Location Determination System. Catholic University of America, March 2005.
- Horus: A WLAN-Based Indoor Location Determination System. Rutgers University, October 2004.
- Horus: A WLAN-Based Indoor Location Determination System. University of Maryland, Baltimore County, September 2004.
- Horus: A WLAN-Based Indoor Location Determination System. Alexandria University, Egypt, January 2004.
- A Tutorial for the 802.11 Standard. Alexandria University, Egypt, January 2003.
- A Tutorial for the 802.11 Standard. Syschat, University of Maryland at College Park, October 2001.

HONORS AND AWARDS

- ACM Distinguished Scientist, November 2015.
- ACM Distinguished Speaker, December 2013-Present.
- The Common Market for Eastern and Southern Africa (COMESA) 2015 Innovation Award.
- Alexandria University's Commemorative Medal, 2015.
- The 2013 Dr. Venice Kamel Gouda Award for Innovative Technologies.
- Best Paper Award, The 2013 ACM SIGSpatial GIS Conference.
- The Common Market for Eastern and Southern Africa (COMESA) 2013 Innovation Award.
- Best Computing and Information Technology Research Programme, The Joint Qatar Foundation Annual Research Forum and Arab Expatriate Scientists Network Symposium, November 2013.
- Best Computing and Information Technology Research Programme, The Joint Qatar Foundation Annual Research Forum and Arab Expatriate Scientists Network Symposium, October 2012.
- Egyptian State Award for Engineering Sciences, June 2012.
- Scientific American Magazine: "Mixed Signals: Smart Phone Sensors Recruited to Deliver Indoor GPS," UnLoc work cited, July 2012.
- TWAS-AAS-Microsoft 2010 Award, November 2010.

- The Seventeenth ACM Annual International Conference on *Mobile Computing and Networking* (Mobicom'11): Third place winner, ACM SIGMobile graduate student research competition, September 2011.
- Listed, Who's Who in the World, 2011.
- Listed, Who's Who Among Executives and Professionals: 2011 as "one of the leading achievers from around the globe".
- The IEEE Transactions of Parallel and Distributed Systems: Spotlight Paper for the December 2009 issue.
- The Fifteenth ACM Annual International Conference on *Mobile Computing and Networking* (Mobicom'09): Second place winner, ACM SIGMobile undergraduate student research competition, September 2009.
- The Thirteenth ACM Annual International Conference on *Mobile Computing and Networking* (Mobicom'07): Most popular challenge paper award, September 2007.
- The 2006 IEEE GLOBECOM Conference: Best paper runner-up, December 2006.
- Washington Times Newspaper: "Technology of Tracking," Horus work cited, March 10, 2005.
- Scientific American Magazine: "Seeking Better Web Searches," Rover work cited, February 2005.
- Marquis Who's Who in America: Listed with Biography in "Who is Who in America 2005".
- Office of Technology Commercialization, University of Maryland: Invention of the year award for the Horus work, April 2004.
- National Science Foundation: InfoCom 2004 Travel Grant.
- New York Times Newspaper: "Where Is Everybody? The Wireless Network Might Know," Horus work cited, June 19 2003.
- University of Maryland, College Park: Elected member for the honor society Phi Kappa Phi, April 2002.
- ACM SigComm: Travel grant, 2002.
- University of Maryland, College Park: Graduate Fellow, Computer Science Department, 2000-2004.
- Egyptian Ministry of Education: Taha Hussien Medal of Honor, August 1999.
- Alexandria University, Egypt: Prof. Abdelsamie Moustafa award, and Prof. Naim Aboutaleb award, June 1997. (for being ranked first on the Faculty of Engineering and the Computer Science Department respectively)
- General Egyptian Society For the Talented: Society Certificate of Honor, August 1997.
- PC-World Middle East Magazine: First prize in the annual contest of the Magazine, June 1994-1996.
- Alexandria University, Egypt: Faculty Certificate of Honor, 1993-1997.
- Egyptian Ministry of Education: Ministry Certificate of Honor, August 1992. (For being ranked Third Nationwide in the General Secondary School Certificate exam)

(a) Issued

1. Method and System for Determining User Location in a Wireless Communication Network
Moustafa Youssef and Ashok Agrawala
(Invention of the year award 2003, Office of Technology Commercialization, UMD)
U.S. patent no 7,406,116, issued July 29, 2008.
2. Energy-Aware Network Management
Mohamed Younis , Moustafa Youssef, and Khaled Arisha
US-Patent no. 7,277,414, issued October 2, 2007.

(b) Pending

1. Fine-Grained Indoor Location-Based Social Network
Moustafa Mahmoud Elhamhary and Moustafa Amin Youssef
Patent Application No: 2014/620,04559, USA.
2. A Method and System for Crowd Sensing to be used for Automatic Semantic Identification
Moustafa Amin Youssef, Anas M. Basalamah, and Heba Aly
Patent Application No: 20,150,285,639, USA.
3. A method and system for an accurate energy-efficient outdoor localization on a mobile device
Moustafa Amin Youssef and Heba Aly,
Patent Application No: 2015/146,36095, USA.
4. A method and system for an accurate and energy efficient vehicle lane detection
Moustafa Amin Youssef, Anas M. Basalamah, and Heba Aly
5. Zero-Calibration Accurate RF-Based Localization System for Realistic Environments
Moustafa Youssef and Rizanne Mamdouh
US Patent Application No: 62/081,239, 2014
6. A Non-Invasive RF-Based Breathing Estimator
Moustafa Youssef, Heba Abdelnasir, and Khaled Harras
Patent Application No. 62/055,129, USA, 2014.
7. Unsupervised Indoor Localization and Heading Direction Estimation
R. R. Choudhury, H. Wang, N. Roy, S. Sen, Moustafa Youssef, A. Elgohary, and Moustafa Farid
Patent Application No: 2013/069,178, USA.
8. Towards Dynamic Real-Time TV White Spaces
Mohammed Ibrahim, Ahmed Saeed, Moustafa Youssef, and Khaled Harras
Patent Application No. 61/850,410, USA.
9. Optimal Energy Efficient Bandwidth Aggregation System
Karim Habbak, Moustafa Youssef, and Khaled Harras
Patent Application No. 20,140,226,549, USA.
10. ARQ Secrecy: From Theory to Practice
Hesham El Gamal, Moustafa Youssef and Yara Omar
Patent Application No. 61/249,435, USA.
11. Wireless Security Protocol
Hesham El Gamal, Moustafa Youssef and Yara Omar
Patent Application No. 13/501,037, USA, Filed April 9, 2012.
12. Method and system for providing physical security in an area of interest
Leila Shahamatdar, Moustafa Youssef and Ashok Agrawala
Patent application no. 10/916,545, USA, Filed August 12, 2004.

MEMBERSHIPS AND
PROFESSIONAL
ROLES

- ACM Distinguished Scientist, November 2015.
- ACM Distinguished Speaker, December 2013-Present.
- Senior Member: IEEE, July 2009-present.
- Member: ACM, IEEE Computer Society, IEEE Communication Society, ACM SigMobile, International Society on Modelling and Simulation, The International Association of Science and Technology for Development (IASTED) Technical Committee, and Egyptians Syndicate Professional Engineers society.
- Elected member, Phi Kappa Phi.
- Life member: General Egyptian Society For Talented.

Teaching and Students' Supervision

COURSES
TAUGHT (LAST 5
YEARS)

Note: The university currently accepts graduate students only. Undergraduate admission will start in fall 2017.

Sem	Course	Title
F15	CSE 618	Advanced Computer Networks
S14	CSE 618	Advanced Computer Networks
S14	CSE 701	Project-based Learning in Computer Systems
S13	CSE 704	Seminars on Advanced Topics in Software Systems
S13	CSE 618	Advanced Computer Networks
S13	CSE 703	Project-based Learning in Software Systems
F12	CSE 618	Advanced Computer Networks
S12	CSE 515	Mobile Computing
S12	CSE 701	Project-based Learning in Computer Systems
F11	CSE 702	Seminars on Advanced Topics in Computer Systems I
S11	CSE 515	Mobile Computing
F10	CSE 701	Project-based Learning in Computer Systems
F10	CSE 608	Queuing Theory

DOCTORAL
STUDENTS

Note: The majority of Egyptian students take their Ph.D. from international universities.

- Mostafa Elhamshary, Egypt-Japan University of Science and Technology 2017, **Now Specially Appointed Assistant Professor, Graduate School of Information Science and Technology, Osaka University, Japan** (Main Advisor).
- Markus Scholz, Karlsruhe Institute of Technology, Germany, 2015, Now Co-founder of Novel-Sense UG, Germany (Co-Advisor).
- Nada Elshennawy, Tanta University 2014, Egypt, **Now Assistant Professor at Tanta University, Egypt** (Co-Advisor).
- Ramy Eltrass, Ph.D., Virginia Tech, USA, 2011, **Now Assistant Professor Arab Academy for Science and Technology, Egypt** (Co-Advisor).
- Hoda Mamdouh Hassan, Ph.D., Virginia Tech, USA, 2010, Now Lecturer at the British University, Egypt (Co-Advisor).

MASTER STUDENTS

- Ali Abdelgalil, 2016, Now Ph.D. Student, Egypt-Japan University of Science and Technology, Egypt.
- Ahmed Osama, 2013 (Nile University), Now Ph.D. Student, University of California, Riverside, USA.
- Reem Abdelkader, 2012, Ph.D. from Egypt-Japan University of Science and Technology, **Now Assistant Professor, Tanta University, Egypt**.
- Moustafa Elantot, 2012, Now Ph.D. Student, University of California Los Angeles, USA.
- Amal Youssef, 2012, Now Ph.D. Student, Utah University, USA.
- Karim Habak, 2012, Now Ph.D. Student, Georgia Tech, USA.
- Reem Yousry, 2012 (Alexandria University), Now Ph.D. Student, University of Minnesota, USA.
- Eman Ramadan, 2012 (Alexandria University), Now Ph.D. Student, University of Minnesota, USA.
- Mariam Moustafa, 2012 (Alexandria University), Now Software Engineer at Tech World, Egypt.
- Mohamed Ibrahim, 2011 (Nile University), Now Ph.D., Rutgers University, USA.

- Hesham Mekky, 2011 (Alexandria University), Now Ph.D. Student, University of Minnesota, USA.
- Mohamed Elsabagh, 2011 (Nile University), Now Ph.D. Student, George Mason University, USA.
- Islam Elbiltagy, 2011 (Alexandria University), Now Ph.D. Student, University of Texas at Austin, USA.
- Rania Elbadry, 2010 (Nile University), Now at Vodafone, Egypt.
- Yara Abdallah, 2010 (Nile University), Now Ph.D. Student, Ohio State University, USA.
- Mohamed Amir Youssef, 2010 (Alexandria University), Ph.D. from Max Planck Institute, Germany, Now Software Engineer at Google, Germany.
- Moustafa Seifeldin, 2010 (Nile University), Now at Qualcomm, USA.
- Karim Aboelmakarim, 2009 (Nile University), Ph.D. from Ohio State University, Now Post-doctoral Scholar, University of California Riverside, USA.
- Aly Elgamal, M.Sc. 2009 (Nile University), Ph.D. from University of Illinois Urbana-Champaign, Now **Assistant Professor, Department of Electrical and Computer Engineering, Purdue University, USA.**

RESEARCHERS

- Heba Aly, Researcher 2012-2015, Now Ph.D. Student at the University of Maryland at College Park, USA.
- Ahmed Saeed, Researcher 2009-2013, Now Ph.D. Student, Georgia Tech, USA.
- Ahmed Kosba, Researcher 2009-2013, Now Ph.D. Student at the University of Maryland at College Park, USA.
- Ahmed Abdelkadir, Researcher 2009-2013, Now Ph.D. Student at the University of Maryland at College Park, USA.
- Waleed Ammar, Researcher 2009-2010, Ph.D. from Carnegie Mellon University, Now Research Scientist at Allen Institute for Artificial Intelligence, USA.
- Ahmed Eldawy, Researcher 2009-2010, Ph.D. from University of Minnesota, **Now Assistant Professor at University of California Riverside, USA.**

EXTERNAL EXAMINER

- Ph.D. Examiner, The University of New South Wales, Sydney, Australia 2016.
- Ph.D. Examiner, The University of New South Wales, Sydney, Australia 2013.

Service

ADMINISTRATIVE
SERVICE

(a) Departmental Committees

- Faculty Hiring Committee, 2010-Present.
- Graduate Students Recruiting Committee, 2010-Present.
- Curriculum Development Committee, 2010-Present.

(b) School and University Committees

- Tenure and Promotion Policy Committee, 2014-Present.
- University Council Member, 2014-Present.
- Research Council Member, 2013-Present.
- Education Council Member, 2016-Present.
- School Council Member, 2013-Present.

(c) Administrative Positions

- Founder and Director, The Wireless Research Center of Excellence, 2013-Present.

PROFESSIONAL
SERVICE

(a) Funding Agencies Reviews:

- Qatar National Research Funds, 2009-2012.
- Romanian National Council for Research and Development, 2011.
- Egyptian National Telecommunication Regulatory Authority Research Funds, 2009-2016.
- Egyptian Information Technology Academia Collaboration Program, 2013-2016.

(b) NSF and Professional Societies Workshops:

- SIGMOBILE visioning workshop, New York, USA. November 2016.
- NSF DriveSense'14 Workshop, Norfolk, Virginia, USA. October 2014.
- US-Egypt Cyber Security Workshop, Smart Village, Egypt, May 2013.
- NSF workshop on Networking research collaboration, Istanbul, Turkey, June 2012.

(c) Editorial Boards:

- Associate Editor, ACM Transactions on Spatial Algorithms and Systems (TSAS), 2013- present.
- Area Editor, ACM Mobile Computing and Communications Review, 2010-2014.
- Guest Editor, Springer GeoInformatica Journal - Special issue on Mobile Computing Support for Geospatial Systems.
- Co-Guest Editor, ACM/Springer Mobile Networks & Applications (MONET), Special Issue on Mobile and Ubiquitous Systems - Best papers from Mobiquitous 2016.
- Co-Guest Editor, The IEEE Journal on Selected Areas in Communications, Special Issue on Mission-Critical Networking.

(d) Steering Committees Membership:

- Steering Committee Member, the ACM International Conference on Pervasive Computing Advances & Applications (PerCAA).
- Steering Committee Member, Egyptian Internet of Things Forum.
- Scientific Council, Egyptian Center for the Advancement of Science, Technology and Innovation (ECASTI).
- Advising Committee, IEEE Alexandria Student Branch Interact with Today's World Conference (ITW'13).

(e) Conferences Organizing Roles and Chairing:

- General Chair, Mobiquitous 2014. In cooperation with the ACM, SIGAPP, SIGBED; and cosponsored by IEEE and IEEE Computer Society.
- Keynote Speaker, the 8th ACM SIGSPATIAL Workshop on Indoor Spatial Awareness (ISA 2016), In Conjunction with the 24th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2016).
- Keynote Speaker, the 5th Workshop on Contact-Free Ambient Sensing, Localization and Tracking; in conjunction with Fourteenth IEEE International Conference on Pervasive Computing and Communications (PERCOM'16).
- TPC Co-Chair, Mobiquitous 2016.
- ACM Students Research Competition Grand Finals Evaluator, 2017.
- General Co-Chair, International Workshop on Cooperation, Operation, Privacy and Safety in the IoT Universe (IoT-COPS '17).
- Program Co-Chair for Advances in Networking and Sensor Networks Track, the 2017 ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-17).
- Program Co-Chair for Networking, Sensor Networks, Mobile Computing Track, the 2016 ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-16).
- Program Co-Chair for Networking, Sensor Networks, Mobile Computing Track, the 2015 ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-15).
- Track Chair, The First International Workshop on Mobile Sensing, Computing and Communication (MSCC 2014), co-located with Mobihoc 2014.
- Students Research Competition Chair, the First ACM SIGSPATIAL Students Research Competition, 2106.
- Publicity Co-Chair, ACM MobiSys 2016.
- Session Chair, The 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL 2015).
- Workshop Co-Chair, The 19th International Conference on Mobile Computing and Networking (MobiCom 2013).

- Session Chair, The 19th International Conference on Mobile Computing and Networking (MobiCom 2013).
- Program Co-Chair, The Fourth ACM International Workshop on Device-Free Radio-Based Recognition (CoSDEO13), co-located with UbiComp 2013.
- Session Chair, The Seventh ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH12), co-located with MobiCom 2012.
- Session Chair, MobiCom 2012.
- Session Chair, The Seventh ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH12), co-located with MobiCom 2012.
- Program Co-Chair, The Seventh ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH12), co-located with MobiCom 2012.
- Workshop Chair, the 2012 ACM SIGMOBILE/ USENIX International Conference on Mobile Systems, Applications, and Services (MobiSys 2012).
- Session Chair, IEEE WCNC 2012.
- Technical Program Committee Co-Chair, the 2011 Workshop of Collaborative, Autonomic, and Resilient Defenses for Cyber Physical Systems (CyPhyCARD 2011), in conjunction with CollaborateCom 2011.
- Session Chair, MobiCom 2011.
- Poster/Demo Chair, the 2011 ACM SIGMOBILE/ USENIX International Conference on Mobile Systems, Applications, and Services (MobiSys 2011).
- Associate Vice Program Chair for Wireless Systems and Sensor Networks, the 2011 ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-11).
- Session Chair, Globecom 2010.
- Session Chair, MobiCom 2010.
- Session Chair, Infocom 2010.
- Program Co-Chair, The Second IEEE International Workshop on Intelligent Pervasive Devices (PerDev09), co-located with Percom 2009.
- Program Co-Chair, The IEEE International Workshop on Mission Critical Networks (MCN 2008), co-located with Infocom 2008.
- Program Co-Chair, The First IEEE International Workshop on Power-Aware Pervasive Devices (PerDev2008), co-located with Percom 2008.
- Session Chair, Infocom 2008.
- Student demo judge, The Thirteenth Annual International Conference on *Mobile Computing and Networking* (MobiCom 07).
- Program Co-Chair, The IEEE First International Workshop on Research Challenges in Next Generation Networks for First Responders and Critical Infrastructures (NetCri 2007).

- Publicity Co-Chair, Second IEEE Workshop on Dependability and Security in Sensor Networks and Systems (DSSNS'2006).
- Session Chair, The Second Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services (MobiQuitous 2005) July 17-21, 2005, San Diego, California.
- Publicity Chair, Wireless Networks, Communications and Mobile Computing Conference, Symposium on Mobile Computing (WirelessCom) 2005.

(f) Technical Program Committees Membership:

- Technical Program Committee member, the 16th IEEE International Conference on Pervasive Computing and Communications (PerCom 2018).
- Advisory Technical Program Committee member, the 38th IEEE International Conference on Computer Communications INFOCOM 2018 (INFOCOM'17).
- Technical Program Committee member, the 15th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2018.
- Technical Program Committee member, ACM SIGSPATIAL GIS 2017.
- Technical Program Committee member, the 15th ACM International Conference on Mobile Systems, Applications, and Services (MOBISYS'17).
- Technical Program Committee member, the 37th IEEE International Conference on Computer Communications INFOCOM 2017 (INFOCOM'17).
- Technical Program Committee member, the 15th IEEE International Conference on Pervasive Computing and Communications (PerCom 2017).
- Technical Program Committee member, the 14th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2017.
- Technical Program Committee member, The 18th IEEE International Conference on Mobile Data Management (MDM'17).
- Technical Program Committee member, the 6th International Workshop on Mobile Entity Localization, Tracking and Analysis (MELT), co-located with ACM SIGSPATIAL 2016.
- Technical Program Committee member, ACM SIGSPATIAL GIS 2016.
- Technical Program Committee member, the 14th IEEE International Conference on Pervasive Computing and Communications (PerCom 2016).
- Technical Program Committee member, the 36th IEEE International Conference on Computer Communications INFOCOM 2016 (INFOCOM'16).
- Technical Program Committee member, the 13th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2016.
- Technical Program Committee member, The 36th IEEE International Conference on Distributed Computing Systems (ICDCS 2016).
- Technical Program Committee member, IEEE WCNC 2016 - Applications Track.

- Technical Program Committee member, IEEE WCNC 2016 - Mobile and Wireless Networks track
- Technical Program Committee member, The 9th IEEE International Conference on Cyber, Physical, and Social Computing (CPSCoM 2016).
- Technical Program Committee member, Information Technology and Society Conference, 2017.
- Technical Program Committee member, Evaluating Ambient Assisted Living Systems through competitive benchmarking (EvAAL 2015)- Indoor localization track.
- Technical Program Committee member, The 12th International Wireless Communications & Mobile Computing Conference (IWCMC 2016).
- Technical Program Committee member, IEEE Globecom 2016.
- Technical Program Committee member, the 12th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2015.
- Technical Program Committee member, ACM SIGSPATIAL GIS 2015.
- Technical Program Committee member, the 35th IEEE International Conference on Computer Communications INFOCOM 2015 (INFOCOM'15).
- Technical Program Committee member, the 13th IEEE International Conference on Pervasive Computing and Communications (PerCom 2015).
- Technical Program Committee member, Mobiquitous 2015
- Technical Program Committee member, the International Wireless Communications and Mobile Computing Conference (IWCMC 2015).
- Technical Program Committee member, the Seventh International Conference on Mobile Computing, Applications and Services (MobiCASE), 2015.
- Technical Program Committee member, ACM SIGSPATIAL GIS 2014.
- Technical Program Committee member, the 20th International Conference on Mobile Computing and Networking (MobiCom'14).
- Technical Program Committee member, the 34th IEEE International Conference on Computer Communications INFOCOM 2014 (INFOCOM'14).
- Technical Program Committee member, the 11th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2014.
- Technical Program Committee member, the 10th International Conference on Cognitive Radio Oriented Wireless Networks (CrownCom2015).
- Technical Program Committee member, the 2014 ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-14).
- Technical Program Committee member, the 2nd Workshop on Mobile Applications for Behavioral Analytics and Tracking (MABAT) 2014 in conjunction with The 13th International Conference on Mobile and Ubiquitous Multimedia.

- Technical Program Committee member, The Ninth ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH14), co-located with MobiCom 2014.
- Technical Program Committee member, the Sixth International Conference on Mobile Computing, Applications and Services (MobiCASE), 2014.
- Technical Program Committee member, IEEE Globecom 2014- Wireless Networking Symposium (Globecom'14-CogRN).
- Technical Program Committee member, IEEE Globecom 2014- Wireless Networking Symposium (Globecom'14-WN).
- Technical Program Committee member, IEEE WCNC 2014 - SAB Track.
- Technical Program Committee member, the 10th IEEE International Wireless Communication and Mobile Computing (IWCMC'14-MC).
- Technical Program Committee member, the fourth International Conference on Pervasive and Embedded Computing and Communication Systems (PECCS 2014).
- Technical Program Committee member, the 15th IEEE International Conference on Mobile Data Management (MDM 2014).
- Technical Program Committee member, Workshop on Mobile Cloud Computing, In Conjunction with the 34rd IEEE International Conference on Computer Communications INFOCOM 2014 (INFOCOM'14).
- Panelist, "Indoor Localization - Ready for Prime time?", The 19th International Conference on Mobile Computing and Networking (MobiCom 2013).
- Technical Program Committee member, ACM SIGSPATIAL GIS 2013.
- Technical Program Committee member, the 19th International Conference on Mobile Computing and Networking (MobiCom'13).
- Technical Program Committee member, the 11th IEEE International Conference on Pervasive Computing and Communications (PerCom 2013).
- Technical Program Committee member, the 33rd IEEE International Conference on Computer Communications INFOCOM 2013 (INFOCOM'13).
- Technical Program Committee member, the 10th International Conference on Mobile Ad hoc and Sensor Systems (MASS'13).
- Technical Program Committee member, The Eighth ACM International Workshop on Wireless Network Testbeds, Experimental evaluation and Characterization (WiNTECH13), co-located with MobiCom 2013.
- Technical Program Committee member, Evaluating Ambient Assisted Living Systems through competitive benchmarking (EvAAL 2013)- Indoor localization track.
- Technical Program Committee member, the The 9th International Wireless Communications & Mobile Computing Conference (IWCMC 2013).
- Technical Program Committee member, IEEE Globecom 2013-Ad-hoc and Sensor Networking Symposium (Globecom'13-AHSN).

- Technical Program Committee member, IEEE Globecom 2013-Cognitive Radio and Networks Symposium Symposium (Globecom'13-CogRN).
- Technical Program Committee member, IEEE ICC'13 WN (ICC 2013 Wireless Networking Symposium).
- Technical Program Committee member, IEEE ICC'13 AHSN (ICC 2013 Ad-hoc and Sensor Networking Symposium).
- Evaluator, Romanian National Council for Research and Development.
- Panelist, "Smartphones, Tablets, and Mobile Devices are Geostreaming", ACM SIGSPATIAL International Workshop on GeoStreaming (IWGS) 2012, In Conjunction with ACM SigSPATIAL GIS 2012.
- Technical Program Committee member, IEEE/ACM International Conference on Connected Vehicles & Expo (ICCVE 2012).
- Technical Program Committee member, the 18th International Conference on Mobile Computing and Networking (MobiCom'12).
- Technical Program Committee member, the 32nd IEEE International Conference on Computer Communications INFOCOM 2012 (INFOCOM'12).
- Technical Program Committee member, the 9th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2012.
- Technical Program Committee member, ACM SIGSPATIAL GIS 2012.
- Technical Program Committee member, the 8th International Wireless Communications and Mobile Computing Conference (IWCMC-2012).
- Technical Program Committee member, IEEE Globecom 2012-Ad-hoc and Sensor Networking Symposium (Globecom'12-AHSN).
- Technical Program Committee member, the PIMRC2012 Mobile and Wireless Networks Track.
- Technical Program Committee member, the PIMRC2012 Services, Applications, and Business Track.
- Technical Program Committee member, the 18th International Conference on Informatics and Systems (Infos 2012).
- Technical Program Committee member, the 2012 JapanEgypt Conference on Electronics, Communications and Computer.
- Technical Program Committee member, ACM SIGSPATIAL GIS 2011.
- Technical Program Committee member, IEEE ICC'12 WNS (ICC 2012 Wireless Networking Symposium).
- Technical Program Committee member, IEEE WCNC 2012 - SAB Track.
- Technical Program Committee member, the 17th International Conference on Mobile Computing and Networking (MobiCom'11).
- Technical Program Committee member, the 31st IEEE International Conference on Computer Communications INFOCOM 2011 (INFOCOM'11).

- Technical Program Committee member, the 8th Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2011.
- Technical Program Committee member, IEEE ICC'11 WNS (ICC 2011 Wireless Networking Symposium).
- Technical Program Committee member, the third ACM SIGSPATIAL International Workshop on Location-Based Social Networks (LBSN 2011).
- Technical Program Committee member, WWW 2011 - Web for Emerging Regions.
- Technical Program Committee member, IEEE WCNC 2011 - Service & Application Track.
- Technical Program Committee member, IEEE Globecom 2011-Ad-hoc and Sensor Networking Symposium (Globecom'11-AHSN).
- Technical Program Committee member, The Fifth International Conference on COMMunication System softWARE and middlewaRE (COMSWARE 2011).
- Technical Program Committee member, the 16th International Conference on Mobile Computing and Networking (MobiCom'10).
- Technical Program Committee member, the 30th IEEE International Conference on Computer Communications INFOCOM 2010 (INFOCOM'10).
- Technical Program Committee member, ACM SIGSPATIAL GIS 2010.
- Technical Program Committee member, The Second International Conference on Emerging Network Intelligence (EMERGING 2010).
- Technical Program Committee member, the third International Telecommunication Union Conference, Kaleidoscope 2010.
- Technical Program Committee member, IEEE Globecom 2010-Communication & Information System Security (Globecom'10-CIS).
- Student Research Competition Committee member, the 15th ACM Annual International Conference on Mobile Computing and Networking 2009 (MobiCom'09).
- Technical Program Committee member, the 29th IEEE International Conference on Computer Communications INFOCOM 2009 (INFOCOM'09).
- Technical Program Committee member, ACM SIGSPATIAL GIS 2009.
- Technical Program Committee member, IEEE ICC 2010 - Wireless and Mobile Networking Symposium (ICC'10-WNS).
- Technical Program Committee member, IEEE ICC 2010 - Ad-hoc, Sensor and Mesh Networking Symposium (ICC'10-AHS).
- Technical Program Committee member, IEEE Globecom 2010 - Ad Hoc and Sensor Networks Symposium (Globecom'10-ASNS).
- Technical Program Committee member, IEEE WCNC 2010 - Service & Application Track.
- Technical Program Committee member, Third International Conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications (MobilWare'10).

- Technical Program Committee member, IEEE Globecom 2009 - Ad Hoc Sensor and Mesh Networking Symposium (Globecom'09-AHSN).
- Technical Program Committee member, IEEE ICC 2009 - Ad-Hoc and Sensor Networking Symposium (ICC'09-AHSNET).
- Technical Program Committee member, IEEE ICC 2009 - Wireless Networking Symposium (ICC'09-WN).
- Technical Program Committee member, The 5th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC'09) - Context-aware Mobile Computing Track.
- Technical Program Committee member, Second International Conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications (MobilWare 09).
- Technical Program Committee member, The IEEE Local Computer Networks Conference (LCN 2009).
- Technical Program Committee member, the 17th International Conference on Telecommunications - Ad-hoc and Sensor Communications Track.
- Technical Program Committee member, The 5th IEEE LCN Workshop on Security in Communication Networks (SICK) in conjunction with the IEEE Local Computer Networks Conference (LCN 2009).
- Technical Program Committee member, The First International Conference on Emerging Network Intelligence (EMERGING 2009).
- Technical Program Committee member, the 28th IEEE International Conference on Computer Communications INFOCOM 2008 (INFOCOM'08).
- Technical Program Committee member, IEEE ICC 2008 - Wireless Networking Symposium (ICC'08-WN).
- Technical Program Committee member, IEEE Globecom 2008 - Ad Hoc Sensor and Mesh Networking Symposium (Globecom'08-AHSN).
- Technical Program Committee member, IFIP/TC6 Networking 2008 Conference.
- Technical Program Committee member, The IEEE Local Computer Networks Conference (LCN 2008).
- Technical Program Committee member, The 17th IEEE International Conference on Computer Communications and Networks (IC3N08).
- Technical Program Committee member, The 1st IEEE International Workshop on Sensor Networks (SN 2008), In Conjunction with IC3N.
- Technical Program Committee member, The 6th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-08 Networking and Multimedia Track).
- Technical Program Committee member, The 1st ACS/IEEE International Workshop on Wireless Internet Services (WiSe 2008).
- Technical Program Committee member, The Third International Conference on Digital Telecommunications (ICDT 2008).

- Technical Program Committee member, First International Conference on MOBILE Wireless MiddleWARE, Operating Systems, and Applications (MobilWare 08).
- Technical Program Committee member, MM-CSC 2008 (Mosharaka Multi-Conference on Communications, Signals and Coding).
- Technical Program Committee member, IEEE Globecom 2007 - Ad Hoc and Sensor Networks Symposium (Globecom'07-ASNS).
- Technical Program Committee member, IEEE ICC 2007 - Wireless Adhoc and Sensor Networks Symposium (ICC'07-WAS).
- Technical Program Committee member, The IEEE Local Computer Networks conference (LCN 2007).
- Technical Program Committee member, The Seventh IEEE International Workshop on Wireless Local Networks (WLN 2007).
- Technical Program Committee member, the Second IEEE Workshop on Practical Issues in Building Sensor Network Applications (SenseApp 2007).
- Technical Program Committee member, The 2007 IEEE International Conference on Information Reuse and Integration (IEEE-IRI'07).
- Technical Program Committee member, The 3rd International Conference on Embedded Software and Systems (ICCESS 2007).
- Technical Program Committee member, The 16th IEEE International Conference on Computer Communications and Networks (IC3N07).
- Technical Program Committee member, IFIP/TC6 Networking 2007 Conference.
- Technical Program Committee member, IEEE IPCCC 2007.
- Technical Program Committee member, IEEE ICDCS 2007 - Network Protocols Track.
- Technical Program Committee member, IEEE Globecom 2006 - Wireless Ad Hoc and Sensor Networks - towards Anytime Anywhere Internetworking (Globecom'06-WASNet).
- Technical Program Committee member, The 15th IEEE International Conference on Computer Communications and Networks (IC3N06).
- Technical Program Committee member, IEEE International Conference on Wireless Networks, Communications, and Mobile Computing (WirelessCom 2006), Symposium on Mobile Computing 2006.
- Technical Program Committee member, the First IEEE Workshop on Practical Issues in Building Sensor Network Applications (SenseApp 2006).
- Technical Program Committee member, International Conference on Digital Telecommunications (ICDT'06), August 30-31, 2006, Côte d`Azur, France.
- Technical Program Committee member, IEEE Advanced Information Networking and Applications (AINA2006), Mobile Networks and Applications track.
- Technical Program Committee member for Networks and Communication Systems (NCS 2006).

- Technical Program Committee member, IEEE International Conference on Computer Communications and Networks (IC3N) 2005.
- Technical Program Committee member, IEEE International Conference on Wireless Networks, Communications, and Mobile Computing (WirelessCom 2005), Symposium on Mobile Computing 2005.
- Technical Program Committee member, IEEE International Symposium on Personal Indoor and Mobile Radio Communications (PIMRC) 2005.
- Technical Program Committee member, The Ninth IASTED International Conference on Internet, Multimedia Systems and Applications (IMSA 2005).
- Technical Program Committee member, Workshop on Internet Compatible QoS in Ad hoc Wireless Networks (IC-QAWN) 2005.

(g) Journal Reviews:

- Reviewer, IEEE/ACM Transactions on Networking, IEEE Transactions on Computers, IEEE Transactions on Mobile Computing, IEEE Transactions on Wireless Communications, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Vehicular Technology, IEEE Transactions on Signal Processing, IEEE Signal Processing Letters, ACM Transactions on Embedded Computing Systems, Proceedings of the IEEE, IEEE Journal on Selected Areas of Communication, ACM Mobile Computing and Communications Review, Wireless Networks, Elsevier Journal of Computer Networks, IEEE Pervasive Computing, Elsevier Journal of Ad Hoc Networks, IEEE Wireless Communications Magazine, IEEE Wireless Communications Letters, IEEE Communications Letters, Elsevier Journal of Network and Computer Applications, Elsevier Computer Communications, Elsevier Pervasive and Mobile Computing, Mobile Networks and Applications journal, EURASIP Journal on Wireless Communications and Networking, Journal of Computing, International Journal of Security and Networks, Journal of Computer and System Sciences, IEEE ICNP, ACM/Usenix MobiSys, IEEE PerCom, IEEE Globecom, IEEE VTC, ACM WiSe, IEEE ICC, IEEE WCNC, IEEE RIDE, ACM/IEEE MSWiM 2005, SensorFusion Workshop, IEEE PIMRC, IEEE IWCMC, IEEE IPSN, IASTED International Conference on Communication Systems.