Ibrahim Kamel

Current and Recent Positions

- Currently **Professor** at the Department of Computer Engineering
- **Professor and Chairman** of the Department of Computer Engineering   2019
  Establishing two new programs:
  - ✓ B.Sc. in Cybersecurity Engineering
  - ✓ M.Sc. in Cybersecurity Engineering
  - ✓ Reaccreditation M.Sc. in Computer Engineering   Ministry accreditation

- **Chair,** committee to establish the new Computing and Informatics College   2018-2019.
- **Director** of the Institute of **Leadership in Higher Education**   2016-2018.
  The institute focuses on innovation in new teaching methods and pedagogical research. The institute offers two master programs, one in professional medical education and the other one in the leadership in higher education. The institute concerned on developing faculty members on the use of modern technology such as social media and mobile computers and adapting them to provide new teaching methods.
- **Chairman** of the Department of Electrical and Computer Engineering   2012-2016.
  University of Sharjah, UAE. Department consists of 24 faculty members, 10 staff members. Achievements:
  - ✓ B.Sc. in Electrical and Electronic Engineering   **ABET re-Accredited**
  - ✓ B.Sc. in Computer Engineering   **ABET re-Accredited**
  - ✓ M.Sc. in Electrical and Electronic Engineering   Ministry accreditation
  - ✓ M.Sc. in Computer Engineering   Ministry accreditation
  - ✓ Ph.D. In Electrical and Computer Engineering   Proposal **approved**, self-study
  - ✓ Growing from 13 faculty members to 24 faculty members.
- **Coordinator** of the Information and Network Security Research Group (INSRC), 2007-now. The research group consists of seven faculty members and couple of research assistants. The group carries research in information security and data privacy. The group has several research grants in the area of Cloud Security, Database Integrity, and Social Network Bullying.
  http://www.sharjah.ac.ae/en/Research/RISE/INSRC/Pages/ppl.aspx
- **Chair,** of the University Faculty affairs Committee **(Faculty Senate)**   2007-2010.

Research Interests:

Scholar index **_h-index = 38_** with 6425 citations

Information security, Information retrieval and indexing, Multimedia systems, Social network, Database management systems, Peer-to-Peer systems, Mobile data management, Sensor networking.

Education:

- **Ph.D.** Computer Science Dept., University of Maryland, College Park (*one of the top 10* universities in computer in USA).
- **M.Sc.** in Environmental Studies, University of Alexandria, Egypt.
- Graduate Diploma, Department of Computer Science and Automatic Control, College of Engineering, University of Alexandria, Egypt.
- **B.Sc.** with degree of honor, the Department of Computer Science and Automatic Control, College of Engineering, University of Alexandria, Egypt.

Teaching Experience:

- 2019-now **Professor** at the Department Computer Engineering, College of Computing and Informatics, UAE.
- 2011-2019 **Professor** at the Department of Electrical and Computer Engineering, University of Sharjah, UAE.
- 2005-2011 Associate Professor at the Department of **Electrical and Computer Engineering**, University of Sharjah, UAE.
- 2003 – 2005 **Associate Professor**, College of Information Systems, Zayed University, Dubai.
- 2007–2017 Adjunct Professor, Concordia Institute for Information Systems Engineering, CIISE, Concordia University, Montreal, Canada.
- 1999-2002 Adjunct Associate Professor, Department of Management Science and Information Science, Business School, **Rutgers University**, New Jersey, USA. Teaching both Master of Business Administration (MBA) and undergraduate classes
- 1998-1999 Adjunct Professor**:** Department of Computer Engineering, **Polytechnic University**, Brooklyn, New York, USA.
- 1991 - 1994 **Instructor**: Department Computer and Information Systems, Strayer University, Arlington, Virginia USA.

Research Experience:

- 1999-2003 **Lead Research Scientist**: *Panasonic Information and Networking Tech. Laboratory, Princeton, NJ, USA,* leading two groups (Smart Appliances research group and VoIP research group). ***Responsibility included***:
  - Prepare research proposals that are aligned with the company businesses and market.
  - Seek research fund by writing internal grants to development and business divisions inside the company. Group leader are supposed to secure at least 50% of the group budget from grant from factories and business divisions. I succeeded to attract more $750,000 in research grant per year for my group
  - Staff hiring, evaluation, and management
  - Prepare budget for the group (one-year, three-year and five-year)
- 1997 – 1999 **Senior Research Scientist**, *Panasonic Information and Networking Tech. Laboratory, Princeton, NJ, USA*
  - Led the design and the implementation of the distributed file system project
  - Member of the architecture team who designed Panasonic video server which later turned into non-linear editor product

- o Two of my patents are included in this design
- 1994 – 1996 **Research Scientist** at Matsushita Information Technology Lab, Princeton, NJ, USA.

Student Supervision:

- Manal Omar Alshohna, Robot Path planning, M.Sc. in Computer Engineering, University of Sharjah.
- Sidra Umair, Detection and mitigation of wormhole attacks in opportunistic mobile networks, M.Sc. Computer Engineering, University of Sharjah.
- Fatma Mohamed Gaber Elnabrisi, Efficient Execution of NN Spatial Queries on Cloud, M.Sc. Computer Engineering, University of Sharjah.
- Abdullah Mohammed Abdullah Al-Amodi, Two-cloud Architecture to Execute Queries on encrypted Spatial Data M.Sc. Computer Engineering, University of Sharjah.
- Hussam Mohamed, Transforming Towards Secure Global Trade for Customs Administrations Powered by Blockchain, Ph.D. in Information Systems, British University in Dubai (graduated August 2020).
- Tasneem Ghunaim, M.Sc. Computer Engineering, Protecting the Confidentiality of Outsourced Data on Clouds.
- Hassan Vakani, M.Sc. Electrical and Electronic Engineering, Towards Improving the Imperceptibility of Steganography Schemes: Adaptive Scaling Approach, University of Sharjah.
- Meshari Fareh, M.Sc. Computer Engineering, University of Sharjah, Detection of cyberbullying in Arabic messages using machine learning.
- Mohammed Saeed Bezyiad, M.Sc. Computer Engineering, University of Sharjah, Towards Optimal Utilization of Temporal Redundancy for Digital Video Applications (graduated May 2020).
- Kamal Abuqaaud, Ph.D. student, University of Sharjah, Autonomous Vehicle identification of traffic signs, Ph.D. Electrical and Computer Engineering, University of Sharjah, 2019- now.
- Nour AbdulRahman, M.Sc. In electrical and Electronic Engineering, University of Sharjah 2019-now.
- Ahmed Hassan, Ph.D. in Engineering Management, "Security Risks in Smart Cities", University of Sharjah, 2018-now.
- Osama AlKoky, M.Sc. student, University of Sharjah, "Searching Social Networks", (2013).
- Sara Darwish, M.Sc. in Computer Science, University of Sharjah, "Identifying influential people in Social Network", (Graduated 2014).
- Salma Banwan, M.Sc., "Hiding text inside plain English structures", Department of Electrical and Computer Engineering, University of Sharjah, UAE. (Graduated 2012).
- Maha Alaa Eldine, M.Sc. Computer Engineering, University of Sharjah, "Protecting the Integrity of Relational Databases", (Graduated 2014).

- Hakim Katouni, M.Sc., "Software security hardening and watermarking", Concordia Institute of Information Systems Engineering, Concordia University, Canada. (Graduated 2010).
- Fatima Anaqeep, M.Sc., "Efficient information retrieval in social network", British University in Dubai, UAE. (Graduated 2010)
- Sayed Hejazi, M.Sc.; Graduated April 2009; "Forensic analysis of windows physical memory", Concordia Institute of Information Systems Engineering, Concordia University, Canada (graduated April 2009).
- Hussam Gumma; M.Sc. "Development of security scheme for sensor network"; Department of Computer Science, University of Sharjah, UAE. (Graduated 2009)
- Ahmed Ghulam Mustafa; Graduated Dec 2008; M.Sc.; "Supporting range queries in Peer-to-Peer network"; Department of computer science, University of Sharjah, UAE. (Graduated 2008)
- Alaa El-Talmas (Ph.D. Student); "Arabic retrieval system for bibliographic and authority records in library automation systems"; Information System Institute, the University of Salford, UK.
- Thuraya Awad; M.Sc. Graduated May 2008; "Detecting similar and correlated behaviors in multiple data streams"; Department of computer science, University of Sharjah, UAE. (Graduated 2008)

Doctoral and Master Thesis Committee:

- Internal examiner, M.Sc. Antonios Kaissar, "Network Intrusion Detection using Optimized CNN Models", Department of Computer Engineering, 2021.

- Internal examiner, M.Sc. Asmaa Seyam, "Arabic False Information Detection Using Deep Learning Techniques", 2021.

- External examiner, Ph.D. Nagamalar, T., "Dynamic Mobile Sink Based QoS and Energy Efficient Routing Protocols for Homogenous Wireless Sensor Networks", Faculty of Information and Communication Engineering, Anna University, Chennai, 2017.
- Research Committee member, Waheeb-Yaqub, M.Sc. "Digital Watermarking Scheme for Columnar Databases", Masdar Institute, Abu Dhabi, UAE, April 2015.
- External Examiner, Rabiya Momin, M.Sc. "Brain Source Localization in the Presence of Leadfield Perturbations", American University in Sharjah, UAE, May 2015.
- Internal Examiner, Zahra Al Mousa "cl-CIDPS: A Cloud Computing Based Cooperative Intrusion Detection and Prevention System Framework", ECE, University of Sharjah, Dec 2014.
- External Examiner, Tahereh Zarghami, M.Sc., American University in Sharjah, UAE, 2012.
- External Examiner, Fatima E. Farag, Ph.D., "Stream Query Processing Using External Memory", University of Calgary, Feb 2011.

- External Examiner, Fatima Mohamed, M.Sc., Department of Computer Science, University of Sharjah, UAE, Graduated April 2007.
- Thesis Committee Member, Mahmoud Yousef, Ph. D., Management Science of Information Systems Rutgers University, USA; Graduated Nov 2004.

Recent Funded Projects:

2022-2024 Detection and Mitigation of Cyberbullying in Arabic Social Media, (PI, 175,000 Dhs).

2021-2023 Protecting copyrights of deep neural networks via digital watermarking (PI, **240,000 Dhs**, Skoltech University, **Russia**)

2018-2020 Data Delivery in Smart Cities: Exploring Idle Capacities of **IoT** Objects (**co-PI, 100,000 Dhs University of Sharjah**)

2019-2021 Exploiting Distributed Big Spatial Data to Facilitate Location-based Services (**co-PI, 200,000 Dhs University of Sharjah**), in collaboration with the College of Science.

2017-2019 Securing Spatial Data in the Cloud, (**PI, 200,000 Dhs University of Sharjah**)

2016 SHEMCS: Smart Home Energy Management and Conservation System, (**PI, 89,000 Dhs Emirates Foundation - extension**)

2015-2017 Progressively Trainable and Adaptable Intelligent Humanoid Robots for Autism Spectrum Disorders (**100,000 Dhs, University of Sharjah**)

2015 -2017   A data mining approach for detecting and tracking harmful environmental phenomena using WSN (**150,000 Dhs, University of Sharjah**) **Collaborators from the College of Science.**

2014 Environmental hazards monitor mobile system for patients with chronically diseases (**2,000,000 Dhs, Telecom Regularity Authority, ICT Fund, UAE) Multidisciplinary project with the Medical College**: The intellectual merit of this project is to develop a health monitoring system for modeling individual exposure to environmental triggers of Asthma attacks and analyzing the effectiveness of the model. The proposed health monitoring system gathers time/location data from patients through location aware devices such as GPS that are embedded in their cell phones. The system also collects various environmental measurements such as humidity level and smoke concentration through wireless sensors. The data collected by these location and sensor devices will be transmitted continuously through sensor and mobile networks to a

database server. Then, the developed analyses model at the server side will analyze the collected data using a spatio-temporal integration model to derive conclusions that will help in providing a better insight into the causes of Asthma.

2011 SHEMCS: Smart Home Energy Management and Conservation System" is an end-to-end system for in-home energy management. (**PI, 159,000 Dhs Emirates Foundation**): We will design and implement "Power-Wise" adapter that measures the energy consumption and communicates it to a database on Home Energy Proxy (HEP). The HEP, which is a virtual server that can run on a PDA or on the home computer, acts as a single point of access at home that analyzes and stores energy consumption information. Users can query the database to know, for example, which appliance was responsible for the hick in the electricity bill this month. Moreover, Home Energy Proxy sends summary of electrical power consumption information, through the Internet to a centralized server at the national utility company. This helps the utility company to optimize power distribution and allows the users to compare their power consumptions with similar houses in the region.

2011 Identifying High Risk Individuals using Social Network Mining (**PI, 100,000 Dhs University of Sharjah**): The goal of this project is to develop of a set of automated tools that uses various social networks to identify criminals, organized group of criminals or people who have high risk of criminal behavior. This information will help the law enforcement authority to cut in the crime rate in UAE by preventing crimes from happening. The model learns the behavior of activities from the collected profiles and then the model will be used to identify individual criminals, organized group of criminals and individuals who have high risk of breaking the law.

2008 – 2011 Director of the Internet Security Research Lab: Research Labs can span multiple colleges and has priority in receiving research funds from the university and outside sources. The lab receives a yearly administrative budget of about 100,000. As a director for the lab, I am responsible for developing research plan (one-year and three-year), oversee the execution of the research plan, prepare research budget for the group, approve research proposals, software/hardware purchases, research visits, hiring temporary research assistants, etc. Research interest for the members include data integrity confidentiality of sensor network, FPGA watermarking, database security, securing peep-to-peer networks, and copyright protection of software.

2007 Efficient Indexing of Distributed GIS Data on a P2P Structure. (**co-PI, 100,000 Dhs, University of Sharjah**) Geographical Information Systems (GIS) are data repositories that store both geographical data, like, maps and scalar data, like, population information and environmental measures. Because of the large amount of data involved, GIS data are usually stored on multiple servers connected with each other through a network. Recently, Peer-to-Peer (P2P) networks have opened new possibilities for efficient GIS data sharing. One of the popular applications of GIS is providing services to mobile clients e.g., car navigational system. The real-time nature of the applications makes the performance critical to the success of the GIS. In this project we are proposing new architecture for deploying GIS databases on p2p networks. One of our design goals

is to improve the performance of the distributed GIS data that is deployed on P2P networks. More specifically, we focus on improving the execution time of complex spatial queries, such as range queries and KNN queries, and the overall system throughput.

2006 Interactive Anatomical Model: (**Co-PI, 53,000 Dhs, University of Sharjah**) **Multidisciplinary project with the Medical College**. This is a multidisciplinary project with the medical College at University of Sharjah. This is an educational project in which we will equip human plastinated model with interactive multimedia information system. We will build the system to guide students through their practical anatomy laboratory without the need for tutor or instructor. The project will enable the students to be self-dependent on gaining anatomy knowledge without being helped by tutor or textbook nearby.

2006 Development of an Ultrasonic Meter for Pork Meat Identification using Ultrasound: (**Co-PI, 100,000 Dhs, University of Sharjah**). **Multidisciplinary project with the Physics Dept.** This is a multidisciplinary project to design an ultrasonic based device to identify the source of meat, e.g., pork versus lamb or cow or slaughtered versus un-slaughtered animals. The parameters are used to characterize the type of meat under consideration and build a computer-based classifier. Data collected from the training (control) set will be transformed to an appropriate space then will be used to tune the system to recognize an unknown sample of meat. We will use a training set that represents the different types of meats under consideration.
The same parameters are collected, from an unknown meat sample, using the proposed device. The measured data are subjected to the same pre-processing steps as above then the classifier is used to determine the type of the meat.

2006 Secured Smart Sensor (**Principal Investigator; Seed Fund 13,000 Dhs University of Sharjah**): Wireless sensors typically operate in uncontrolled and possibly hostile environment. Thus, sensors have a high risk of being captured and compromised by an adversary. In this research we investigate the use of watermarking techniques in providing integrity and confidentiality to sensor data. We study techniques for embedding watermark signatures in the sensor data. The challenge is to design watermark signatures that are robust to the channel noises; at the same time, the watermark signatures should be fragile enough so that altering data would destroy them.

2004 Indexing Bibliography and Authority Records: (**Principal Investigator; 138,000 Dhs, Zayed University, Dubai**) **Multidisciplinary project with the Arabic Dept**. This is a multidisciplinary project that consisted of 6 faculty and staff members from 3 different colleges and three undergraduate students. The project was in collaboration between the:
- ❑ College of Information Systems
- ❑ College of A&S, Department of Arabic and Islamic Studies
- ❑ Zayed University Library

The goal of the project was to enhance the multilingual search in library databases. We are especially interested in the Arabic and English languages. Our goal was to develop an

efficient search engine that accepts keyword in Arabic, English or both and retrieves all the records that are relevant to (and not necessarily matching) these words in both languages using synonyms of the query keywords. (This is known as Authority Control in Library Science.)

2003 Security Center Initiative: (**Principal Investigator, 100,000 Dhs + equipments and furniture, Zayed University**) to establish a CSIRT (Computer Security Incident Response Team) center. The center was established in the Fall 2004. The center was to seek external funds and include a government agency partner, e.g., Dubai Police HQ. The mission of UAECSIRT is to promote security awareness by educating users about the latest computer threats and vulnerabilities and by assisting organizations with incident response and cyber crime threat mitigation. The UAECSIRT team also provides organizations with security awareness and incident response training. UAECSIRT is the first regional security operation center equipped with a state of the art security lab for advanced security research to serve organizations and users in the Gulf area of the Middle East.

Real-time Local File System: led the design and implementation team of a real-time file system (RT-LFS) for video-on-demand and non-linear editing applications. The RT-LFS files system is build on top of Windows NT. It uses Win32 API and supports simultaneous read and write streaming required for broadcast applications. The system provides soft real-time guarantee for streaming audio and video data for LFS aware-applications and best effort for Windows applications. Application programs use device IO control commands to negotiate the **QoS** level with the admission control. Panasonic turned our RT-LFS file system into a product as a part of NewsByte25 non-linear editing system

Distributed File System for Multimedia Streaming: Design and implementation of a prototype for real-time distributed file system (RT-DFS) based on the idea of network attached disks **NASD** or smart disks. The smart disks are implemented on the **Linux** platform using PC-based hardware. The file system kernel is distributed among the clients and the autonomous disks. The system is **scalable** because there is no centralized entity that can cause congestion at high load. Smart disks and clients are connected through a Gigabit Ethernet switch. Both data and queries are transmitted over a reliable transmission protocol on top of **UDP**. RT-DFS provides soft real-time guarantee and uses the standard Win32 API.

Home Networking and Internet Portal: Leading the Home network and Internet portal project at Panasonic laboratory. Build an end-to-end prototype for a network of smart home appliances, which are connected, to the Internet. Home appliances, such as digital TV, can communicate with the owner, at office or with the manufacturer Internet **portal** to report faults or send performance measurements. Smart appliances can communicate with each other over wired local home network, such as **IEEE1394**, Ethernet or wireless connection, e.g., **Bluetooth**. A middleware layer, like **Jini** and provides simple mechanisms, which enable devices to plug together to form an impromptu community. The middleware offers simple API for devices to talk to each other and share services. At

the other end of the network, service portal should provide the capability to access smart devices at home and offer basic services such as, device configuration and setup, driver update and sending diagnostic applets.

Video on Demand Server (PISA): designing and implementing a prototype video on demand server. It is a software solution on top of PCs and open protocol architecture using IP that can be applied to Fast Ethernet, Fiber Channel. This include designing and implementing novel algorithms for data layout, disk scheduling, over RAID, to handle multi-stream real time data e.g., MPEG1, MPEG2, DVCPro, as well as audio, and still images. We also used simulation to test our new ideas and fine tune the algorithms.

Indexing of large Database of non-traditional objects: designed and implemented indexing algorithms for handwritten text. These techniques are useful for data retrieval in PDA. Handwritten text is retrieved by content. Each word is treated as images and a set of features is extracted to characterize the text. This technique is different from OCR techniques.

Industrial research fund proposals: Wrote several **project proposals** to the overseas research and development at Matsushita headquarters in Japan. As a part of my responsibility as a project leader, I have to submit a proposal for funding or continuation of funding every year

Other Industrial Research Projects:
- o Smart Home Appliances (project manager): Panasonic Research Lab, Princeton, NJ
- o IP Telephony using SIP (project manager): Panasonic Research Lab, Princeton, NJ
- o Sport Video Indexing: Panasonic Research Lab, Princeton, NJ
- o Indexing Medical Images: **IBM** Almaden research lab, San Jose, CA

Teaching Profile:

Undergraduate courses

Principle of databases	Polytechnic University, NY, USA
Database management systems	New Jersey Institute of Tech. (NJIT), NJ, USA
Programming I	Strayer University, Virginia, USA
Advanced programming	Strayer University, Virginia, USA
Operating systems	Strayer University, Virginia, USA
Digital image processing	University of Sharjah, UAE
Multimedia databases	University of Sharjah, UAE
Computer and network security	University of Sharjah, UAE
Information security	Zayed University, UAE
Computer organization	Zayed University, UAE
Database management systems	Academy for Sci. & Tech. and Maritime Trans., Egypt
Operating systems	Academy for Sci. & Tech. and Maritime Trans., Egypt
Computer programming	University of Alexandria, Egypt
Advanced programming	University of Alexandria, Egypt

Engineering economics	University of Sharjah, UAE
Industrial Info Sys & DB	Industrial and Management Eng., UoS, UAE
Database indexing (seminar course)	University of Sharjah, UAE
Digital watermarking (seminar course)	University of Sharjah, UAE
Discrete mathematics	University of Sharjah, UAE
Multimedia technology lab	University of Sharjah, UAE
Engineering ethics	University of Sharjah, UAE
Introduction to information technology	University of Sharjah, UAE
Digital logic design	University of Sharjah, UAE
Computer networking lab	University of Sharjah, UAE
Multimedia data management	University of Sharjah, UAE
Digital logic design Lab	University of Sharjah, UAE

Graduate Courses

Management of information system	Rutgers University, NJ, USA
Database management systems	Rutgers University, NJ, USA
Big Data	University of Sharjah, UAE
Advanced computer architectures	University of Sharjah, UAE
Distributed systems	University of Sharjah, UAE
Computer and information security	University of Sharjah, UAE
Advanced programming languages	University of Alexandria, Egypt
Operating systems	University of Alexandria, Egypt
Engineering Research Methodology	University of Sharjah, UAE
Cloud Computing Security and Privacy	University of Sharjah, UAE

Publications:

Citations: 6425   **Scholar index *h-index = 38***

Patents:

1. Ibrahim Mostafa Kamel, D. Barbara, *Method and apparatus for similarity matching of handwritten data objects*, Patent **allowed**, PAT. NO. 5,710,916

2. Ibrahim Mostafa Kamel, W. Aref, *A Video Server Disk Scheduling Algorithm for Simultaneous Read/Write Requests*, Patent **allowed**, PAT. NO.6,263,411

3. Ibrahim Kamel, *Cell Loss Reduction in a Video Server with ATM Backbone Network*, **allowed,** PAT. NO. 5,875,300

4. Ibrahim Mostafa Kamel, N. Niranjan, and S. Ghandeharizadeh, *Real-Time Scheduling of Prioritized Disk Requests*, **allowed**, Feb 2000

5. Ibrahim Mostafa Kamel, W. Aref, S. Mukherjee, *Seamless Scalable Design for Distributed Media Server*, **allowed,** US Patent Issued on May 9, 2000, US Patent Serial No. 6,061,720

6. S. Mukarghi, Ibrahim Mostafa Kamel, D. Bushmitch, W. Aref; *Inexpensive, Scalable and Open-Architecture Media Server*, **allowed,** US Patent No. 6,101,547

7. W. Aref, <u>Ibrahim Mostafa Kamel</u>, T. Niranjan, S. Ghandeharizadeh, *Simultaneous Processing of Read and Write Requests Using Optimized Storage Partition for Read and Write Request*, **allowed**, Pat 6,023,720

8. W. Aref, D. Barbara, <u>Ibrahim Mostafa Kamel</u>, P. Vallabhaneni, *Methods and Apparatus for Indexing a plurality of Handwritten Objects*, **allowed**, Pat 5,649,023

9. S. Mukherjee, <u>Ibrahim Kamel</u>, P. Mohapatra, *Multimedia file systems using file managers located on clients for managing network attached storage devices*, **allowed,** US Patent Issued on October 15, 2002, United States Patent 6466978

10. Aref, <u>Ibrahim Mostafa Kamel</u>, Mukherjee, *Algorithm for Fast Forward and Fast rewind of MPEG streams,* **allowed,** US Patent Issued on August 1, 2000, US Patent No. 6,097,422

11. M. Rahman, <u>Ibrahim Kamel</u>, *Providing quality of service for disks I/O sub-system with simultaneous deadlines and priority*, **allowed,** US Patent Issued on March 22, 2005, United States Patent 6871011

12. <u>Ibrahim Mostafa Kamel</u>, S. Mukherjee, Zongming Fei, *Providing VCR Functionality for Data-centered Video Multicast*, **allowed,** US Patent Issued on January 31, 2006, United States Patent 6993787

13. S. Mukherjee W. Aref, <u>Ibrahim Mostafa Kamel</u>, *Scheduling method and apparatus for network-attached storage devices and other systems*, **allowed,** US Patent Issued on October 29, 2002, US Patent No. 6473809

14. <u>Ibrahim Mostafa Kamel</u> and Li Zou, *Dynamic Multicast Grouping for Vehicles and Other Mobile Objects*, **allowed,** issued on June 20, 2006, US Patent No. 7065576

15. <u>Ibrahim Mostafa Kamel</u>, K. Elbassioni, B. Chen, *Efficient Service Management in Home Gateway*, **allowed,** US Patent Issued on March 7, 2006, United States Patent 7010661

16. <u>Ibrahim Kamel</u>, *Scheme for Implementing FTP Protocol in a Residential Networking Architecture*, Filing Date: 8/24/2001, **allowed**, Publication date: 05/01/2003 http://www.freepatentsonline.com/20030084123.html

17. Chieh-Chung Chang and <u>Ibrahim Mostafa Kamel</u>, *Server-Based Programming of Appliances Via an Information Network*, Application Number:102925, **allowed**, http://www.freepatentsonline.com/20030190149.html

18. C. Akinlar, K. Elbassioni, <u>Ibrahim Mostafa Kamel</u>, *QoS management in Home Gateway*, **allowed**, Application Number: EP20030784828, Filing Date: 07/29/2003; http://www.freepatentsonline.com/EP1535130.html, 2009

19. S. Mukherjee, W G. Aref, <u>Ibrahim M. Kamel</u>, David A. Braun, *Real-time distributed file system*, **allowed,** US Patent Issued on April 29, 2003, United States Patent 6556998

20. <u>Ibrahim Kamel</u> and Mahfuz Rahman, Multimedia based caller ID for instant messaging and presence services, **allowed**, Publication Date: 02/23/2006, United States Patent 20060039545, http://www.freepatentsonline.com/20060039545.html

21. P. Mohapatra, <u>Ibrahim Kamel</u>, S. Mukherjee *Scalable Multimedia File Systems for Network Attached Storage Devices Real-time Local File system for News Editing Systems*, Filing Date: 9/18/01

22. Awad Elkhalaf, Hussien El-mahdi, <u>Ibrahim Kamel</u>, "A portable ultrasonic instrument used to distinguish pig meat from other meats", **allowed** Publication Date: 06/16/2011, United States Patent 2011/0138917

23. Awad Elkhalaf, Hussien El-mahdi, <u>Ibrahim Kamel</u>, "A portable ultrasonic instrument used to distinguish slaughtered meat from un-slaughtered meats", provisional filling, 2007

24. T. Rabie, M. Baziyad, <u>Ibrahim Kamel</u>, G. Kabatyansky, "Deep Neural Networks Using a Novel DCT-Based Scheme", Allowed US 18/205,857, 2024.

Submitted

R. Mostafa, M. Khedr, Z. Al Aghbari, I. Afyouni, Ibrahim Kamel, N. Ahmed, "A multi-strategy improved electric eel foraging optimization algorithm: Continuous and binary variants for solving optimization problems", Journal: Applied Soft Computing Journal, Elsevier, June 2024.

"Potential Neural Fields: A New Path Planning Approach for Swift and Smooth Paths", which was submitted to the Journal of Autonomous Robots on 14 June 2024

M. Baziyad; T. Rabie; Ibrahim Kamel, "High Fidelity Steganography Resistant to Deep Learning-based Steganalysis Detection: A Covert Parity Bit Model-based Approach", Journal of Algorithm, 2024

Accepted International Journal:

25. K. Almazrouei, M. Baziyad, T. Rabie, Ibrahim Kamel, "Dynamic Obstacle Avoidance and Path Planning through Reinforcement Learning", Journal of Applied Sciences, Switzerland, 2024

26. N. AbuJabal, T. Rabie, M. Baziyad, Ibrahim Kamel, K. Almazrouei, "Path Planning Techniques for Real-Time Multi-Robot Systems: A Systematic Review", Electronics, 13(12), 2024. (**Impact Factor: 2.90**)

27. Mariam, Z. Al Aghbari, Ibrahim Kamel, "SkyEye: Continuous Processing of Moving Spatial-Keyword Queries over Moving Objects", Geoinformatics, 2024. (**Impact Factor: 2.77**)

28. R. Mostafa, M. Khedr, Z. Al Aghbari, I. Afyouni, Ibrahim Kamel, N. Ahmed, "An adaptive hybrid mutated differential evolution feature selection method for low and high-dimensional medical datasets", Journal of Knowledge-Based Systems, Elsevier, Vol 283, 2024. (**Impact Factor: 8.8**).

29. A Altaweel, S Aslam, I Kamel, "Security attacks in opportunistic mobile networks: A systematic literature review", Journal of Network and Computer Applications, 2024.

30. M. Orabi, Z. Al Aghbari, Ibrahim Kamel, FogLBS: Utilizing Fog Computing for Providing Mobile Location-Based Services to Mobile Customer, Journal of Pervasive and Mobile Computing, (**Impact Factor: 4.3**), 2023.

31. Altaweel, H. Mukkath, Ibrahim Kamel, "GPS Spoofing Attacks in FANETs: A Systematic Literature Review", IEEE Access, 2023. (**Impact Factor: 3.476**)

32. M. Orabi, Z. Al Aghbari, Ibrahim Kamel, D. Mohab, "Keeping an Eye on Moving Objects: Processing Continuous Spatial-Keyword Range Queries", GeoInformatica, Springer, 2024. (**Impact Factor: 2.773**)

33. T. Ghaneem, Ibrahim Kamel, Z. Al Aghbari, "Secure kNN Query of Outsourced Spatial Data using Two-cloud Architecture", The Journal of Supercomputing, Springer, 2023. (**Impact Factor: 2.557**)

34. Janabekova, G. Kabatiansky, Ibrahim Kamel , T. Rabie, "Non-Overlapping Convex Polytopes with Vertices from Boolean Cube and Other Problems in Coding Theory", Problems of Information Transmission, 58, 341–351 (2022). (Impact Factor: 1.34)

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150. M. Ali, W. Aref, Ibrahim Kamel, "Scalability Management in Sensor-Network PhenomenaBases", the 18th International Conference on Scientific and Statistical Database Management, Vienna, Austria, July 2006.

151. Ibrahim Kamel, "*IT Technology Transfer: Challenges and Priorities*", 2nd National Symposium on Technology Development and Transfer, Riyadh, Saudi Arabia, May 12-14, 2005

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156. Ibrahim Kamel and Emad Bataienah "An Enhanced Multimedia-based System for e-learning Applications", International Conference on Educational Multimedia, Hypermedia & Telecommunications, June 21-26, 2004 Lugano, Switzerland

157. Ibrahim Kamel, Alaa Eltalmas, and Muneer Abubaker, "On Searching Arabic Records in Electronic Libraries", The International conference MELCOM, Munich, Germany, May 24-26, 2004.

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159. Ibrahim Kamel, "On Connecting Smart Appliances to the Internet", International Workshop on Frontiers of Information Technology, Islamabad, Pakistan, December 2003.

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Un-refereed Technical Reports:

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191. M. Rahman, Ibrahim Kamel, "*Implementation Schemes and Performance Optimization for I/O Subsystem in News Editing Systems*", Technical report, PINTL-IM-091-99

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193. M. Rahman and I. Kamel, Providing Soft Real-Time Guarantees in Disks Sub-systems. Technical Report, Panasonic Information and Networking Tech Lab PINTL-TR-224-00

194. C. Ren, Ibrahim Kamel*, "Jini Home Networking Technology: Experiences and Examples"*, Technical Report, Panasonic Information and Networking Technologies PINTL TR-226-01

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199. W. Aref, Ibrahim Kamel, S. Mukherjee, L. Li, *Sorting and Scheduling Characteristics of Space-Filling Curves,* PINTL-TR-196-98

200. C. Akinlar, W. Aref, Ibrahim Kamel, S. Mukherjee, *A Scalable High-Bandwidth Distributed File System for Multimedia Applications*, PINTL-TR-211-99

201. L. Zou, Ibrahim Kamel, *A Dynamic Multicast Grouping Algorithm for Mobile Objects*, PINTL-TR-225-00

202. C. Akinlar, M. Rahman, Ibrahim Kamel, *Architecture and Design of PINTL's SIP Stack Implementation*, PINTL-TR-230-01

Professional Activities:

International Journal Editorial Board:

❑ Editor, International Journal of Computers and Applications, Taylors and Francis, 2015-now.

https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=tjca20

- Editor, International Journal of Virtual Technology and Multimedia (IJVTM), http://www.inderscience.com/browse/index.php?journalID=66; 2008-now.

- Editor, International Journal of Advanced Research in Big Data Management System 2017 – now. https://gvpress.com/journals/IJARBMS/

- Editorial Board: Journal of Informatics, Eskişehir Turkic Research Center, 2020 – now. https://dergipark.org.tr/en/pub/estudambilisim/board

- Editor, International Journal of Distributed Sensor Networks, SAGE Publishing, 2015 – 2023.

- Editor, International Journal of International Journal of Computing and Digital Systems 2018 – 2022.

- Editor, International Journal of Data Engineering (IJDE) http://www.cscjournals.org/journals/IJDE/editorial-board.php, 2008-2018.

- International Journal of Advanced Networking and Applications (IJANA), 2009-2020.

- Served as a Guest Editor, International Journal of Internet Protocol Technology, Inderscience, Special issue on High performance autonomous networks, 2013.

- The Journal of Information Processing System, http://jips-k.org/, Associate editors 2007-2011.

- International Journal of Distributed Sensor Networks, Hindawi, served as an Editor 2007-2015.

- Publication Director and member of the editorial board and SERSC http://www.sersc.org/ till 2009.

- Regional Director, International Association for Future Technology Research (FTRA), http://www.ftrg.org/ 2000-2004.

- Served as an editor International Journal of Multimedia and Ubiquitous Engineering (IJMUE), SERSC, http://www.sersc.org/journals/IJMUE/EB.php, 2006-2014.

- Serving as an Editors International Journal of Smart Home (IJSH) http://www.sersc.org/journals/IJSH/EB.php till 2005.

- Editor, International Journal of Computers and Applications, ACTA Press, http://www.actapress.com/Content_of_Journal.aspx?JournalID=116#editors-3, 1999-2015.
- Editor of the Special Issue of International Journal of Internet Protocol.
- Journal of Computing and Applications (JCA) http://www.iacse.org/jca.html.

Program Chair:

- 3rd International Workshop on Recent Advances in Information Security, Sharjah, UAE, May 2017
- Organizing committee, Workshop on Modeling and Analysis of Environmental Exposures on Public Health, Abu Dhabi, UAE Jan 2014
- Program chair for the 10th ACS/IEEE International Conference on Computer Systems and Applications AICSSA, Fes, Morocco, May 2013
- Program co-chair, 3rd IEEE SaCoNet III, Ottawa, Canada, 2012.
- Member of the organizing committee for the Information and Communication technology research forum that will be held in Abu Dhabi in May 2012.
- International workshops Chair, the 5th International Conference on Embedded and Multimedia Computing (EM-Com), Cebu, Philippine, August 11-13, 2010.
- Conference Chair, Recent Advances in Information Security, University of Sharjah, UAE, April 2009
- Track Chair "Information System Security", the 15th IEEE International Conference on Electronics, Circuits, and Systems, ICECS August 2008, Malta.
- Track Chair, eBusiness Applications, ACM Symposium on Applied Computing (SIGAPP), 2008
- Program Chair, RAIS08 Recent Advances in Information Security, Sharjah, UAE, 2007
- Track Chair, ACS/IEEE International Conference on Computer Systems and Applications, AICCSA-07 (May 13-16, 2007, Amman, Jordan); track on Database and Data Mining, http://www.philadelphia.edu.jo/aiccsa2007
- Technical Program **Co-chair** for the International Workshop on Mining Spatio-temporal data as a part of PAKDD 2001, Hong Kong, China
- Technical Program **Co-chair** 6th International Workshop on Multimedia Information Systems 2000
- Technical Program **Co-chair** New Trends on Multimedia Systems mini-track in the 33rd Hawaii International Conference on System Sciences, 2000.
- Organized a session on Multimedia Systems as a part of the 4th International Conference on Information Systems, Analysis and Synthesis 1998.

Natural Sciences and Engineering Research Council of Canada

- Research Grant reviewer NSERC-Computer Science/CRSNG-Sciences Informatiques, 2019

- Research Grant reviewer NSERC-Computer Science/CRSNG-Sciences Informatiques, 2018

- Research Grant reviewer NSERC-Computer Science/CRSNG-Sciences Informatiques, 2017

National Science Foundation (NSF) Committees and Panels:

- Research grant proposal reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC)
- Panelist for NSF (National Science Foundation) for Database and Expert Systems Program, 1995
- NSF committee member for Research Infrastructure Program, National Science Foundation (NSF), 1996
- NSF (National Science Foundation) committee member for Database and Expert Systems Program, 1999
- NSF (National Science Foundation) committee member for Database and Expert Systems Program, 2000

Advisory Board:
- Member of advisory committee of the Faculty of Engineering & IT, British University in Dubai
- Founding member of the ACM SIGSpatial (Association for Computing Machinery – Special Interest Group for spatial and geographic information), http://www.sigspatial.org/ACMSIG-Spatial-Proposal.pdf
- Served in the **Advisory Board** for the Department of Electrical and Computer Engineering, University of Miami 2000-2002
- Served in the **Advisory Board** of Center for Advanced Information Processing (CAIP), Rutgers University 1999 – 2002

Conference Organization:

- General Chair, International workshop on Recent Advances in Information Security, May 7th, 2017, Sharjah, UAE.
- Technical Program Chair, the 10th ACS/IEEE International Conference on Computer System and Applications, 2013
- Publicity **Chair**, The 9th IFIP International Conference on Network and Parallel Computing (NPC 2012), Gwangju, Korea, 6-8 September 2012, http://www.ftrai.org/npc2012/cfp.php

- ❑ Member of the organizing committee of the UAE Forum in Information and Communication Technology Research 2011 (ICTRF2011) http://events.kustar.ac.ae:81/events/ictrf2011/
- ❑ Member of the organizing committee of the 3rd UAE Engineering Students Ethics Competition 2011 (ESEC2011) in the UAE http://events.kustar.ac.ae/esec2011/
- ❑ Publicity **Chair**, the 3rd International Conference on Internet (ICONI 2011) December 15-19, 2011, Sepang, Malaysia. http://www.iconi.org/2011/index.html
- ❑ **Chair,** local arrangement, International Symposium on Signal Processing and its Applications (ISSPA), Sharjah, UAE, February 12-15, 2007
- ❑ **Session chair** in several International conferences and workshops

Program Committee member:

- PC member of the 2020 International Conference on Communications, Computing, Cybersecurity, and Informatics (CCCI)
- PC member of the 27th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, 2019.
- PC member of the Globecom IEEE Global Communications Conference, Symposium Track on Cloud & Fog/Edge Computing, Networking and Storage, USA, from 9 -13 December 2019.
- PC member of the IEEE Global Communications Conference: selected areas in communications: Cloud Computing, Networking, and Storage, 9-13 December 2018, Abu Dhabi, UAE.
- PC member of the 26th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, 2018.
- PC member of the Third International Conference on Advances in Computation, Communication and Services, ACCSE July 22, 2018, Barcelona, Spain.
- PC member of the 25th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, 2017.
- PC member of the 10th Annual International Conference on Computer Games Multimedia and Allied Technologies (CGAT 2017), April 2017, Singapore.
- PC member of the 2nd International Conference on Advances in Computation, Communications and Services, June 25 - 29, 2017- Venice, Italy.
- PC member of the 12th International Conference on Software Technologies, Madrid, Spain, July 2017.
- PC member of the 13th International Conference on Applied Computing, Germany, October 2016.
- PC member of the 24th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, 2016.
- PC member of the International conference on Big Data, Advanced Wireless and Communication, November 2016.
- PC member of the Eighth International Conference on Advanced Geographic Information Systems, Applications, and Services GEOProcessing 2016, April 24 - 28, 2016 - Venice, Italy
- PC member of the 23rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, 2015.
- PC member of the Wireless Sensor Networks: Architectures, Deployments, and Trends, July 2015
- PC member of the 5th International Symposium on Cloud and Service Computing, Chengdu, Sichuan, China, Dec 19 - Dec 21, 2015

- PC member of the 7th IFIP International Conference on New Technologies, Mobility and security, Workshop on sensor networks 26 - 29 July 2015.
- PC member of the Seventh International Conference on Advanced Geographic Information Systems, Applications, and Services (GEOProcessing 2015), Feb 2015 - Lisbon, Portugal
- PC member of the IEEE International Conference on Multimedia and Expo (ICME) 2014, July 14-18, 2014, CHENGDU, China
- PC member of the 22nd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, 2014.
- PC member of the 2014 International Conference on Internet of Vehicles (IOV 2014) will be held in August, 2014, in Beijing, China.
- PC member of the 6th International Conference on Advanced Geographic Information Systems, Applications, and Services (GEOProcessing 2014), March 23 - 27, 2014 - Barcelona, Spain
- PC member of the 3rd International Conference on Informatics, Electronics & Vision (ICIEV), 23-24 May, 2014, in the University of Dhaka, Bangladesh http://CenNSER.org/ICIEV
- PC member of the SMART 2014, The Third International Conference on Smart Systems, July 20 - 24, 2014 - Paris, France
- PC member of the 6th IFIP International Conference on New Technologies, Mobility and Security, Dubai, 2014
- PC member of the 8th International Symposium on Wireless Pervasive Computing Taipei, Taiwan, Nov 2013
- PC member of the 16th IEEE International Conference on Computational Science and Engineering, Sydney, Australia, December 2013
- PC member of the 14th International Conference on Web Information System Engineering, 2013
- PC member of the International Conference on GEOProcessing March 2014, Barcelona, Spain
- PC member of the International Conference on Connected Vehicles & Expo (ICCVE 2013) Dec 2013, Las Vegas, Nevada, USA
- PC member of the International Conference on Data Engineering (DaEng-2013), Kuala Lumpur, Malaysia on December 2013.
- PC member of the 2nd International Conference on Smart Systems, Devices and Technologies SMART 2013, June 23 - 28, 2013 - Rome, Italy
- PC member The 2013 World Conference on Information Systems and Technologies (WorldCIST'13)
- PC member of the ACM/IEEE International Conference on Connected Vehicles & Expo 2012
- PC member of the 12th International Conference on ITS Telecommunications, Taipei, Taiwan Nov 2012, www.itst2012.org
- PC member of the 6th International Conference on Communications, Propagation, and Electronics, 2013.
- PC member of the 15th IEEE International Conference on Computational Science and Engineering, 2012.
- PC member of the International Conference on Communications, Networking and Information Technology, 2012.
- PC member of the IADIS International Conference Applied Computing 2012
- PC member of the 20th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, 2012
- PC member of the 9th International Conference on Mobile Web Information Systems, 2012.

- PC member of the First International Conference on Smart Systems, Devices and Technologies, Stuttgart, Germany, May 27 - June 1, 2012
- PC member of the Second International Conference on Communications and Information Technology ICCIT 2012, Tunisia June 26-28, 2012
- PC member of the International Workshop on Wireless Sensor Networks: Architectures, Deployments, and Trends, Istanbul, Turkey, May 2012
- PC member of the International Conference on Information Technology and e-Services March 24-26 2012 Sousse, Tunisia
- PC member of the 7th International Symposium on Wireless Pervasive Computing, Dalian, China, 2012
- PC member of the 5th IFIP International Conference on New Technologies, Mobility and Security May 2012, Istanbul, Turkey.
- PC member of the 4th International Conference on Advanced Geographic Information Systems, Applications, and Services, Jan, 2012 - Valencia, Spain
- PC member of the 6th International Conference for Internet Technology and Secured Transactions (ICITST-2011), Abu Dhabi, UAE, December 11-14, 2011
- PC member of the 14th IEEE International Multitopic Conference (INMIC 2011), Karachi, Pakistan December, 2011
- PC member of the 19th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Nov 2011
- PC member of the Australasian Telecommunication Networks and Applications Conference, Melbourne, Australia, November 2011
- PC member of the 15th IASTED International Conference on Internet and Multimedia Systems and Applications IMSA 2011, May 16 – 18, 2011, Washington DC, USA
- PC member of the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems ACM SIGSPATIAL GIS 2010
- PC member of the Annual International Conference on Networks Technology and Communications (NT&C)
- PC member of the 6th International Symposium on Wireless sensor network Technologies and Applications for Smart Space, 2010
- PC member of the 27th IEEE International Conference on Data Engineering, ICDE 2011, April 11 - 16, 2011 in Hannover, Germany.
- PC member of the IEEE International Conference on Wireless Communications, Networking and Information Security (WCNIS2010), June, 2010, Beijing, China. http://www.ieee-wcnis.org/index4.asp
- PC member of the 8th CS/IEEE International Conference on Computer Systems and Applications (AICCSA), Hammamet, Tunisia, 2010, http://www2.lifl.fr/AICCSA2010/
- PC member of the Fifth International Symposium on Smart Homes, May 2010, Busan, Korea, http://www.ftrg.org/sh2010/index.php
- PC member of the International Conference on Multimedia Computing and Information Technology (MCIT-2010), University of Sharjah, UAE
- PC member of the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems ACM SIGSPATIAL GIS 2009
- PC member of the 2009 IEEE International Conference on Information Reuse and Integration, 10-12 August 2009, http://iri2009.cpsc.ucalgary.ca/

- PC member of the International workshop on Web Security, Integrity, Privacy, and Trust (WSIPT'2009)
- PC member of the International Conference on Advances in Social Networks Analysis and Mining 2009 (ASONAM09, URL is http://www.asonam.org/
- PC member of the 7th ACM/IEEE International Conference on Computer Systems and Applications (AICCSA-2009), http://www.congreso.us.es/aiccsa2009/
- PC member of the 16th ACM International Symposium on Advances in Geographic Information Systems (ACM GIS) 2008
- PC member of the IEEE International Conference on Information Reuser and Integration 2008 (IRI08), http://iri2008.cpsc.ucalgary.ca/
- PC member of the Workshop on Knowledge Discovery and Data Mining from Multimedia Data and Multimedia Applications in conjunction with ICDM 2007; http://www.cse.fau.edu/~xqzhu/kdm/ICDM07_kdm.html
- PC member of the 15th ACM International Symposium on Advances in Geographic Information Systems (ACM GIS 2007), http://www.cise.ufl.edu/dept/acmgis2007/pc.html
- PC member of the 2nd International Conference on Multimedia and Ubiquitous Engineering, Seoul (Korea) on April 2008, http://www.sersc.org/MUE2008/
- PC member of the 2007 International Conference on Intelligent Pervasive Computing (IPC-07) October 12th -13th, 2007, in Jeju-do, Korea www.sersc.org/IPC2007/
- PC member of the 13th International conference on Database Systems for Advanced Applications (DASFAA08) New Delhi, India, March 2008; http://www.cse.iitb.ac.in/~dasfaa08/
- PC member of the 3rd International Conference on Embedded Software and Systems (ICESS2007) is to be held in Daegu, South Korea, May 14-16, 2007, http://www.icess2007.org/
- PC member of the Eight International Conference on Mobile Data Management, MDM'07, Mannheim, Germany, May 7-11, 2007. http://mdm2007.uni-mannheim.de
- PC member of the International Conference on Internet and Multimedia Systems and Applications (EuroIMSA) Chamonix, France from March 14-16, 2007. http://www.iasted.org/conferences/home-558.html
- PC member of the 12th International Conference on Database Systems for Advanced Applications (DASFAA 2007) 9-12 April, 2007, Ambassador Hotel, Bangkok, Thailand http://www.dasfaa07.ait.ac.th/
- PC member of the International Conference on Multimedia and Ubiquitous Engineering (MUE'07), Seoul, Korea, April 2007, http://www.sersc.org/MUE2007/contents/page/06.html
- PC member of the the International MultiMedia Modeling Conference, Special session on Ubiquitous Multimedia Service (UMS '07), Singapore, January 2007,
http://cemnet.ntu.edu.sg/mmm2007/ss-ums07.htm
- PC member of the 4th International Workshop on Frontiers of Information Technology, Islamabad, Pakistan, December 20-21, 2006 http://www.ciit-atd.edu.pk/fit06/
- PC member of the 1st International Workshop on Smart Home, November 10th ~ 11th, 2006, Cheju Island, Korea, http://www.secureworld.or.kr/IWSH.htm
- PC member of the International Conference on Intelligent Systems And Computing: Theory And Applications, Cyprus, July 5-7, 2006, http://www.cs.ucy.ac.cy/ISYC06/
- PC member of the 7th IEEE International Conference on Mobile Data Management, Nara, Japan in May 9-12 2006, http://www.mdm2006.kddilabs.jp/
- PC member of the 11th International Conference on Database Systems for Advanced Applications (DASFAA), Singapore 2006, http://www.comp.nus.edu.sg/~dasfaa06/
- PC member of the International Conference on Applied Computing 2006, San Sebastian, Spain, 25-28 February 2006, http://www.iadis.org/ac2006/committees.asp

- PC member International Conference on Internet and Multimedia Systems and Applications (EuroIMSA 2006), Innsbruck, Austria from February 13-15, 2006
- PC member of the 13th ACM International Symposium on Advances in Geographic Information Systems, November 12-13th, 2005, Bremen, Germany http://infolab.usc.edu/acmgis05/index.html
- PC member of the International IEEE Symposium on Mobile Computing (WirelessCom), June 13-16, 2005, Maui, USA http://www.csee.umbc.edu/~younis/WC_MobCom05.htm
- PC member of the 6th International Conference on Mobile Data Management (MDM), Ayia Napa, Cyprus, May 9-13, 2005, http://www2.cs.ucy.ac.cy/mdm05/
- The IEEE Sarnoff Symposium, 18-19 April 2005, http://ewh.ieee.org/r1/princeton-centraljersey/2005_Sarnoff_Symposium/index.html
- Program committee member, The 9th IASTED International Conference on Internet & Multimedia Systems & Applications, August 15-17, 2005, Honolulu, Hawaii, USA, http://www.iasted.org/conferences/2005/hawaii/c477.htm
- Program committee member, 2nd International Workshop on Frontiers of Information Tech. Islamabad, Pakistan – Dec 20-21, 2004, http://multimedia.ece.uic.edu/FIT04/
- EuroIMSA 2005, International Conference on Internet and Multimedia Systems and Applications, Grindelwald, Switzerland from February 21-23, 2005, http://www.iasted.org/conferences/2005/switzerland/c462.htm
- Program committee member of the international Conference on Information Resources Management Association, San Diego, California, USA during May 15-18, 2005, http://www.irma-international.org/downloads/pdf/Track_05/security.pdf
- Program committee member of the 2004 IEEE International Workshop on Multimedia Content-based Analysis and Retrieval Miami, Florida, USA December 15, 2004, http://rvc.eng.miami.edu/meetings/mcbar.html
- Program committee member of the International Conference on Information and Knowledge Engineering IKE'04: June 21-24, 2004, Las Vegas, Nevada, USA
- Program committee member of the 8th International conference of Internet and Multimedia Systems & Applications, August 16-18, 2004, USA. http://www.iasted.com/conferences/2004/hawaii/c427.htm
- Program committee member of the international Conference on Embedded Systems and Applications ESA'04: June 21-24, 2004, Las Vegas, Nevada, USA.
- Program committee member of the International Association of Science and Technology for Development for the term 2003-2006 on the Web, Internet & Multimedia http://www.iasted.org/
- Program committee member of the ACM International Symposium on Geographic Information Systems; Nov 2003, http://www.esri.com/events/acm/index.htm
- Program committee member of the 2nd international conference on Human.Society @ Internet, Seoul, Korea June 2003
- Program committee member of the 8th international Workshop on Multimedia Information Systems (MIS 2002), Chicago, USA
- Program committee member of the 5th IEEE international Workshop on Networked Appliances, IWNA 2002, http://www.cms.livjm.ac.uk/iwna5/
- Program committee member of the 9th ACM international Symposium on Advances in Geographic Information Systems November 2001
- Program Committee member 3rd international Workshop of the Multimedia Information Retrieval (MIR), ACM Multimedia Conf 2001, Ottawa, Canada http://database.cs.ualberta.ca/mir2001/
- Program committee member of the 2nd international Workshop on Software Engineering and Multimedia Applications (SEMA2000)
- Program committee member of the 2nd Workshop of the Multimedia Information Retrieval (MIR), ACM Multimedia Conf 2000, CA, USA

- Program committee member of the 5th International Workshop on Multimedia Information Systems (MIS'99)
- Program committee member international Conference on Foundations of Data Organization and Algorithms (FODO'98)
- Program committee member of the 13th international IEEE Conference on Data Engineering 1997 (ICDE)
- Program committee member of the 4th international Conference on Information Systems, Analysis and Synthesis 1998
- Program committee member the 4th international Conference on Object-oriented & Entity Relationship Modeling 1995

Research Panels:
- Cyber Space Security panel, the Knowledge and ICT4D Conference 2005, June 14-16, 2005; http://kict4d.org.my/?p=programme
- Panelist in a panel titled "New Horizons in IT Research", International Workshop on Frontiers of Information Technology, Islamabad, Pakistan, December 2003
- Panelist in a panel titled "Research in Internet Time: How Can We Meet the Challenge" at the Center for Advanced Information Processing, Computer Science Department, Rutgers University, November 15, 2000

Tutorials presented:
- How to improve you efficiency, Concordia University, 2006
- Time Management, Arab Software Consultant, Saudi Arabia, 2005
- Home Networking and Java technologies at Matsushita Workshop on Digital Networking, New Jersey, July 1999

Invited talks:
- Keynote speaker, 1st Symposium on Social Network, Open Arab University Muscat-branch, Oman, April 29, 2013
- Keynote speaker, 2nd Egyptian Engineering Association Conference, Riyadh, Saudi Arabia, May 20, 2010
- Carnegie Mellon University-Qatar Campus, March 2010
- Khalifa University, UAE, March 2010
- Concordia Institute for Information Engineering, Concordia University, July 2006
- Saudi Society for Technology Development & Transfer, February 2005
- Purdue University, 2001
- Mitsubishi Research Laboratory, Homedale, NJ, USA, 2000
- Virginia Tech, Virginia, 1998
- Michigan State University, 1997
- University of California, San Diego, 1995
- University of Miami, Miami, 1995
- The University of Texas at Arlington, 1995
- Polytechnic University, Brooklyn, NY, 1995

University Committees and Services:

- Chair, Committee to **establish a new college** (College of Computing and informatics) 2018-2019.
- College of Engineering Promotion Committee 2018-now.
- Member of the **Deans Council** 2016-2018
- Member of the ECE **Ph.D.** committee 2016-2017
- Member of the University Information Technology and Communication **Steering Committee** 2016-now
- Member of the University **Graduate Studies Board** 2016-now
- **Chairman** of the Electrical and Computer Engineering department 2012-2016
- **Chair** of the ECE **Ph.D.** committee to prepare new Ph.D. program in the department of Electrical and Computer Engineering 2015-2016
- Member of the University Computer Center **Advisory Committee** 2016-now
- Member of the **University Research Board** 2014 – now
- **Chair** of the university-level committee to put guidelines for providing undergraduate **major/minor** programs 2015
- Member of the Intellectual Properties and **Patent** University committee 2015-2016
- Member of the UoS **Research Reorganization** Committee 2014-2015
- Member of the Engineering Management **Ph.D. Committee**, College of Engineering. 2013 - 2016
- Member of the University **Information Technology advising committee**, 2013 - 2015
- **Chair** of University-level for **Curriculum Revision** and removing duplicate / similar basic courses (e.g., science and math) across the university (reporting to the vice chancellor) 2011-2012.
- **Executive Chair**, the university strategic research in sustainable infrastructure domain, 2009- 2012
- Member of the University of Sharjah **Central Research Board**, 2009 - 2013
- Member of the College of Engineering **promotion committee**, University of Sharjah,
- Chairing and member of many **hiring** committees faculty members, department chairs, Deans, Vice Chancellor 2009-2017
- Member of the **College Council**, University of Sharjah 2009-2010; 2011 - now
- **Chair of the Faculty Affairs Committee**, University of Sharjah, 2007 - 2009
- Member of the **University Strategic planning** (community services), 2007-2008
- Member of the **University Strategic planning** (information technology), 2007-2008
- Member of the **College Strategic planning** (college of engineering), University of Sharjah 2006 – 2007
- Member of the faculty promotion committee at the department of ECE, College of Engineering, University of Sharjah, 2006-2008
- Member of the **College council**, University of Sharjah 2006-2007

- ❑ **Chair,** College of Engineering **curricula and education System committee** 2006-2007. The committee is responsible for improving curriculum across the college. The committee also responsible for evaluating the performance (and propose recommendations to improve) the college in the following areas: undergraduate programs; student welfare; extracurricular activities.
- ❑ Member of the **Advisory Board** of the College of Engineering, University of Sharjah, 2005-2006
- ❑ Advisor, IEEE student branch, University of Sharjah 2005-2007
- ❑ Member of the Faculty and Staff Grievance committee, U of Sharjah 2005 - 2006
- ❑ **Chair**, capstone project (senior project) committee, U of Sharjah, 2005 - now
- ❑ **Advisor and founder**, Ethical Hacking Club (student professional club) 2004-05
- ❑ Member of **University Student affair committee**, Zayed University**:** 2003 - 2004
- ❑ Member of **College Student Affairs committee,** Zayed University**:** 2003 - 2004
- ❑ **Advisor**, Information Security Club (student technical club) 2003 - 2004
- ❑ Member of the **Dean Search committee**, Zayed University 2003 – 2004
- ❑ Member of Language across the Curriculum Task Force Zayed, University: this is a university-level task force, which is chaired by the Deputy Provost. The goal of the task force is to review the language support, both Arabic and English, in the Zayed, University curriculum in the different colleges to evaluate its effectiveness and suggest measure to improve the student language skill during their course of study at the university.
- ❑ **College Council** 2003-2004, Zayed University. The college council works closely with the Dean and acts as an advisory committee to the dean of the college in administrative, planning and college promotional issues. The council also helps the dean in preparing the yearly strategic plan for the college.
- ❑ Member of Curriculum Committee for the College of Information systems at Zayed University 2002-2003. The committee is responsible for developing new curriculum for the College of Information Systems to make it ready for Middle States accreditation.
- ❑ University academic re-organization committee, Zayed University 2003-2004: This committee reports to the Provost. The role of the committee is to propose a plan to improve the overall university effectiveness and efficiency. The committee reviews various academic programs and courses offered by the various colleges to achieve better operation efficiency. The output is a set of recommendations to combine academic programs and propose collaborations and cross-listing of courses.
- ❑ Student member, Graduate Admission Committee, University of Maryland, 1991-1994

Honor and Awards:

- • Received the **Distinguished Faculty Award** in the area of community service, University of Sharjah, April 2011

- Received **Research Award** for distinguished faculty, University of Sharjah, April 2010
- Received **Best achievements** award in the **patent corner**, University of Sharjah, June 2008
- Received Best Research Project Award. University of Sharjah May 7, 2008
- Won two **Silver Medals** form 36th Exhibition of Inventions International in Geneva, April 2008.
- Elevated to **Senior Member** stature in the Institute of Electrical and Electronics Engineers (IEEE) based on my service to the profession.
- Received the **Exemplary faculty award** for outstanding academic performance, Zayed University 2003-2004 based on the performance in research, teaching and professional services and contributions at both college and university levels
- Research scholarship at Dept. of Computer Science, University of Maryland, College Park, 1989-1994
- Received travel award from UNSCO, training at Feedback, UK, 1987
- Received internship grant, UNSCO, Imperial College, London, 1987
- Received scholarship for practical training from National Institute of Nuclear Physics, Trieste, Italy 1986
- Received academic excellence scholarship, University of Alexandria, 1979-1984

Google Scholar:
https://scholar.google.com/citations?hl=en&user=LjvTwaMAAAAJ&view_op=list_works&sortby=pubdate

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References:

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