

**Khaled Elleithy, Ph.D.**  
Fellow, African Academy of Sciences

**Mailing address**

Work

University of Bridgeport  
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**Education**

- Ph.D., Computer Science, the Center for Advanced Computer Studies (CACs), University of Louisiana at Lafayette, USA, May 1990
- M.S., Computer Science, the Center for Advanced Computer Studies (CACs), University of Louisiana at Lafayette, USA, May 1988
- M.S., Computer Science and Automatic Control, Computer Science and Automatic Control Dept., Faculty of Engineering, University of Alexandria, Egypt, July 1986
- B.S., Computer Science and Automatic Control, Computer Science and Automatic Control Dept., Faculty of Engineering, University of Alexandria, Egypt, May 1983

**Research Interests**

- Wireless communications and Wireless Sensor Networks
- Cybersecurity
- Applications of machine learning in the medical field
- Quantum Computing
- Formal approaches for design and verification
- Computer Architecture and Computer Arithmetic

**Administrative Positions**

**Dean, College of Engineering, Business and Education, University of Bridgeport, Bridgeport, Connecticut, USA**  
(July 2021 –current)

**Interim Dean, College of Engineering, Business and Education, University of Bridgeport, Bridgeport, Connecticut, USA**  
(April 2020 –June 2021)

**Associate Vice President for Graduate Studies and Research, University of Bridgeport, Bridgeport, Connecticut, USA**  
(April 2014 – current)

**Associate Dean, College of Engineering, Business and Education, University of Bridgeport, Bridgeport, Connecticut, USA**  
(September 2018 – April 2020)

**Director, Engineering Grand Challenge Scholar Program** (September 2018 – Current)

**Ph.D. Program Director, University of Bridgeport, *Bridgeport, Connecticut, USA***  
(September 2015 – Current)

### Current Academic Positions

**Distinguished Professor**, Computer Science and Engineering Department, University of Bridgeport, Bridgeport, Connecticut, USA  
(May 2021 – Current)

**Professor**, Computer Science and Engineering Department, University of Bridgeport, Bridgeport, Connecticut, USA  
(May 2003 – April 2021)

**Professor**, Electrical Engineering Department, University of Bridgeport, Bridgeport, Connecticut, USA  
(May 2005 – Current)

### Employment History

**Dean, College of Engineering, Business and Education, University of Bridgeport, Bridgeport, Connecticut, USA**  
(July 2021 –current)

**Interim Dean, College of Engineering, Business and Education**, University of Bridgeport, Bridgeport, Connecticut, USA  
(April 2020 – June 2021)

**Associate Dean, College of Engineering, Business and Education**, University of Bridgeport, Bridgeport, Connecticut, USA  
(September 2018 – April 2020)

**Associate Vice President for Graduate Studies and Research**, University of Bridgeport, Bridgeport, Connecticut, USA  
(April 2014 – Current)

**Associate Dean for Graduate Programs**, School of Engineering, University of Bridgeport, Bridgeport, Connecticut, USA  
(March 2006 – September 2018)

**Director, Engineering Grand Challenge Scholar Program**, School of Engineering, University of Bridgeport, Bridgeport, Connecticut, USA  
(September 2018 – Current)

**Professor**, Computer Science and Engineering Department, University of Bridgeport, Bridgeport, Connecticut, USA  
(May 2003 – Current)

I introduced new courses in security, mobile communications, embedded system design, wireless sensor networks, and quantum computing. The students consider these classes as the most interesting and exciting courses in computer engineering, computer science, and mathematics programs. I am the founder of the Mobile and Wireless communications laboratory at the University of Bridgeport. These classes attracted countless talented students in the School of Engineering, School of Business, and the School of Arts and Sciences. Many of the students won regional and international prizes.

Digital logic	(CpE 210)	sophomore
Embedded System Design	(CpE 387)	Junior
Data Communications/Networks	(CpE 471)	Senior/Graduate
Database Design	(CS 450)	Senior/Graduate
Performance Evaluation of Systems	(CpE/CS 560)	Graduate
Network Security	(CpE/CS 561)	Graduate
Mobile Communications	(CPE481)	Senior/Graduate

Network Administration	(CPE 482)	Senior/Graduate
Wireless Sensor Networks	(CPSE 691)	Graduate
Quantum Computing	(CPEG 606)	Graduate

**Online Instructor**, Graduate InfoSec Program, Computer Science Department, James Madison University, Harrisonburg, Virginia, USA (Summer 2002, 2003)

**Associate Professor**, Computer Science and Engineering Department, University of Bridgeport, Bridgeport, Connecticut, USA (January 2000 – May 2003)

**Associate Professor**, Computer Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. (April 95 – December 99)

**Assistant Professor**, Computer Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. (Sep90-April 95)

Undergraduate

Logic Design I	Sophomore
Computer Architecture I	Junior
Logic Design II	Junior
Data Communications for Business	Junior
Data Communications	Junior
Personal Computers	Senior
Computer Architecture II	Senior
Computer Networks	Senior
Bit slice microprocessor Design	Senior
VLSI RISC Architectures	Senior

Graduate

Architecture and Design of Computer Systems  
Advanced Computer Architecture  
Design of Arithmetic Units  
Foundations of Hardware Design Verification.  
Performance Evaluation of Computer Systems

**Research Associate**, Center for Advanced Computer Studies, University of South Western Louisiana, Lafayette, USA. (May 90 – September 90)

**Research Assistant**, Center for Advanced Computer Studies, University of South Western Louisiana, Lafayette, USA. (May 88 – May 90)

**Teaching Assistant**, Electrical and Computer Engineering Department, University of South Western Louisiana, Lafayette, LA, USA. Different Dept. Courses (Lab instructing, Grading) - 20 hours/week- (August 86 – May 88)

**Tutor**, International Student Office, University of South Western Louisiana, Lafayette, USA. (August 86 – May 90)

**System Programmer**, Gathway computers, Alexandria, Egypt. Participation in the design and implementation of different applications. (August 85 – August 86)

**Lecturer**, Air Defense College, Alex., Egypt. Digital systems and microprocessor courses and labs. -10 hours/week- (April 85 – August 86)

**System Programmer**, Air Defense College, Alexandria, Egypt. Participation in the design and implementation of different data-base applications in the period (January 84 – April 85)

**Lecturer**, Computer Sc. Dept., Alex. University, Egypt. Preparing, consulting, grading, and lab instructing for different department courses. -14 hours/week- (October 83 – August 86)

**Lecturer**, Arab Maritime Transport Academy, Alex., Egypt. Programming Languages courses and Digital lab. -10 hours/week- (August 83 – May 85)

**Programmer**, Computer Center, Achen University, Achen, West Germany. Design of a package for simulating time-sharing systems (July 82 – September 82)

## Research Grants

I was the PI or Co-PI for more than \$2,700,000 of funded research projects in the past twenty years. Sponsors include ARDEC, United Nations, Connecticut NASA Space Grant, CISCO, University of Connecticut START program, University of Bridgeport CTNEXT, Saudi Aramco, and King Abdul Aziz City of Science and Technology (KACST).

1. Principal Investigator, “Cyber Security Certificate Program,” **\$30,000**, New England Board of Higher Education (NEBHE) for the Connecticut Higher Education Tech Talent Accelerator, **Funded**.
2. Principal Investigator, “HomeLoc,” **\$10,000**, Start Preliminary Proof-of-Concept Fund, University of Connecticut, July 2021– June 2022, **Funded**.
3. Principal Investigator, “HomeLoc,” **\$10,000**, Start Preliminary Proof-of-Concept Fund, University of Connecticut, July 2019 – June 2020, **Funded**.
4. Principal Investigator, “HomeLoc,” **\$5000**, CT Next Grant, July 2019 – June 2020, **Funded**.
5. Principal Investigator, “Implementation and Performance Evaluation of Overlay End System Multicast (ESM) for Stable and Fast Streaming of Multimedia Applications over Satellite Networks,” **\$20,000**, CT NASA Space Grant, January 2019 – December 2019, **Funded**.
6. Principal Investigator, “Epilepsy Seizure Detection Using EEG Signals and Smartphone development,” **\$5000**, CT Next Grant, January 2019 – November 2019, **Funded**.
7. Principal Investigator, Cisco Networking Academy, Equipment Grant, **\$16,000**, November 2014, **Funded**.
8. Co-Investigator, “Advanced Technology in Support of Hybrid Projectiles,” FY 2010 Defense Appropriation Request, **\$2.4 million**, January 2010 – July 2012, **Funded**.
9. Co-Investigator, “Hybrid Projectile Vision System,” Imperial Machine and Tool Company, **\$30,000**, April 2010 - July 2010, **Funded**.
10. Co-Investigator, Development of a travel grant, U.S. Army Armament, Research, Development & Engineering Center (ARDEC), **\$5,000**, January 2010, **Funded**.
11. Co-Investigator, “Hybrid Projectile Design,” U.S. Army Armament, Research, Development & Engineering Center (ARDEC), **\$57,688**, August 2008 – June 2009, **Funded**.
12. Principal Investigator, “Implementation and Performance Evaluation of Overlay End System Multicast (ESM) for stable and Fast Streaming of Multimedia Applications,” University of Bridgeport Seed Money Grants, **\$10,000**, August 2008 – May 2009, **Funded**.
13. Principal Investigator, “Mobile Content Manager,” United Nations Development Program (UNDP), Transfer of Knowledge through Expatriate Nationals (TOTKEN) Fund, **\$3,500**, June 2001, **Funded**.
14. Co-Investigator, “Security Implementation and Evaluation of Aramco Enterprise Network,” Saudi Armco, **\$53,175**, May 1999- May 2000, **Funded**.
15. Principle Investigator, “A Formal Methodology for Parallel VLSI Algorithm Design,” King Abdul Aziz City of Science and Technology (KACST), **\$78,000** January 1993- December 1995, **Funded**.

## Ph.D. Dissertation Supervision

I was the Ph.D. dissertation advisor for 27 graduated students, and I am currently the advisor of 5 students. Ph.D. students in my research group won more than forty awards at the state and national levels for their research papers and posters. Many have participated in funded research projects and published their research results in quality journals and conferences.

1. Suparshya Babu Sukhavasi, A Hybrid Model For Driver Emotion Detection Using Feature Fusion Approach
2. Susrutha Babu Sukhavasi, Deep Neural Network Approach for Pose, Illumination, and Occlusion Invariant Driver Emotion Detection, June 2022.
3. Fahad Alswaina, Proposed Framework for Improving Performance of Familial Classification in Android Malware, July 2020.
4. Samuel Kofi Erskine, Secure Intelligent Vehicular Network Including Real-Time Detection of Dos Attacks in IEEE 802.11p Using Fog Computing, May 2020.
5. Zakareya Lasefr, Innovative Machine Learning Techniques for Epilepsy seizure detection using EEG signals, May 2020.
6. Jasem Al Almotiri, A Multi-Anatomical Retinal Automatic Eye Screening Using Morphological Adaptive Fuzzy Thresholding, December 2018.
7. Wafa Elmannai, A Highly Accurate and Reliable Data Fusion Framework for Guiding Visually Impaired, May 2018.
8. Majid Alshammari, Efficient and Secure Key Distribution Protocol for Wireless Sensor Networks, May 2018.
9. Remah Alshinina, Efficient Actor Recovery Paradigm for Wireless Sensor and Actor Networks, May 2018.
10. Reem Mahjoob, Efficient Actor Recovery Paradigm for Wireless Sensor and Actor Networks, December 2017.
11. Abdulbast A. Abushgra, A New QKD Protocol Based Upon Authentication By EPR Entanglement State, December 2017.
12. Sumaya Abusaleh, A Novel Framework for Supervised Classification of Explosion Phenomena, December 2017.
13. Muneer Alshowkan, Deterministic and Efficient Three-Party Quantum Key Distribution, December 2017.
14. Ramadhan Mstafa, Efficient and Robust Video Steganography Algorithms for Secure Data Communication, May 2017.
15. Adwan Alanazi, An Optimized Hidden Node Handling Approach for Improving the Coverage and Network Efficiency in Wireless Multimedia Sensor Networks, May 2017.
16. Abrar Alajlan, A Highly Reliable, Low Power Consumption, Low-Cost Multisensory Based System for Autonomous Navigational Mobile Robot, December 2016.
17. Marwah Almasri, Multi Sensor Fusion Based Framework for Efficient Mobile Robot Collision Avoidance and Path Following System, December 2016.
18. Bandar Alotaibi, Empirical Techniques to Detect Rogue Wireless Devices, December 2016.
19. Naser Alajmi, A Multi-Layer Approach For Detection of Selective Forwarding Attacks in Wireless Sensor Networks, December 2016.
20. Samir Hamada, Innovative Techniques for the Implementation of Adaptive Mobile Learning Using The Semantic Web, May 2016.
21. Ibrahim Alkore Alshalabi, An Automated Adaptive Mobile Learning System Using Optimal Shortest Path Algorithms, May 2016.
22. Ammar Odeh, Robust Text Steganography Algorithms for Secure Data Communications, May 2015.
23. Abdul Razaque, Modular Energy Efficient Protocols for Lower Layers of Wireless Sensor Networks, May 2015
24. Laiali Almazaydeh, An Interactive, Real-time, High Precision And Portable Monitoring System of Obstructive Sleep Arena, August 2013.
25. Ali Elrashedi, A new Analytical Performance Model for Cylindrical Microstrip Printed Antenna, August 2012.
26. Mohammed A. Abuhelaleh, SOOAWSN: A secure object oriented architecture for wireless sensor networks, May 2011.
27. Syed Rizvi, A Generic Optimized Time Management Algorithms (OTMA) Framework for Simulating Large-Scale Overlay Networks, December 2010.

#### **MS Thesis Supervision (Partial List)**

- Topological Design of Enterprise Networks

- A Hardware Model of An expandable RSA Cryptographic System
- Evaluation and Comparison of Internet Firewalls
- Designing a Self-Timed ALU
- Organization of Parallel Memories
- Design and Modeling of a Real-Time RISC Processor
- Backend Design of a Formal High-Level Synthesis System
- A BIST for a Histogrammer Memory Chip

### Senior Project Supervision (Partial list)

- Design of Residue Number System Arithmetic Processors.
- Performance Study of High-Speed Adders
- Implementation of an Optimal Algorithm for RNS Arithmetic Processor Design
- Performance Study of RISC Processors
- Formal Hardware Verification
- A MIPS-X RISC Processor Emulator.
- An RNS Processor Emulator using Occam and Transputer.
- Hardware Verification Using an Expert System Shell
- Interfacing D/A and D/A Converters to a Transputer Based Machine
- A Transputer Based Sonar Range Finding
- Implementation of a new data link layer Protocol
- Analysis and study of Routing Protocols
- Design and implementation of academic department database
- Translation of Web page to the Arabic language

### Honors

I am the recipient of the Distinguished Professor of the Year Award of the University of Bridgeport in the academic year 2005. I am also the recipient of the 2015 Connecticut Quality Improvement Award (CQIA) Gold Innovation Award. In December 2017, I was elected Fellow of the African Academy of Sciences to recognize my contributions to Wireless Sensor Networks and Wireless Communications. In 2020, I received the IEEE Connecticut Section Outstanding Member in Academia.

1. Recipient of the IEEE Connecticut Section Outstanding Member in Academia 2020.
2. Selected Fellow of the African Academy of Sciences, 2017.
3. Recipient of the 2015 Connecticut Quality Improvement Award (CQIA) Gold Innovation Prize.
4. Distinguished Professor of the Year, University of Bridgeport, the academic year 2006-2007.
5. Nominated for University of Bridgeport Distinguished Professor for academic years 2004 and 2005. Prof. Elleithy was one of two finalists.
6. Nominated for King Fahd University of Petroleum and Minerals for Best Teacher Award.
7. Distinguished Annual evaluation by KFUPM for 10 years in research, teaching and community services.
8. Honored at the "Academic Honors Day" of the University of South Western Louisiana for superior scholastic achievement, April 1988.
9. Certificate of Merit, Air Defense College, Alexandria, Egypt, April 1985.
10. Badge of honor and Decoration, Graduation with the highest grade "Distinction with Degree of Honor" Egyptian Engineering Syndicate, June 1983.
11. Badge of honor and Decoration, Model student of Alexandria University for academic year 81/82, Alexandria University, Egypt, April 19882.
12. Highest Scholarship, "Distinction" grade during all academic years, Alexandria University, Egypt, October 1978 - June 1983.

## **Awards**

1. Muhammad Wasimuddin, Khaled Elleithy, Shakour Abuzneid, Miad Faezipour, Omar Abuzaghhleh, First Place Best Doctoral Student Poster Award, Faculty Research Day, Bridgeport, CT, April 2021.
2. Suparshya Babu Sukhavasi, Susrutha Babu Sukhavasi, Khaled Elleithy, Shakour Abuzneid, Second Place Best Doctoral Student Poster Award, Faculty Research Day, Bridgeport, CT, April 2021.
3. Mohamed Mohamed, Khaled Elleithy, Third Place, Commercialization Posters, Equity Award, Faculty Research Day, Bridgeport, CT, April 2021.
4. Khaled Elleithy and Thomas Arciuolo, Best Paper Presentation Award, 2020 IEEE 11th Annual Ubiquitous Computing, Electronics, and Mobile Communication Conference (UEMCON), Virtual Conference, October 28-31, 2020.
5. Mikeera Brown, Michael Joseph, Shawnoah Pollock, and Khaled Elleithy, Best Paper Award, 2019 IEEE 10th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON), Manhattan, NY, October 10-12, 2019.
6. Jasem Almotiri, Khaled Elleithy and Abdelrahman Elleithy, Best paper in Applications track, IEEE Long Island Systems, Applications, and Technology Conference, May 2018.
7. Jasem Almotiri, Khaled Elleithy, and Abdelrahman Elleithy, Best Graduate Student Poster Award, ASEE American Society Engineering Education North East Conference, University of Hartford, Hartford, CT, April 2018.
8. Wafa M. Elmannai and Khaled Elleithy, Best Graduate Student Poster Award, Connecticut Symposium on Microelectronics & Optoelectronics, University of Connecticut, CT, April 2018.
9. Eugene P. Gerety and Khaled Elleithy, Best Graduate Student Poster Award, Connecticut Symposium on Microelectronics & Optoelectronics, University of Connecticut, CT, April 2018.
10. Jasem Almotiri, Khaled Elleithy, and Abdelrahman Elleithy, Best Graduate Student Poster Award, Connecticut Symposium on Microelectronics & Optoelectronics, University of Connecticut, CT, April 2018.
11. Wafa Elmannai and Khaled Elleithy, First Place Best Doctoral Student Poster Award, Faculty Research Day, Bridgeport, CT, March 2018.
12. Susrutha Babu Sukhavasi and Khaled Elleithy, Third Place Best Doctoral Student Poster Award, Faculty Research Day, Bridgeport, CT, March 2018.
13. Mohamed Mohamed and Khaled Elleithy, Second Place Best Graduate Student Poster Award, Faculty Research Day, Bridgeport, CT, March 2018.
14. Eugene Gerety and Khaled Elleithy, Best Student Poster Award, ASEE American Society Engineering Education North East Conference, University of Lowell, Lowell, MA, May 2017.
15. Wafa Elmannai and Khaled Elleithy, Best Graduate Student Poster Award, Connecticut Symposium on Microelectronics & Optoelectronics, University of Connecticut, CT, April 2017.
16. Reem Mahjoob and Khaled Elleithy, Best Graduate Student Poster Award, Connecticut Symposium on Microelectronics & Optoelectronics, University of Connecticut, CT, April 2017.
17. Eugene Gerety and Khaled Elleithy, Best Graduate Student Poster Award, Connecticut Symposium on Microelectronics & Optoelectronics, University of Connecticut, CT, April 2017.
18. Razan Abdulhammed and Khaled Elleithy, First Place Best Doctoral Student Poster Award, Faculty Research Day, Bridgeport, CT, March 2017.
19. Eugene Gerety and Khaled Elleithy, Second Place Best Doctoral Student Poster Award, Faculty Research Day, Bridgeport, CT, March 2017.
20. Naser M. Alajmi and Khaled Elleithy, Best Paper in the Technology Track, Best paper in Technology track, IEEE Long Island Systems, Applications, and Technology Conference, May 2016.
21. Zakareya Lasefr and Khaled Elleithy, First Place, Student Poster Award for Doctoral Category, Faculty Research Day, University of Bridgeport, Bridgeport, CT, 2016.
22. Marwah Almasri and Khaled Elleithy, Student Poster Award for Doctoral Category, Faculty Research Day, University of Bridgeport, Bridgeport, CT, 2016.
23. Abrar Alajlan, Marwah Almasri and Khaled Elleithy, Fourth place Poster award, ASEE Conference, Rhode Island, 2016.
24. Zakareya Lasefr and Khaled Elleithy, Honorable mention, ASEE Conference, Rhode Island, 2016.
25. Wafa Elmannai: Advisor - Khaled Elleithy, UPE \$2500 Scholarship, 2015.

26. Abrar Alajlan, Marwah Almasri and Khaled Elleithy, Best paper in Applications track, IEEE Long Island Systems, Applications and Technology Conference, 2015.
27. Wafa Elmannai: Advisor - Khaled Elleithy, Highest Standard Oil Academic Accomplishments, \$1,000 Award, May 2015.
28. Abdulbast Abushgra and Khaled Elleithy, Best Student Poster Award for Doctoral Category, Faculty Research Day, University of Bridgeport, Bridgeport, CT, 2015.
29. Wafa Elmannai: Advisor - Khaled Elleithy, \$20,000 award, Association of University Women International Fellowship for 2015-16, 2015.
30. Wafa Elmannai: Advisor - Khaled Elleithy, Recipient of the Collegian Innovation & Leadership Award, Connecticut Technology Council 2015 Women of Innovation Awards, 2015.
31. Mostafa Ramadhan and Khaled Elleithy, Fourth place honorable mention Poster Award, ASEE Conference, Boston, 2015. Wafa Elmannai and Khaled Elleithy, Third Place, Student Poster Award for Doctoral Category, Faculty Research Day, University of Bridgeport, Bridgeport, CT, 2015.
32. Ammar Odeh: Advisor: Khaled Elleithy, UPE \$750 Scholarship, 2014.
33. Muneer Alshowkan and Khaled Elleithy, Second Place, Student Poster Award for Doctoral Category, Faculty Research Day, University of Bridgeport, Bridgeport, CT, 2014.
34. Wafa Elmannai and Khaled Elleithy, Best Professional Paper Award, ASEE Conference, University of Bridgeport, Bridgeport, CT, 2014.
35. Tamer Youssef and Khaled Elleithy, Second Place Student Poster Award, ASEE Conference, University of Bridgeport, Bridgeport, CT, 2014.
36. Marwah Almasri: Advisor - Khaled Elleithy, UPE \$750 Scholarship, 2013.
37. Laiali Almazaydeh and Khaled Elleithy, Best Graduate Paper Award, ASEE Conference, Norwich University Northfield, VT, 2013.
38. Sumaya Abusaleh and Khaled Elleithy, Fourth place honorable mention Poster award, Faculty Research Day, Bridgeport, CT, 2012.
39. Wafa Elmannai: Advisor - Khaled Elleithy, UPE \$1250 Scholarship, 2012.
40. Laiali Almazaydeh and Khaled Elleithy, Fourth place honorable mention Poster award, ASEE Conference, University of Massachusetts, Lowell, MA, 2012.
41. Laiali Almazaydeh: Advisor - Khaled Elleithy, UPE \$1,500 Scholarship, 2011.
42. Eugene Gerety and Khaled Elleithy, Second Place, Student Poster Award, ASEE Conference, University of Bridgeport, Bridgeport, CT, 2011.
43. Eugene Gerety and Khaled Elleithy, Best Student Poster Award, Faculty Research Day, Bridgeport, CT, 2011.
44. Syed Rizvi and Khaled Elleithy, Best Poster Award, ASEE Conference, University of Bridgeport, Bridgeport, CT, 2009.
45. Syed Rizvi and Khaled Elleithy, Best Paper Award, 13th IEEE Symposium on Computers and Communications (ISCC'08), Marrakech, Morocco, 2008.

## Professional Societies

I have been actively involved with numerous professional societies during the past 30 years, including the Institute of Electrical Engineering (IEEE), Association for Computing Machinery (ACM), American Society of Engineering Education (ASEE), and the African Academy of Sciences.

- Senior Member of the IEEE computer society since 2013.
- Member of the Association of Computing Machinery (ACM) since 1990.
- Member of ACM SIGARCH (Special Interest Group on Computer Architecture) since 1990.
- Member of the honor society of Phi Kappa Phi University of South Western Louisiana Chapter since April 1989.
- Member of Circuits & Systems society since 1988.
- Member of the IEEE computer society since 1988.
- Member of the Egyptian Engineering Syndicate since June 1983



## **Professional Activities**

My involvement includes conference and workshop organizations, leadership, journal editing, and many other endeavors. I am the editor or co-editor of fourteen published books by Springer.

### Conference Chair

- Chairman, 2020 Annual Conference Northeast Section (ASEE-NE), University of Bridgeport, October 16 – 17, 2020.
- Chairman, Annual IEEE Connecticut Conference on Industrial Electronics, Technology & Automation, Bridgeport, October 14 - 15, 2016.
- Co-Chairman, Conference of the American Society for Engineering Education, Bridgeport, Connecticut, U.S.A, April 3 – 5, 2014.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 14), December 2014, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 13), December 2013, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 12), December 2012, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 11), December 2011, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 10), December 2010, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 09), December 2009, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 08), December 2008, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 07), December 2007, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 06), December 2006, Virtual Conference.
- Chairman, International Joint Conferences, on Computer, Information, and Systems Sciences, and Engineering, (CIS2E 05), December 2005, Virtual Conference.
- Chairman, IEEE International Conference on Industrial Electronics, Technology & Automation, IETA 2001, 19-21 December 2001, Cairo – Egypt.

### Membership in Technical Committees

1. Member, 2010 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2010.
2. Member, 2009 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2009.
3. Member, 2008 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2008.
4. Member, 2007 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2007.
5. Member, 2006 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2006.
6. Member, Program Committee of World Multiconference on Systemics, Cybernetics and Informatics (SCI 2006) Orlando, USA, July 2006.
7. Member, 2005 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2005.
8. Member, Program Committee of World Multiconference on Systemics, Cybernetics and Informatics (SCI 2005) Orlando, USA, July 2005.

9. Member, 2004 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2004.
10. Member, 2004 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2004. Member, World Multiconference on Systemics, Cybernetics and Informatics (SCI 2004) Orlando, USA, July 2004.
11. Member, 2003 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Canada, July 2003.
12. Member, 2003 International Program Committee of the 15th International Conference on Parallel and Distributed Computing and Systems in Marina del Rey, CA, USA, November 3-5, 2003.
13. Member, 2003 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Calgary, Canada, July 2003.
14. Member, 7th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2003) Orlando, USA, July, 2003.
15. Member, 2002 International Program Committee of the 14th International Conference on Parallel and Distributed Computing and Systems in Cambridge (USA), November 4-6, 2002.
16. Member, 6th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2002) Orlando, USA, July, 2002.
17. Member, 2002 Program Committee of Workshop on System-on-Chip for Real-Time Applications, Banff, Canada, July 6-7, 2002
18. Member, International Program Committee of the 13th International Conference on Parallel and Distributed Computing and Systems (PDCS'01) in California (USA), August 21 - 24, 2001
19. Member, Technical Committee of 2001, Applied Informatics (AI) 2001, February 19-22, 2001 Innsbruck, Austria
20. Member, Program Technical Committee of the 2001 IEEE International Conference on Robotics and Automation in Seoul, Korea. Member, Program Technical Committee of the 2000 IEEE Workshop on SIGNAL PROCESSING SYSTEMS (SiPS) Design and Implementation, October 11-13, 2000, Lafayette, Louisiana.
21. Member, Program Technical Committee of 8<sup>th</sup> IEEE Great Lake Symposium on VLSI, GLS'98, February 1998, Lafayette, Louisiana.
22. Member, Program Technical Committee of Conference on Parallel and Distributed Computing and Systems, PDCS 97, June 1997, Barcelona.
23. Member, Program Technical Committee of Eighth IASTED International Conference on Parallel and Distributed Conference, October 1996, Chicago.
24. Member, Program Technical Committee of seventh International Conference on Microelectronics, December 1995, Malaysia.
25. Member, Program Technical Committee of 37th IEEE Midwest Symposium on Circuits and Systems, August 3-5, Lafayette, LA, USA, 1994.
26. Member, Program Technical Committee of Sixth International Conference on Microelectronics, September 5 - 7, Istanbul, Turkey, 1994.
27. Member, Program Technical Committee of fifth International Conference on Microelectronics, December 13-16, 1993, Dhahran, Saudi Arabia.

#### Membership in Standing Committees

**Member**, IASTED Standing Technical Committee on Parallel and Distributed Computing and Systems. The committee is responsible for the planning and organization of IASTED activities such as meetings and publications.

**Member**, American Biographical Institute Research Board of Advisors. The American Biographical Institute publishes the following biographical reference works since 1967:

*The International Directory of Distinguished Leadership*

*The International Who's Who of Professional and Business Women*

*The Dictionary of Leading Americans and the World Who's Who of Women*

### Editorial

- Editor Board Member, Electronics, MDPI.
- Editor Board Member, Communications, MDPI.

### **Published Work**

I am one of the most active researchers at the University of Bridgeport. I have over 400 published research papers in national/international journals and conferences with more than 3,850 Google Scholar citations.

### Books

1. Khaled Elleithy and Tarek Sobh, 2016 Annual Connecticut Conference on Industrial Electronics, Technology and Automation (CT-IETA), IEEE Xplore, 2016, ISBN 978-3-319-06764-3
2. Tarek Sobh, and Khaled Elleithy, 2015 U.S. Higher Education Faculty Awards, Vol. 3, River Publishers Series, 2015, ISBN 9788793379022
3. Tarek Sobh, and Khaled Elleithy, 2015 U.S. Higher Education Faculty Awards, Vol. 2, River Publishers Series, 2015, ISBN 9788793379015
4. Tarek Sobh, and Khaled Elleithy, 2015 U.S. Higher Education Faculty Awards, Vol. 1, River Publishers Series, 2015, ISBN 9788793379008
5. Khaled Elleithy and Tarek Sobh, *New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering*, Springer 2015.
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#### Presentations in Conferences and Meetings

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2. "A Novel Fault Self-Detectable Universal Quantum Reversible Circuits Array Design," 2018 IEEE 9th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON),

- Manhattan, NY, November 9-11, 2018.
3. "Buffer-Overflow and Noise-Handling Model: Guaranteeing Quality of Service Routing for Wireless Multimedia Sensor Networks," The International Conference on Engineering Technologies & Entrepreneurship 2015, Kuala Lumpur, Malaysia, 16-18 November 2015.
  4. "A Multi-Layer Framework for Detection Selective Forwarding Attacks in WSNs," The International Conference on Engineering Technologies & Entrepreneurship 2015, Kuala Lumpur, Malaysia, 16-18 November 2015.
  5. "Advancing Wireless Sensor Networks Performance over Radio Trigger Wake-Up Capabilities," CAINE-2014, 27th International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, October 13-15, 2014.
  6. "A Dynamic Clustering Algorithm for Object Tracking and Localization in WSN," CAINE-2014, 27th International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, October 13-15, 2014.
  7. "Developing Network Security Protocol using Key Pre-Distribution for Wireless Sensor Network," CAINE-2014, 27th International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, October 13-15, 2014.
  8. "Cost Analysis of 5th Generation Technology," CAINE-2014, 27th International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, October 13-15, 2014.
  9. "Optimized Cooperative Localization Technique Based on Linear Intersection over Wireless Sensor Networks," CAINE-2014, 27th International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, October 13-15, 2014.
  10. "Steganography in Arabic Text Using Full Diacritics Text," CAINE-2012, 25<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, November 14 – 16, 2012.
  11. "Development of OSA Event Detection Using Threshold Based Automatic Classification," CAINE-2012, CAINE-2012, 25<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, November 14 – 16, 2012.
  12. "Optimized Algorithm for Fire Detection over WSN using Micaz Motes," CAINE-2012, 25<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, November 14 – 16, 2012.
  13. "Efficient and Optical Character Recognition Algorithm for Signature Recognition," CAINE-2012, 25<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, November 14 – 16, 2012.
  14. "Parallel Processing for Multi Face Detection and Recognition," CAINE-2012, 25<sup>th</sup> International Conference on Computer Applications in Industry and Engineering, New Orleans, Louisiana, November 14 – 16, 2012.
  15. "Underwater Wireless Sensor Network Communication Using Electromagnetic Waves at Resonance Frequency 2.4 GHz," 15th Communications and Networking Simulation (CNS'12) Symposium, Orlando, FL, USA, March 26 - 29, 2012.
  16. "A Use of Matrix with GVT Computation in Optimistic Time Warp Algorithm for Parallel Simulation, 15th Communications and Networking Simulation (CNS'12) Symposium, Orlando, FL, USA, March 26 - 29, 2012.
  17. "Security in Wireless Sensor Networks: Key Intrusion Detection Module in SOOAWSN," 14th Communications and Networking Simulation (CNS'11) Symposium, Boston, April 4 – 7, 2011.
  18. "A Generic Optimized Time Management Algorithms (OTMA), Framework for Simulating Large- Scale Overlay Networks," 14th Communications and Networking Simulation (CNS'11) Symposium, Boston, April 4 – 7, 2011.
  19. "Transformation Matrix Algorithm for Reducing the Computational Complexity of Multiuser Receivers for DS-CDMA Wireless Systems," Wireless Telecommunication Symposium (WTS 2007), Pomona, California, April 26-28, 2007.
  20. "Implementations of Location Awareness Technologies and their Applications" Wireless Telecommunication Symposium (WTS 2007), Pomona, California, April 26-28, 2007.
  21. "Implementation and Comparison of Denial of Service Attack Techniques," the 8th World Multiconference

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22. "A Framework for Reverse Engineering VLSI Chips," IFAC Conference on Intelligent Control and Signal Processing, Portugal, April 2003.
  23. "Support of a Banking System Using WAP," The 6th World Multiconference on systemics, cybernetics, and Informatics, Orlando, USA, July 14-18, 2002.
  24. "Simulation and Improvement of IMT2000 Power Control," The 6th World Multiconference on systemics, cybernetics, and Informatics, Orlando, USA, July 14-18, 2002.
  25. "E-commerce" Public Lecture organized by Royal Commission at Jubail, Saudi Arabia, December 1999.
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  28. "A Genetic Algorithm for Register Allocation" 9<sup>th</sup> Great Lake Symposium on VLSI, Michigan, March 1999.
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  30. "Net Security" Information Technology Center Internal Seminar for ITC Staff, Dhahran, Saudi Arabia, November 1998.
  31. "Internet/Intranet for Business" Dhahran 15<sup>th</sup> Annual Computer, Communication & Office Technology Exhibition, October 17-22, 1998.
  32. "HOOVER: Hardware Object-Oriented Verification," 8<sup>th</sup> Great Lake Symposium on VLSI, GLS'98, Lafayette, Louisiana, February 1998.
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  35. "Electronic Commerce," Annual Computer Exhibition, KFUPM, April 1997.
  36. "Formal Hardware Verification," ICS/COE Fall Seminar Series, KFUPM, December 1996.
  37. "Choosing System Moduli in RNS," ICS/COE Fall Seminar Series, November 1996.
  38. "Choosing System Moduli for RNS Arithmetic Processors," 30<sup>th</sup> Annual Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, California, November 3-6, 1996.
  39. "Synthesis of Digital Signal Processing Algorithms from Formal Descriptions," The Sixth International Conference on Signal Processing Applications and Technology, Boston, October 24-26, 1995.
  40. "An Event Logic Architecture for CIRCAL Algorithms," The Seventh IASTED International Conference on Parallel and Distributed Computing and Systems, Washington, D. C., October 18-21, 1995.
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  42. "Formal Verification of DSP VLSI Architectures," International Conference on Electronics, Circuits and Systems, Cairo, Egypt, December 19-22, 1994.
  43. "Formal Environments for Parallel Hardware Description Languages," International Conference on Electronics, Circuits and Systems, Cairo, Egypt, December 19-22, 1994.
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51. "RISC Architectures," Information & Computer Science Department Spring Lecture Series, King Fahd University, May 1992.
52. "Foundations of Hardware Design Correctness," Computer Engineering Department, King Fahd University, December 1991.
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