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Bio

Ashraf received a PhD in Computer Science from UTM University. Master Degree in Computer Science from Colorado University. Bachelor Degree in Computer Engineering from Cairo University. He has 20 years teaching experience, teaching Software Engineering, Networking and Computer Security, Object Oriented Programming, Operating Systems, and Computer Gaming. Ashraf Has 10 Years software and hardware industrial experience. His research interests focus on Software engineering, Networking, Artificial Intelligence, and Bioinformatics specially the health effect of EMF radiation, including 5G Technology.

Courses Taught: Software Engineering, Computer Gaming, Networking and Computer Security, Object Oriented Programming, Operating Systems, and Computer Gaming.

Degrees Earned: PhD in Computer Science from UTM University, Master Degree in Computer Science from Colorado University, Bachelor Degree in Computer Engineering from Cairo University

Research areas of interest: Software engineering, Computer Gaming, Networking, Artificial Intelligence, and Bioinformatics specially the health effect of EMF radiation, including 5G Technology.

Projects

- **Software project with Colorado University (USA)** to study the connectivity of Hyper-Rings Distributed Networks and create a software system to calculate the connectivity and conductivity of hyper-ring distributed networks.
- **Two Software project with Colorado MEDtech Company USA**, full life cycle development to create software system to operate blood sample test machines.
- **Project with Colorado University (USA)** to test the effects of EMF on human immune system. I have achieved a novel results, which is EMF from mobiles affect the human cells after 2.5 minutes, and I answer the question “is there effect of mobiles radiation on human cells” by yes with confirmed evidence.
- **Software project with the Al Ain Distribution Company (AADC)** and the students to develop and launch a new eBusiness application to an electronic sale kiosk (eKiosk), enhanced technology product known as the AADC eKiosk. The AADC is dedicated to provide e-Services that allow customers to view online information such as their Personal Information, Account Information, Bill Information, consumption history and moreover allow them to easily pay their bills through various options of payment methods.
- **3D Game Design Modeling projects**, Supervisor for student capstone Gaming projects.
- **Project with UTM University, Image Processing project** to develop and implement a software automated system to detect and track the mobility of the living cells and calculate velocity and changing shape of the cells.
- **Project with Martin Co., the city of Inez**, and the Dream Discovery Center, for the SOAR/KARD grant RFP. We will be offering a STEM summer camp for regional students that doubles as a professional development opportunity for teachers.
- **LMU Project**, to teach Computer Programming to High School students.
- **Internship advisor**, for student Software Engineering Projects.

Memberships

- 21st Century and STEM Curriculum development and implementation.
- Journal Editorial board member for several Journals. Member of the Research Gate, my publications reached 13, 418 reads on the gate.

Publications

- Ashraf A. Aly, and Frank S. Barnes, Effects of 900-MHz Radio Frequencies on the Chemotaxis of Human Neutrophils in Vitro, IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, VOL. 55, NO. 2, FEBRUARY 2008.
- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki, “A new Algorithm for Cell Tracking Technique ”(*ACIJ Journal*, Vol.2, No.6, November 2011).
- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki, “Research Review For Digital Image Segmentation Techniques. *International Journal of Computer Science & Information Technology (IJCSIT)*. Vol 3, No 5, Oct 2011.
- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki, "The Effects on Cells Mobility Due to Exposure to EMF Radiation", *Advanced Computing: An International Journal (ACIJ)*, Vol.2, No.4, July 2011.

- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki, "A Novel Image Segmentation Enhancement Technique Based On Active Contour and Topological Alignments ", *Advanced Computing: An International Journal (ACIJ)*, Vol.2, No.3, May 2011.
- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki, "Intelligent Algorithms for Cell Tracking and Image Segmentation", *International Journal of Computer Science & Information Technology (IJCSIT) Vol 6, No 5*, October 2014.
- Ashraf A. Aly, Melinda Picket-May, "FDTD Computation For SAR Induced In Human Head Due To Exposure To EMF From Mobile Phone", *Advanced Computing:An International Journal (ACIJ)*, Vol. 5, No. 5/6, November 2014.
- Ashraf A. Aly, Tom Altman, "An Efficient Algorithm To Calculate The Connectivity Of Hyper-Rings Distributed Networks ", (*IJITCS*) Vol.6, No.2/3, June 2016.
- Ashraf A. Aly, " Cell Tracking Quality Comparison between Active Shape Model (ASM) and Active Appearance Models (AAM)-Based Tracking ", (*IJITCS*), Vol.6, No.4, August 2016.
- Ashraf A. Aly, " Research Review For Possible Relation Between Mobile Phone radiation And Brain Tumor", (*IJITCS*), Vol.6, No.4, September 2016.
- Ashraf, Aly, "The Facts About 5G Technology Network Systems Environment". *International Journal of Computer Science & Information Technology (IJCSIT)*. (In Press).
- Ashraf, Aly, "The new 5G mobile communication technology bioeffects On Human Health". *International Journal of Computer Science & Information Technology (IJCSIT)*. (In Press)

Conferences

- Ashraf A. Aly, Tom Altman (1999), Reliable communication Schemes in Hyper-Rings Distributed Networks (Thesis), Communication Conference, Colorado, USA.
- Ashraf Aly and Melinda Picket-May , FDTD computation for SAR induced in human head due to exposure to EMF from mobile phone, UAE Mathematics DAY 2006.
- Ashraf A. Aly, Frank S. Barnes (2004), Radio Frequency Radiation Effects on Human Neutrophils in Vitro, URSI International radio Science Conference, Colorado, USA.
- Ashraf A. Aly, Frank S. Barnes (2004), Radio Frequency Radiation Effects on Human Neutrophils in Vitro, Butcher Symposium on Genomics and Biotechnology International Conference, Colorado, USA.
- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki. "Research review on the biological effect of cell phone radiation on human", IEEE 8th Innovation, Al Ain-UAE December 2008.
- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki. " Electromagnetic field emitted by 1800 MHz GSM mobile phone cause damage and affect the activity of human leukocytes in vitro", IEEE IRI 2009 International Conference on Information Reuse and Integration, Las Vegas, USA, August 2009.
- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki. "Evaluation Review For Digital Segmentation Methods", The fourth international Conference on
- Developments in eSystems Engineering (DESE 2011). December 6th- 8th, 2011, Dubai, UAE.
- Ashraf A. Aly, Safaai Bin Deris, Nazar Zaki. " Intelligent Techniques for Image Segmentation in CellTracking and Mobility A nalysis", 7th international Conference on innovation in information technology, Abu Dhabi-UAE, April 2011.

- Ashraf A. Aly," A SURVEY OF BIOMETRICS AND ITS DETECTION METHODS", The 12th International Conference on Computer Science and Information Technology (ICCSIT 2019) University of Barcelona, Spain December 18-20, 2019.