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Professor(full), Computer science and information systems  
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## EDUCATION

Cairo University, Cairo, Egypt 2002-2005

**PhD** Information System, 2005

Dissertation: " *Intelligent Information System for Jamming and Anti-Jamming Applications of Electromagnetic Spectrum* "

Cairo University, Cairo, Egypt 1996-2001

**Master** in Computer science and information system,2001

Dissertation: "*Computer – Based System For Unmanned Air Vehicle Mission Planning*"

**High Diploma** (Two years) in Computer science and information sys., (Very Good) 1997

Air War Studies Institute, Egyptian Air Force

1993-1994

**Master** in Aviation Science, 1994

Dissertation: "*Laser Applications in Electronic Warfare to Secure Egyptian Air Force Missions* "

Air Academy, Egypt

1971-1975

**Bachelor** of Aviation Science, 1975.

## ACADEMIC POSITIONS

- \* Professor, College of Computing & Information Technology, Arab Academy for Science, Technology & Maritime Transport, University in Cairo. (2021-now).
- \* Professor, faculty of computer and information sys., Sadat academy. (2021-now)
- \* Professor, Department of Health Information Technology And Management, Faculty of Public Health & Health Informatics, **Umm Al-Qura** University.2019-2021.
- \* Professor, Consultant, Institute of Consulting Research and Studies (ICRS).2018 - 2021
- \* Professor, Department of Engineering and applied science - computers, MCC, UQU. 2011-2018.
- \* Associate Professor, Department of computer science, Faculty of Computer and Information Systems, **Umm Al-Qura** University, 2008, march -2011, Sep.
- \* Assistant Professor of Information System, Department of Information System, **Misr University for Science and technology**, 2006,Jan.- 2008, March.
- \* Assistant Professor of Information System, **Institute of computer & information technology of aviation & aerospace**, 2007,Jan.-2008, Jan.
- \* Visiting Assistant Professor, college of computer and information systems, **Cairo university**, 2006,Jan – 2008, March.
- \* Visiting Assistant Professor, Institute of Administration science and information systems **Ain Shams Academy, New Cairo**, 2007.
- \* Visiting Assistant Professor, Military Air Academy, Air War Studies Institute,
- \* **Airspace Medical Academy.** 1994-2004
- \* **Dean Deputy of Air War Studies Institute** 1996-1998

## **ACADEMIC AWARDS AND HONORS**

- \* Doing duties honestly and faithfully, President of Arab Republic of Egypt, 1996.
- \* Excellent duty medal from the first level, President of Arab Republic of Egypt, 2006
- \* Successful Efforts for evaluation and implementation electronic deception symposium, Egyptian air force air research department chief, 1994.
- \* Excellence Award in activating the e-learning system - first place- Umm Al Qura – 1441H.
- \* Award for Excellence in Enriching Open Content Through Shams System - First Place- Umm Al Qura – 1441H.
- \* Excellence Award in E-Learning from the National Center for E-Learning-1440H
- \* Excellence Award in developing courses - third place- Umm Al Qura – 1442H.

## **COURSES TOUGHT AT UNDER GRADUATE LEVEL**

**Logic design**, Faculty of comp. & inf., Umm Al-Qura, FCI., Sadat academy.

**Introduction to Artificial Intelligence**, Sadat Academy, MUST, Umm Al-Qura.

**Introduction to information systems**, Cairo university & Egyptian Aviation Academy.

**Decision Support Sys. & Expert Sys**, Misr University for Science and technology& E.A.Academy .

**Software engineering**, Misr University for Science and technology.

**Database management sys.**, Institute of comp. & information technology of aviation & Ain Shams Un.

**Geographic information systems**, Institute of computer & information technology of aviation.

**File Organization, Computer Security** Misr University for Science and technology.

**Discrete Structure**, MCC, Umm Al-Qura University. FCI., Sadat academy.

**Knowledge-based systems**, Misr University for Science and technology, Umm Al-Qura.

**Electronic warfare & Jamming calculation**, Air War Studies Institute.

**Computer Architecture**, MCC, Umm Al-Qura University. FCI., Sadat academy.

**Computer programming ( C ++ )**, Makkah Community College, Umm Al-Qura University.

**Advanced programming ( Java )**, Makkah Community College, Umm Al-Qura University.

**Computer Networks**, Faculty of Public Health & Health Informatics, HITM, UQU.

## **COURSES TOUGHT AT POST GRADUATE LEVEL**

**Discrete Structures**, College of Computing & Information Technology, Arab Academy for Science, Technology & Maritime Transport, University in Cairo..

## **Selected Research Articles That Have Been/To Be Published In Referred Journals**

- [1] **MOHAMED OSAMA KHOZIUM et.al** " A Prototype for An Intelligent Information System for Jamming and Anti-jamming Applications of Electromagnetic Spectrum" *Egyptian Informatics Journal*. Vol. 5,No.2, December 2004.
- [2] **MOHMED OSAMA Kamel** " Process Management For Information Security Assessment" *International Arab Conference on Information Technology. The proceedings of ACIT'2006, Jordon.*
- [3] **MOHAMED OSAMA KHOZIUM** " Indicators Classification for Software Assessment" *Egyptian Computer Science (ECS) journal, Volume 28, No2, Sept.,2006, Egypt.*
- [4] **MOHAMED OSAMA KHOZIUM et.al** "Tackling approach for Distributed Systems Resource Allocation", *Egyptian Computer Science (ECS) journal, Volume 29, No1,Jan.,2007, Egypt.*
- [5] **MOHAMED OSAMA KHOZIUM et.al** " Towards Integrated "First Aid System" Using Java" , *First International Conference on Medical Informatics, Misr University for Science and technology, March,19,2007.*

- [6] **MOHAMED OSAMA KHOZIUM et.al** "Java Based Implementation of an Online Home Delivery System", *Ubiquitous Computing and Communication Journal*, Volume 2 No. 4, Published 8/15/2007.
- [7] **MOHAMED OSAMA KHOZIUM** "E-Government: An Arena of Mobile Applications", *Egyptian Computer Science (ECS) journal*, Sep.,2007, Egypt.
- [8] **MOHAMED OSAMA KHOZIUM et.al.** "Using A Pattern Approach For User Interface Design", *The proceedings of ICI7(7<sup>th</sup> International Conference on Information)*, MANSOURA, EGYPT, 12-15 Nov.,2007 .
- [9] **MOHAMED OSAMA KHOZIUM et.al.** " A Proposed Artificial Immune Genetic Algorithm " , *The proceedings of ICI7(7<sup>th</sup> International Conference on Information)*, MANSOURA, EGYPT, 12-15 Nov.,2007 .
- [10] **MOHAMED OSAMA KHOZIUM et.al.** " Medical Care System Using VORD Methodology " , *Ubiquitous Computing and Communication Journal*, Volume 2 No. 4, Published 1/15/2008.
- [11] **MOHAMED OSAMA KHOZIUM et.al.** " Indicators for E-Learning (Delivering Knowledge in Digital Age) Success Measurement ",*The proceedings of The 15th Scientific Conference for Information Systems and Computer Technology, Cairo: 12 – 14 February 2008.*
- [12] **MOHAMED OSAMA KHOZIUM et.al.** " A Hybrid Artificial Immune Genetic Algorithm with Fuzzy Rules for Breast Cancer Diagnosis", *The proceedings of (INFOS2008) The Sixth International Conference on Informatics and Systems Cairo, Egypt, March 27-29, 2008.*
- [13] **MOHAMED OSAMA KHOZIUM et.al.** " Proposed Structure For High Level Security Enhancement", *Ubiquitous Computing and Communication Journal*, Volume 3, Published 6/15/2008.
- [14] **MOHAMED OSAMA KHOZIUM** "Hello Flood Counter Measure for Wireless Sensor Networks", *IJCSS: International Journal of Computer Science and Security*, Volume 2, Issue , Published 9/15/2008.
- [15] **MOHAMED OSAMA KHOZIUM et.al.** " Design and Implementation of An Intelligent Decision Support System for Electronic Warfare " , *Journal of Open Problems in Science and Engineering* , Volume.1, Issue. 2, Nov,2009.
- [16] **MOHAMED OSAMA KHOZIUM** "A Steganography Approach To Electronic Order of Battle (EOB) Storage Management and Security " , *International Journal of Computing & Information Sciences* , Vol. 7, No. 2, January 2010, On-Line
- [17] **MOHAMED OSAMA KHOZIUM et.al.** "PSDD : Prolog-based system for dyslexia diagnosis", *The proceedings of ICI10(10<sup>th</sup> International Conference on Information)*, GAMASA, EGYPT, 4-6 Dec.,2010 .
- [18] **MOHAMED OSAMA KHOZIUM et.al.** " Real-time Crowd Monitoring using Infrared Thermal Video Sequences " , *The journal of American Science*, Volume 8 – Number 3 ( Cumulated No. 48), March 25, 2012
- [19] **MOHAMED OSAMA KHOZIUM et.al.** " A Proposed Computer-Based System Architecture for Crowd Management of Pilgrims using Thermography " , *Life Science journal*, Volume 9 # 2, April, 2012 .

- [20] **MOHAMED OSAMA KHOZIUM** " A Hybrid Intelligent Information System for the Administration of Massive Mass of Hajjis ", *Life Science journal, Volume 9 – Number 4, ISSN : 1097- 8135, ISI & Scopus indexed, Impact Factor-2 Aug. 2012 .*
- [21] **MOHAMED OSAMA KHOZIUM et. Al.** " Integration of Background Removal and Thermography Techniques for Crowd Density Scrutinizing. ", *International Journal of Computing Academic Research (IJCAR) Vol 2 no 1, Feb.,2013*
- [22] **MOHAMED OSAMA KHOZIUM et.al.** " Multi Agent RFID Process In Project Chain Management *International Journal of Management, IT and Engineering Volume 3, Issue 4 April 2013.*
- [23] **MOHAMED OSAMA KHOZIUM** " Multi-Agent System Overview: Architectural Designing using Practical Approach.", *International Journal Of Computers & Technology, Volume 5, No. 2, May -June, 2013.*
- [24] **MOHAMED OSAMA KHOZIUM et.al.**" Agent Vs Object with an in-depth insight to Multi-Agent Systems.", *International Journal of Advanced Research in Computer Science (IJARCS), vol 4, no.5, may-june 2013.*
- [25] **MOHAMED OSAMA KHOZIUM et.al.** " Combination Prediction Model of traffic accident using rough set technology approach." *International Journal of Enhanced Research in Science Technology & Engineering, ISSN: 2319-7463, Vol. 3 Issue 1, January-2014, pp: (47-56)*
- [26] **MOHAMED OSAMA KHOZIUM** " An LMS Architectural Design Using Multi-Agent Based System Overview.", *International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4 Issue 3 publishes in March- 2014 .*
- [27] **MOHAMED OSAMA KHOZIUM** " Security Using Hiding Technique : EOB Case Study. ", *International Journal in IT and Engineering, Vol.04 Issue-03, (March, 2016).*
- [28] **MOHAMED OSAMA KHOZIUM et.al.** " UAV Mission Planning using MAS – Common KAD Methodology" *International Journal In IT & Engineering IJITE , Vol 4 issue12, Dec.,2016.*
- [29] **MOHAMED OSAMA KHOZIUM et.al.**" Indirect Holography Breast Cancer Detection System (IH-BCDS) using VORD.", *European Scientific Journal ( ESJ), Vol.13, No.9., March, 2017.*
- [30] **MOHAMED OSAMA KHOZIUM et.al.**" An Intelligent Decision Support System : EW Case Study.", *ECS Journal, Volume 43 Issue 1, Jan., 2019 .*
- [31] **MOHAMED OSAMA KHOZIUM et.al.** " Case Studies for the verification system of UAVs Flight plans " *International Journal of Engineering & Scientific Research (IJESR) , Vol.6 Issue 12, Dec. 2018.*
- [32] **MOHAMED OSAMA KHOZIUM et.al.** A Case Study of IP Camera Monitoring Traffic Verification " *International Journals of Advanced Research in Computer Science and Software Engineering, Vol 8 issue12, Dec.,2018.*
- [33] **MOHAMED OSAMA KHOZIUM et.al.** " Crowd Management Challenges: Tackling Approach for Real Time Crowd Monitoring " *International Journal of Scientific Engineering and Research (IJSER), Volume 7 Issue 1, January 2019.*
- [34] **MOHAMED OSAMA KHOZIUM et.al.** "Smart Cities : Integration of GPS and IoT Approach" *MULTI-K NOWLEDGE Comprehensive Journal For Education And Science Publications (MECSJ), ISSUE (18), Apr.,2019.*

- [35] **MOHAMED OSAMA KHOZIUM et.al.** “Smart Community Challenges : Enabling IoT/M2M Technology Case Study” *Life Science Journal*, 16(7), July, 2019.
- [36] **MOHAMED OSAMA KHOZIUM et.al.** “Community colleges between reality and hopes in light of Saudi vision 2030” *International Journal of Engineering & Scientific Research*, Vol.7 Issue 10, October 2019.
- [37] **MOHAMED OSAMA KHOZIUM et.al.** “Securing The E-Learning Materials Using Digital Watermarking Approach” *International Journal of Innovation Science and Research* , accepted, November 2019.
- [38] **MOHAMED OSAMA KHOZIUM et.al.** “Coping with Rainwater Disasters: Saudi West Coast Cities Urban Planning Case study” *International Journal of Engineering & Scientific Research*, Vol.7 Issue 11, November 2019.
- [39] **MOHAMED OSAMA KHOZIUM et.al.** “Smart Cities: From The Perspective Of Urban Planning And Designing Of Buildings” *International Journal In IT & Engineering IJITE*, Volume 7 Issue 12, December 2019.
- [40] **MOHAMED OSAMA KHOZIUM et.al.** “Avoid sliding residential neighborhoods to random between urban planning and the reality of implementation” *International Journal In IT & Engineering IJITE*, Volume 7 Issue 12, December 2019.
- [41] **MOHAMED OSAMA KHOZIUM et.al.** “Cooperative Business Intelligence Model Using A Multi-Agent Platform ” *Scientific Programming*, Volume 2020, November, 2020.
- [42] **MOHAMED OSAMA KHOZIUM et.al.** “An Automated Approach for Medical Ontology Maintenance System” *Life Science Journal*, Volume 17(11), November, 2020.
- [43] **MOHAMED OSAMA KHOZIUM et.al.** “ A Model for Unified Agile Business Intelligence” *Solid State Technology*, Volume: 63 Issue: 6 Publication Year: 2020.
- [44] **MOHAMED OSAMA KHOZIUM et.al.** “In-Depth Survey to Detect, Monitor and Manage Crowd” *IEEE Access*, Volume 8, December, 2020.
- [45] **MOHAMED OSAMA KHOZIUM et.al.** “Implementation of Artificial Intelligence Based Analyzer Using Multi-Agent System Approach” *Intelligent Automation & Soft Computing*, IASC, vol.31, no. 1 , 2022.
- [46] **MOHAMED OSAMA KHOZIUM et.al.** “Problem Solving in Crowd Management Using Heuristic Approach ” *IEEE Access*, vol. 10, pp. 25422-25434, 2022, doi: 10.1109/ACCESS.2022.3156008.

### **WORKSHOPS and CONSULTING**

**2006** Invited consultant to IDSC (Information and decision support center), Egyptian Cabinet, Workshop about Digital Access Indicator.

**2006** Prepare and supervision of the first training course(work shop), Sudan/Jordan Collage in science and technology.

**2007** *ICI7(7<sup>th</sup> International Conference on Information) organization team, MANSOURA, EGYPT, 12-15 Nov.,2007 .*

**2010** *ICI10 (10th International Conference on Information) Author and session chair, GAMASA, EGYPT, 4-6 December 2010*

**2011** : *25th June at HajjCoRE a discussion on the progress of the CMINS Research Project.*

**2012** : **Jan.**, *a Discussion Forum held by Prof. Mohammad K. Ibrahim, at HajjCoRE. To define the procedures and steps in the generation of the patents and its acceptance.*

**2012** : **Oct.**, *Crowd Management Workshop, Multiple Camera Video Capture of Crowds, at HajjCoRE. HajjCore, UQU, MAKKAH, SA.*

**2012** : **Dec.**, *The First International Conference \_ 5 \_ for Computing & Informatics, ICCI 2012,*

*Program Committee Member at Helwan, Cairo, EGYPT.*

**2013 : May**, E-learning Workshop, , E-learning environment and content development at Deanship of e-learning & distance learning, UQU,MAKKAH, SA..

**2015 : Nov.**, ICI 14 -14th International Conference on Information, Real-Time Crowd Management using Thermogrphy, Delta University for Science and Technology, EGYPT.

**2015 : Dec.**, ICICIS'15 Seventh International Conference on Intelligent computing and Information System, Intelligent Techniques and Technologies for E-Learning, iTel'15 – Scientific Program Committee Faculty of computer and Information science, Ain Shams university, Cairo, EGYPT.

**2018 :** Institute of Consulting Research and Studies (ICRS) Consultant.

**2019 :** MIC “ Member of the institute of consulting... Membership Number P04706797

**2019 :** November : Workshop#1 for project RDO543 setup.

**2020 :** Feb., Workshop RDO543\_1 for project RDO543 simulation software.

**2020 :** April., Workshop RDO543\_2 for project RDO543 simulation experiments.

**2020 :** July, Workshop RDO543\_3 for project RDO543 First paper “ Crowd detection, monitoring and management.

**2020 :** Sep., Workshop RDO543\_4 for project RDO543 First paper “ Modelling of simulation.

**2020 :** Dec., Middle east health conference 2.0 ( Nov., 29 to Dec., 2, 2020 )

**2021 :** Jan., 6TH International Conference on Recent Trends in Computer Science and Electronics, HAWAII, USA, Jan., 5-7,2021.

**2021 :** June, 4TH INTERNATIONAL MULTI-TOPIC CONFERENCE ON ENGINEERING AND SCIENCE ( IMCES), 29-30 June 2021, Jakarta, Indonesia

### **Reviewer in the following journals**

[1] *Egyptian Computer Science (ECS) journal.*

[2] *Automation Journal (Autosoft).*

[3] *Ubiquitous Computing and Communication Journal (UBICC.ORG)*

[4] *IEEE Access.*

### **Principal Investigator for :**

Centre of Research Excellence in Hajj & Umrah (HajjCoRE)

Project title :

**CMINS :** "Intelligent-based Notification System for Crowd Management using Video Analytics Approach".

**Co PI ...** Grand Challenges with India... Project title ... Develop A Real-Time Simulation and Monitoring Mechanism for Massive Crowd Movement with Early Warning Capabilities.2019.

### **Editor in chief for El Esteshary Magazine Published twice a year**

<https://uq.sa/IRkbjL>

### **Evaluate some projects for**

- AL-Imam Muhammad Ibn Saud Islamic University
- Centre of Research Excellence in Hajj Umrah (HajjCoRE)
- Saudi Electronic University (more than ten projects).

### **Evaluation of Scientific Products for promotion to Prof. and Associate prof.**

- JAZAN University (More than seven evaluations to Prof, & Associate Prof.)

Links

Web : <https://khozium.com/>

Research gate : <https://www.researchgate.net/profile/Osama-Khozium>