



Usama Abd El-Raouf Mostafa BADAWI

Assistant Professor and Chair, Department of Management Information Systems

Personal Data

Nationality | Egyptian

Date of Birth | 1-1-1970

Department | Management Information Systems

Official UoD Email | ubadawi@uod.edu.sa

Office Phone No. | 3332158

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
German	Very Good	Very Good	Excellent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2001	Ph.D.	Cairo University	Egypt
1995	M.Sc.	Cairo University	Egypt
1991	B.Sc.	Cairo University	Egypt

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	A Single System Image Supporting Distributed Object
Master	An Object Oriented Mathematical Database
Fellowship	

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Assistant Prof.	University Of Dammam -KSA	2004
Assistant Prof.	Cairo University	2001
Lecturer	Cairo University	1995
Demonstrator	Cairo University	1991



Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Head of MIS Department	Collage of Applied Studies and Community Service – University of Dammam	2011 Till Now
General Security of MIS Forum	Collage of Applied Studies and Community Service – University of Dammam	2013 Till Now

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	HE Refaat, and Usama A. Badawi	High Available Fault Tolerant Technique in Distributed Shared Memory	International Journal of Computer Applications 140 (12) 2016
2	Mutasem K. Alsmadi and Usama A. Badawi	Pattern matching in Rotated Images Using Genetic Algorithm	JKAU: Comp. Sci., Vol. 5, pp: 53 – 59. DOI: 10.4197 / Comp. 5 – 3. 2016
3	N. H. Sweilam, Hatem Moharram, Usama A. Badawi and Omnia Ismail	Online Algorithm Based Fault Tolerance Scheme using Diskless Checkpointing for Solving Sparse Linear Systems.	Journal of Applied Mathematics & Information Sciences. 2015
4	Usama A. Badawi and Mutasem K. Alsmadi (2014)	A General Fish Classification Methodology Using Meta-Heuristic Algorithm With Back Propagation Classifier.	Journal of Theoretical and Applied Information Technology. Vol. 66 No.3. Pp: 803-812. 2014
5	M. K. Alsmadi, Usama A. Badawi and H.M. Moharram	Server failures enabled JavaSpaces service (FTJS)	J. Comput. Sci., 10(4): 671-679. 2014
6	Usama A. Badawi and Mutasem Khalil Sari Alsmadi	A Hybrid Memetic Algorithm (Genetic Algorithm and Great Deluge Local Search) With Back-Propagation Classifier for Fish Recognition.	. IJCSI International Journal of Computer Science Issues; 10(2): 348-356. 2013
7	Mutasem Alsmadi, Usama A. Badawi, Hosam E. Refaat	A High Performance Protocol For Fault Tolerant Distributed Shared Memory (FaTP)	Journal of Applied Sciences; 13 (6): 790-799. 2013
8	Emad O. AlShwaimi, Usama A. Badawi, Ammar Gadeer, Ahmad AlMajed, Aiman A. Ali	Computer Knowledge: A Comparative Study among Dental and Non Dental Students	Al-Azhar Dental Journal. 2013
9	Mutasem Alsmadi, Usama A Badawi, Hosam E Reffat, Shao Qiang, Feng Chanjian, Luo Yuegang, Song Peng	Faults Diagnosis for Automotive Engine Based on Chinin	Journal of Applied Sciences; 13 (23): 5632-5637. 2013
10	M. Abd Allah Makhloof, M. Elsayed Waheed & Usama A. El-Raouf Badawi	Real-time aircraft turnaround operations manager	Production Planning & Control; 25(1): 2-25. 2012



Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Usama Badawi and Mutasem Alsmadi	Differential Diagnosis of Jaw Lesions Using a Hybrid Neutrosoph with Fuzzy C-Means Clustering Algorithm (NFCM) Based on Panoramic X-Ray Images. (PI)	2014- 2015
2	Usama Badawi and Mutasem Alsmadi	A General Fish Classification Methodology Using Meta-heuristic Algorithms (GAILS-BPC and GASA-BPC) with Back Propagation Classifier (PI)	2013-2014
3	Saleh A. AL Rashed, Usama Badawi and Mutasem Alsmadi	Developing The Distance Learning Tools For KSA Universities (CI)	2013-2015
4	Usama Badawi and Mutasem Alsmadi	MRI Image Segmentation Using A Hybrid Of Two Meta-heuristic Algorithms With Fuzzy C-Means Algorithms For Brain Tumor Detection and diagnosis (CI)	2013-2014
5	Usama Badawi and Saleh S. Alrasheed	An Evaluation Study for Gulf Area Governmental Universities Websites (PI)	2010-2011

Current Researches

#	Research Title	Name of Investigator(s)
1	A GENETIC ALGORITHM TO FIND THE MINIMUM COST PATHS TREE WITH BANDWIDTH CONSTRAINT	Ahmed Younes, Usama Badawi and Tamer Hashem
2	FACE IMAGE RECOGNITION BASED ON PATTERN MATCHING USING GENETIC ALGORITHM	Usama Badawi and Mutasem Alsmadi

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	The 46th. IEEE International Midwest Symposium on Circuits & Systems	NRC-Cairo-Egypt-2003	Attending
2	Cluster Computing Workshop (CRS-99-02)	University of Chemintz Chemintz- Germany. 1999	Attending
3	2 nd . International Conference on Engineering Mathematics and Physics Conference, (ICEMP)	Cairo University, Giza. Egypt. 1994	Oral Presentation
4	3 rd . International Association of Science and Technology for Development conference (IASTED)	Ain Shams University, Cairo – Egypt. 1994	Oral Presentation

Membership of Scientific and Professional Societies and Organizations

- Member in the reviewing board of the Journal of parallel and Distributed systems, Elsevier Publications (ISSN: 0743-7315).
- Member in the Reviewing board of the Computer Journal, Oxford University Press (Print ISSN 0010-4620).
- Member in the reviewing board of Journal of Advances in Information Sciences and Service Sciences (ISSN: 1976-3700). (Advanced Institute of Convergence Information Technology, UK)



Teaching Activities

Undergraduate

#	Course/Rotation Title	Place	Extent of Contribution
1	Algorithms and Problem Solving	Cairo University	Instructor
2	Computer Networks and Security	University of Dammam	Instructor
3	Data Structures	Cairo University	Instructor
4	Data Structures and File Processing	University of Dammam	Instructor
5	Database Systems	University of Dammam	Instructor
6	Database Systems	Cairo University	Instructor
7	Decision Support Systems	University of Dammam	Instructor
8	Graduation Projects (for 8 years)	University of Dammam	Instructor
9	Information Security Systems	University of Dammam	Instructor
10	Introduction to Computer	University of Dammam	Instructor
11	Management Information Systems	University of Dammam	Instructor
12	Operating Systems	University of Dammam	Instructor
13	Programming Language (1)	University of Dammam	Instructor
14	Programming Language (2)	University of Dammam	Instructor
15	Programming Fundamentals	University of Dammam	Instructor
16	Special Studies in Programming	University of Dammam	Instructor
17	Systems analysis and Design	University of Dammam	Instructor
18	Systems Programming	Cairo University	Instructor
19	Unified Modeling Language	University of Dammam	Instructor

Postgraduate

#	Course/Rotation Title	Place	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Advanced Database Systems	Cairo University	Instructor
2	Artificial Intelligence	Cairo University	Instructor
3	Advanced Operating Systems	Cairo University	Instructor
4	Parallel and Distributed Systems	Cairo University	Instructor

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	Ph.D.	Data Security Through the Internet	Cairo University	2004
2	Ph.D.	Algorithms for Data Transfer Security Through the Internet	Cairo University	2005
3	M.Sc.	A Mechanism to Integrate Fault Tolerance in a Distributed Shared Memory Based System	Cairo University	2005
4	M.Sc.	Arabic Character Recognition	Cairo University	2004
5	M.Sc.	An Expert System to Simulate Flight Activities Progressions	Cairo University	2005



6	M.Sc.	A new Protocol for Handling Distributed Shared Memory Based Systems	Cairo University	2007
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Administrative Responsibilities, Committee and Community Service
(Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	2011	Now	Head of MIS Department	Collage of applied Studies and Community Service
2	2010	Now	Head of Schedule Commtity	Collage of applied Studies and Community Service
3	2008	2010	Head of Academic Advisory	Collage of applied Studies and Community Service
4	2003	2004	Head of Scientific Committee	Faculty of Science- Cairo University

Committee Membership

#	From	To	Position	Organization
1	2010	Now	Head of Schedule Commtity	Collage of applied Studies and Community Service
2	2008	2010	Head of Academic Advisory	Collage of applied Studies and Community Service
3	2010	2015	Member in the Planning Committee	Collage of applied Studies and Community Service
4	2010	2010	Member in the Planning Committee	Collage of Girls – University of Dammam

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Unix	
2	Windows OS	
3	Java Programming Language	
4	C Programming Language	
5	C++ Programming Language	
6	Pascal Programming Language	
7	Visual Basic Programming Language	
8	Assembly Programming Language	
9	La TeX	
10	PVM (Parallel Virtual Machine)	
11	Microsoft Office	
12	Visual Stodio / 3D Max	
13	SPSS	
14	ASP.Net	
15	Sun Microsystems Jini System	
16	CVS (Concurrent Version Control)	

Last Update

...28/11/2016