

Personal Data Resume

PERSONAL DATA:

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Ain Shams University,
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PROFESSIONAL EDUCATION:

2006 –to date

Head of Information System department. Faculty of Computers and Information Science, Ain Shams University. Associate Professor Information System department. Faculty of Computers and Information Science, Ain Shams University

Dec 2003-June2005

Postdoctoral research fellow, department of Computing Science, Glasgow University, U.K. The research project named “AMUSE” in autonomic computing for developing a self-management service that able to control the distributed application/environment in particular for the e-science environment and e-health environment.

November 2000→November 2003:

Ph.D. degree in computer science of Liverpool John Moores University, England, U.K.

- My Phd research topic is: ” *An Autonomic middleware control service to support self-adaptive software*”
- The main objective of my study is to develop baseline architecture and model for a middleware-based control service, which facilitate adjustable self-governance utility to support the safe self-adaptation of distributed applications for lifetime management. In addition, the development of a software meta-control model and its knowledge-base system, which represents how distributed applications services interact with their associated middleware service management and control services
- My research includes a programming model to facilitate the development of adjustable-autonomic control middleware services that would facilitate customisation of self-adaptation control strategies and self-governance policies including norms and authorities. Also, a control knowledge markup language and associated interpreter has been developed to achieve a level of software “*separation of concerns*” and the externalisation of control models and knowledge from the core controller logic.
- During my research an experiment/benchmarks demonstration have been carried out to practically monitor, and validate systems runtime behaviour with respect to critical system properties,

requirements and intended goals using. Artificial intelligent, Java software, Jini middleware, and XML language for supporting the generic capabilities in such demonstration.

1999:

Postgraduate degree in Software Technology Retraining Programme, University of Liverpool, U.K.

1997:

Software Skill Development Program (SSDP), Information Technology Institute (ITI) with collaboration with Nottingham University, Egypt, <http://www.iti.gov.eg/>.

1996:

Bsc in Pure Mathematics and Computer Science, El-Menoufia University, June 1996 with Accumulative Grade “Very Good with Honour Degree” [83%]. GPA [3.8]

WORK EXPERIENCE:

Nov 2011-- to date

Head of Information System department, Faculty of Computers and Information Science, Ain Shams University, Egypt.

Dec 2003-June2005

I worked as postdoctoral research assistant to lead a project for software engineering management system using the knowledge base system, as well as an assistant supervisor for some PhD students. Glasgow University, UK

1999-2000:

1. Software developer on work experience schema at Connect department, University of Liverpool, UK <http://www.connect.org.uk/>.
2. Lecturer of business courses at Connect, University of Liverpool , U.K for teaching the following courses:
 - Using the World Wide Web
 - Electronic Mail
 - Managing your Connect-Hosted Website
 - Creating Web Pages for Internet Beginners
 - Basic HTML
 - Intermediate HTML
 - Further Web Editor

2000-2003:

Part-time lecturer at the School of Computing and Mathematical Sciences, Liverpool John Moores University. U.K in teaching.

- Introduction to Computer Programming (using JavaScript Language).
- Internet Programming Using Java.
- C Programming.
- Computer Programming and problem Solving

2002→2003:

As part time lecturer at the Centre for Lifelong Learning (Continuing Education) since September 2002. <http://www.liv.ac.uk/conted/>

Involved in teaching the following courses:

- Introduction to HTML and XML.
- Introduction to Oracle SQL.
- Introduction to Programming in JAVA.

This involves developing the syllabus taught for the students, and to accomplish an easy handout to follow for assisting them during the course. I’m responsible as well of preparing exams and ensuring a correct

assessment process for the students. The job involves keeping in touch with the Academic Organizer, and the Course Processor.

RESEARCH INTERESTS:

My research area involves distributed system management, software engineering, and software testing. My particular interests are conducting work in the areas of autonomic computing, as well as cloud computing, Mobile computing. And database systems

PUBLICATIONS:

1. Badr N.; Reilly D.; Taleb-Bendiab A., "A Conflict Resolution Control Architecture for Self-Adaptive". Proceedings of International Workshop on Architecting Dependable Systems WADS 2002 (ICSE 2002), Orlando, Florida, May 2002.
2. Reilly D., Badr N., Taleb-Bendiab A. and Laws A., "An Instrumentation and Control-based Approach for Distributed Application Management and Adaptation", in Proceedings of ACM SIGSOFT Workshop on Self-Healing Systems (WOSS'02), Charleston, USA, November 2002.
3. Grishikashvili E, Reilly D., Badr N, Allen M., Yu M., Taleb-Bendiab A., "Autonomic computing: A Service-Oriented Framework to Support the Development and Management of Distributed Applications" in Processing of 3rd Annual Postgraduate Symposium on The Convergence of Telecommunications, Networking & Broadcasting (PGNet2002), Liverpool, U.K., June, 2002.
4. Grishikashvili, E, Badr, N , Reilly D., Taleb-Bendiab A., "Service-Oriented Approach for Distributed Application Assembly and Management" in Processing of 4th Annual Postgraduate Symposium on The Convergence of Telecommunications, Networking & Broadcasting (PGNet2003), Liverpool, U.K., June, 2003.
5. Grishikashvili E, Reilly D., Badr N., Taleb-Bendiab A. "From Component-Based to Service-Based Distributed Applications Assembly and Management" in Proceedings 29th EUROMICRO CONFERENCE, Antalya, Turkey, September 2003.
6. Allen M., Grishikashvili E., Badr N., Taleb-Bendiab A., "Adaptation Engine: an Agent-Based Framework for ad-hoc Service Life-Cycle Management for Meta-Computing" in Processing of AISP symposium on (IA and Grid Computing) imperial college London 2002.
7. N.Badr, "An Investigation into Autonomic Middleware Control Service to Support Distributed Self-Adaptive Software", in School of Computing and Mathematical Sciences. 2003, Liverpool John Moores University: Liverpool.
8. N.Badr, A.Taleb-Bendaib, D.Reilly, " Policy-based Autonomic Control Service" Proceedings of the Fifth IEEE International Workshop on Policies for Distributed Systems and Networks (POLICY'04) , IBM Thomas J Watson Research Centre Yorktown Heights, New York,USA.
9. N. Badr, A. Taleb-Bendiab, M. Randles, D. Reilly," A Deliberative Model for Self-Adaptation Middleware Using Architectural Dependency", Proceedings of the 15th International Workshop on Database and Expert Systems Applications (DEXA'04), Zaragoza, Spain, August 30th - September 3rd 2004.
10. Joseph Sventek, Nagwa Badr, Naranker Dulay, Steven Heeps, Emil Lupu, Morris Sloman "Self-Managed Cells and their Federation ", First International Workshop on Adaptive and Self-Managing Enterprise Applications ASMEA'05, 14 June 2005, Porto, Portugal..
11. N. Badr, A. Bennet, N. Dulay, S. Heeps, E. Lupu, M. Sloman, J. Sventek, "Autonomic Management of Ubiquitous e-Health Systems",Fourth All Hands Meeting, 19 - 22nd September 2005 Nottingham
12. Naranker Dulay , Emil Lupu , Morris Sloman , Joe Sventek , Nagwa Badr and Stephen Heeps "Self-managed Cells for Ubiquitous Systems" Third International Workshop

- on Mathematical Methods, Models, and Architectures for Computer Network Security MMM-ACNS 2005, St. Petersburg, Russia, September 24-28, 2005.
13. Strowes, S. and Badr, N. and Heeps, S. and Lupu, E. and Sloman, M. (2006) An event service supporting autonomic management of ubiquitous systems for e-health. In: 26th IEEE International Conference on Distributed Computing Systems Workshops, 2006. ICDCS Workshops 2006., 4-7 July 2006, Lisboa.
 14. Nagwa Lotfy Badr, Esraa Abd Elraouf, Mohamed abdeen and Mohamed Fahmy Tolba "An Efficient Ranking Module for an Arabic Search Engine" in proceedings of the Seventh Conference on Language Engineering, Cairo Oct 2007.
 15. Richard T. Watson ,Nagwa Badr,and Donald J. McCubbrey "The Global Text Project: The Arabic Imperative" in proceeding of The Fourth Annual Conference of Learning International Networks(LINC 2007) Consortium,Technology-Enabled Education: A Catalyst for Positive,Jordan, Oct 2007.
 16. Khaled El-Bahansy, Nagwa Lotfy Badr, Senan A. Ghallab, Abdel Badeeh M.Salem, "Machine-to-Machine Interaction To Knowledge Base Sharing", proceedings of Fourth International Conference on Intelligent Computing and Information Systems (ICICIS), PP: 491-495 Egypt, March 2009.
 17. Nagwa Badr "Failure Detection and Recovery in Dependable Systems" proceedings of Fourth International Conference on Intelligent Computing and Information Systems (ICICIS), PP: 450-461 Egypt, March 2009.
 18. Abdel-Badeeh M. Salem , Khaled A. El Bahnasy, Nagwa Lotfy Badr, Senan A.Ghallab, "Composition Semantic Web Service To Knowledge Base Sharing" , journal of Egyptian Computer Science (ECS),Vol 32, No:2 May ,Cairo-Egypt, 2009.
 19. Esraa Abd Elraouf, Nagwa Lotfy Badr, and Mohamed Fahmy Tolba, "An Efficient Ranking Module for an Arabic Search Engine" IJCSNS International Journal of Computer Science and Network Security, VOL.10 No.2, February 2010.
 20. Mohamed Fahmy Tolba , Nagwa Lotfy Badr, Esraa Abd Elraouf, and" A Paralization Based Technique For a High Performance Arabic Ranking" International Journal of Intelligent Computing and Information system-Jan2011(accepted).
 21. Nagwa Badr "Dynamic Architecture for e-Health System" International Journal of Intelligent Computing and Information Sciences- IJICIS, Vol 10,No 1,January2010.
 22. Shima Mostafa, Nagwa Badr, Omer Kareem, tarek Gharib "Corpus-Based WordNet Enrichment Using Coarse-Grained Word Senses" , Journal of Egyptian Computer Science (ECS),Vol 34, No:2 January ,2010.
 23. Nagwa Badr "An Agent-Based Architecture for Intelligent Decision Support System" 10th International Conference on Intelligent Systems Design and Applications, ISDA'10 November 29 – December 1, 2010, Cairo, Egypt.
 24. Raghda Fouad, Nagwa Badr, Hanaa Talha and Mohamed Hashem "On Location-Centric Semantic Information Retrieval in Ubiquitous Computing Environments" International Journal of Electrical & Computer Sciences IJECS-IJENS Vol: 10 No: 06
 25. Naglaa Mohammad Nagwa Badr, Tarek Gharib, and Mohamed Hashem "Personalized Ranking of Search Results Based on Semantics Similarity Between Queries" International Journal of Intelligent Computing and Information Sciences, IJICIS, Vol.11, No. 1, January 2011.
 26. Pakinam Boghdady, Nagwa. Badr, Mohamed Hashim, Mohamed Tolba "An enhanced test case generation technique based on activity diagrams" ICCES'2011: 2011 International Conference on Computer Engineering and Systems 2011, Article number6141058, Pages 289-294. IEEE ,Cairo, Egypt.
 27. P. N. Boghdady, N. L. Badr, M. A. Hashem and M. F. Tolba "An Enhanced Technique for Generating Hybrid Coverage Test Cases Using Activity Diagrams" 8th INFOS2012 International Conference on Informatics and Systems (INFOS 2012),IEEE,14-16 May2012, Cairo , Egypt
 28. Boghdady, P. N.; Badr, N. L.; Hashem, M. A.; Tolba, M. F. "Automatic generation of multi-testing types test cases using requirements-based testing" on Proceedings - ICCES 2012

- International Conference on Computer Engineering and Systems 2012, Article number 6408523, Pages 249-254, IEEE, Cairo, Egypt.
29. Eman A. Maghawry, Rasha M. Ismail, Nagwa L. Badr, Mohamed F. Tolba “An Enhanced Resource Allocation Approach for Optimizing Sub Query on Cloud” first International Conference on Advanced Machine Learning Technologies and Applications (AMLT12), Dec. 8-10, 2012, Springer, Cairo, Egypt
 30. M. E. Megahed a, N. L. Badr b, R. M. Ismail b, M. F. Tolba b “An Enhanced Cloud-based View Materialization Approach for Peer-to-Peer Architecture” first International Conference on Advanced Machine Learning Technologies and Applications (AMLT12), Dec. 8-10, 2012, Springer, Cairo, Egypt.
 31. P. N. Boghdady, N. L. Badr, M. A. Hashim, M. F. Tolba “Test Cases Automatic Generator (TCAG): A Prototype “first International Conference on Advanced Machine Learning Technologies and Applications (AMLT12), Dec. 8-10, 2012, Springer, Cairo, Egypt.
 32. Senan A. Ghallab, Nagwa Badr, Abdel -Badeeh Salem, Mohamed Fahmy Tolba "Integration Web-Based Crude Oil Ontology" first International Conference for Faculty of Computers & Information (ICCI'12). 11-12 Dec. 2012, Cairo, Egypt.
 33. Gharib, T.F., Badr, N.L., Haridy, S., Abraham, A. “Enriching Ontology Concepts Based on Texts from WWW and Corpus, Journal of Universal Computer Science Volume 18, Issue 16, 2012, Pages 2234-2251: appeared: 28/8/12 © J.UCS.
 34. H. Khaled, R. El Gohary, N.L. Badr and H. M. Faheem.” Accelerating Pairwise DNA Sequence Alignment using the CUDA Compatible GPU“. International Journal of Computer Applications (0975 – 8887) Volume 84 – No 1, December 2013.
 35. H. Khaled, R. El Gohary, N.L. Badr and H. M. Faheem “Hybrid Framework for pairwise DNA Sequence Alignment Using the CUDA compatible GPU” The 14th International Conference on Bioinformatics and Computational Biology (BIOCOMP’13), 2013.
 36. Afify, Y.M., Moawad, I.F., Badr, N.L., Tolba, M.F.” A semantic-based Software-as-a-Service (SaaS) discovery and selection system. Proceedings - 2013 8th International Conference on Computer Engineering and Systems, ICCES 2013.
 37. Mahmoud Darwish, Rania Elgohary, Nagwa Badr, Hossam Faheem”An Efficient Incremental Maintenance for Association Rule Mining based on Distributed Databases“ 3rd International Conference on Computer Science and Network Technology (ICCSNT 2013) Dalian, China.
 38. Senan A. Ghallab, Nagwa L. Badr, Abdel Badeeh Salem, M. F. Tolba “Intelligence Test Case Based-Approach for Crude Oil Prediction System” 7th International Conference on Intelligent Systems IS’14. September 24-26, 2014, Warsaw, Poland.
 39. Alshaimaa Abo-alian, N. L. Badr, M. F. Tolba, “Auditing-as-a-Service for Cloud Storage” 7th International Conference on Intelligent Systems IS’14. September 24-26, 2014, Warsaw, Poland.
 40. Yasmine M. Afify, Ibrahim F. Moawad, Nagwa Badr, M. F. Tolba: Cloud Services Discovery and Selection: Survey and New Semantic-Based System. In: A. E. Hassanien et al. (eds.), Bio-inspiring Cyber Security and Cloud Services: Trends and Innovations, Intelligent Systems Reference Library 70, DOI: 10.1007/978-3-662-43616-5_17, ©Springer-Verlag Berlin Heidelberg (2014).

Research Activities

- **Reviewer :**
 1. Information Technology Industry Development Agency (ITIDA), <http://www.itida.gov.eg> .
 2. International Journal of Software Engineering(IJSE) <http://www.ijse.org.eg>
 3. Al Shrouk Academy Journal.

4. International Journal of Intelligent Computing and Information Science
5. Chair of technical committee of ICICIS (International Conference of Intelligent Computing and Information System). <http://net2.shams.edu.eg/icicis>
6. Egyptian Informatics Journal <http://www.journals.elsevier.com/egyptian-informatics-journal/>.
7. IET Software <http://www.theiet.org>

- **Editors & Author:**

1. *Editor of ACEEE International Journal on Control System and Instrumentation* <http://ijcsi.theaceee.org>.
2. Author of Web Engineering#1 course at EELU, <http://www.eelu.edu.eg>.

Projects

- PI of ITAC-ARP funded project named “Arabic Sign Language Translator” 2012-2014. <http://www.arslt.com>
- Co-PI of ITAC-ARP funded project named “A State-of-the-art Fully Distributed Arabic Search Engine” 2009-2011.

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- **Other Activities:**

- Committee Chair of updating the postgraduate courses of information System department.
- Committee Chair of developing the Bioinformatics Diplomas (Basic and Advanced) of information System department. <http://diplomas.cis.asu.edu.eg/>.
- Committee Chair of developing the Business Analytic Diplomas (Basic and Advanced) of information System department. <http://diplomas.cis.asu.edu.eg/>

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- **Language:**

- English (spoken and written)
- Arabic (mother language)