

CURRICULUM VITAE

Ali Asad Al Dahoud

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1. Personal Data

Date of Birth: 11 /11 / 1961

Nationality: Jordanian

2. Adminstrations

- CIS Department Chair 200- 2003
- Dean of Science and Information Technology 2012-2016
- Dean of Students Affairs 2019-2021
- Director of Foreign Relation Office 2017- Now

3. Education

- Ph.D. IN ENGINEERING SCIENCES, National Technical University of Ukraine 1996. B. Sc ENGINEER OF ORGANIZATION (COMPUTER), BELGRADE, YUGOSLAVIA, 1986. Tawjihi 79/80 Ramtha.

4. Ph.D. Dissertation

Thesis Title: **Dynamic Load Balancing in a Distributed System.**



5. Employment

5.1. Civil Defense, computer department 1987- 1988

5.2. Mutah University 1989-1991

5.3. Al Zaytoonah University, 1996- now

6. Research Interests

1. Performance Evaluation,
2. Load Balancing,
3. Algorithms,
4. Solar Energy
5. Smart Grid

7. Teaching Experience

7.1. Undergraduate Courses

- 7.1.1. Programming Concepts
- 7.1.2. Introduction into Computer Science
- 7.1.3. Digital Logic Design
- 7.1.4. Computer organization
- 7.1.5. Computer Algorithms
- 7.1.6. Operating Systems
- 7.1.7. Special Topics in Computer Networks
- 7.1.8. Special Topics in Computer Science
- 7.1.9. Special Programming Languages

7.2. Graduate Courses

- 7.2.1. Advanced Operating Systems
- 7.2.2. Special topics in Computer Science

8. Membership of Committees

- 8.1.1. IEEE
- 8.1.2. ACM

9. Skills

- 9.1. Have experience in Quality Assurance at Universities.



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- 9.2. Excellent in managing and forming research teams based on the hottest research areas
- 9.3. Excellent in working under pressure
- 9.4. Excellent in teaching skills
- 9.5. Very interesting in team work
- 9.6. Very good in social relations
- 9.7. Speak, Read, and Write perfectly English, Arabic, Italian Serbian Language

10. Publications

1) A Token Passing Algorithm for Dynamic Load Balancing in Distributed Systems, N. 912-uk 96 GNYB, Ukraine 8.4.1996.

“Алгоритмы эстафетной передачи для динамического выравнивания нагрузки распределенной системы // Деп. в ГНТБ Украины 08.04.96. № 912-Ук 96.

2) Ramtha: A manager algorithm for Dynamic Load balancing for Distributed Systems).
Ramtha: Управляющий алгоритм динамического выравнивания нагрузки распределенной системы // Деп. в ГНТБ Украины 08.04.96. № 911-Ук 96.

3) A New Load Balancer for Heterogeneous Distributed Systems,
مجلة كلية المأمون الجامعة، العدد الثاني 2000، بغداد، جمهورية العراق

4) A Simulation Tool for Testing ATM Resource allocation Strategies, Journal of Institute of Mathematics & Computer Sciences, Kolkata, India, 12/2002.

5) A Scalable Load Balancing Strategy with an ATM Network Backbone, Tishreen University Journal for Studies and Scientific Research, Lattakia, Syria, 1/2003.

6) Simulation of the Distributed Database Performance in Real-Time Environment with Load Sharing, Damascus University, Journal for Engineering Sciences, Syria, “P220“.

7) New Strategies for Scheduling Tasks in Field Bus Systems", WSEAS Transactions on Communications Issue 12, Volume 4, December 2005.

8) An Advanced Approach for improving the Performance of CSMA/CD LANS, WSEAS Transactions on Communications, Issue 1, Volume 5, January 2006.

9) A Hybrid Heuristic Algorithm for Solving the P-Median Problem, Journal of Computer Science (Special Issue): 80-83, 2005, ISSN 1549-3636.

10) A New Model for Multi-agent Case-base Reasoning Systems, Journal of Computer Science (Special Issue): 96-98, 2005, ISSN 1549-3636.

11) Partitions Redistribution in Distributed Databases Based on Creative Evolutionary System Approach, WSEAS Transactions on Computers, Issue 5, Volume 5, ISSN 1109-2750, May 2006.



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12. The MIT Beer Game As Multiagent Simulation: A Practical Approach Using AOR-Modeling And A XML-Based Implementation Framework, IJTST Journal, 2009
Al-Dahoud Ali, Michal Wosko.
13. New approach to e-lecturing, IJTST journal, 2009
Wojciech Zamojski, Tomasz Walkowiak, Robert Adamiec, Al-Dahoud Ali.
14. Fast Algorithms for Outlier Detection, JCS, Volume 4, number 2, pg:129-132, 2008:
FAWAZ A. M. MASOUD, MOH'D BELAL AL- ZOUBI, IMAD SALAH, Al-Dahoud Ali
15. A MODIFIED TECHNIQUE FOR LOW RMSE MULTIFOCUS IMAGE FUSION, UBICC; special Issue in Bioinformatics and Image Processing, July, 2009.
Dheeraj Agrawal, Dr Ali Al-Dahoud, Dr.J.Singhai
16. Modelling Access Control with Dynamic Role Binding, Book Chapter: Pages: 61-74, Computational Intelligence & Modern Heuristics, ISBN 978-953-7619-28-2, 2009
Al-Dahoud Ali and Dr.K.Chitra
17. Dependable e-learning systems, 2009, Book Chapter: "E-learning", ISBN 978-953-7619-23-7, intechweb.org
18. Load Balancing of Distributed Systems based on Multiple Ant Colonies Optimization, AJAS, American Journal of Applied Sciences, Al-Dahoud Ali, Mohamed A. Belal and Moh'd Belal Al- Zoubi
19. Modified Curvelet Thresholding Algorithm for Image Denoising, Journal of Computer Science JCS:
Al-Dahoud Ali, Preety D. Swami and J. Singhai
20. Application of Genetic Algorithm in Solving Linear Equation Systems, MASAUM Journal of Basic and Applied Science, p: 179-185 Vol.1, No.2 September 2009.
Al Dahoud Ali , Ibrahiem M. M. El Emary, and Mona M. Abd El-Kareem
21. Solving Min-Max Problems Using Genetic Algorithm, UNIVERSITY OF PITESTI – ELECTRONICS AND COMPUTERS SCIENCE, SCIENTIFIC BULLETIN, No. 9, Vol.2, 2009
Ibrahiem M. M. EL EMARY, Al Dahoud ALI, Mona M. Abd EL-KAREEM
22. Design of Randomization algorithms for the Sparse Travelling Salesman, UbiCC Journal - Volume 4 Number 5, publishing Date:
12/26/2009, ISSN Online 1992-8424, ISSN Print 1994-4608
Dr. Fred Mtenzi, Dr. Ali Al-Dahoud



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23. "New Outlier Detection Method Based on Fuzzy Clustering "WSEAS Transaction on Information, 2010
Moh'd Belal Al-Zoubi, Ali Al-Dahoud, Abdelfatah A. Yahya
24. Implementation of a Tele-operating High Level Communication System to Control a Colony of Robots, WSEAS Transaction on Computers..
2010, Al-Dahoud Ali, Mohamed Fezari, Attoui Hamza
25. Personalising the Dynamic Information Resources in a Self Organized Web System Using Cas And Mas, ComSIS, 2010,
RATTROUT Amjad, ASSAF Rasha, AL-DAHOUD Ali
<http://www.comsis.org/Articles.htm>
- 26) An Adaptive Source, Server-initiative Algorithm for Dynamic Load Balancing in Distributed System, #240-067,IASTD, International Conference on Networks, Orlando, Florida, USA, 8-10, January 96.
- 27) Dynamic Load Balancing with Token-Passing in a Distributed Systems, 1998 IEEE, International Conference on Systems, Man, and Cybernetics, USA, CAL, 11-14/10/98.
- 28) "الخوارزمية المدير" لعملية توزيع العبء الديناميكية على أجهزة الحاسوب الموزعة، الأسبوع التاسع (والثلاثين للباحثين والعلماء، دمشق، سوريا، 6-11/11/1999.
- 29) A Robust Load Balancer for Heterogeneous Distributed Systems Type-a, #T149, 2000 Symposium on Performance Evaluation of Computer and Telecommunication Systems, SPECTS'2K, July 16-20,2000, Vancouver, British Colombia, Canada.
- "استراتيجية تسيير ديناميكية في أنظمة الاتصالات غير المتزامنة"، اسبوع العلم الأربعين، المجلس الأعلى للعلوم، اللاذقية، سوريا، 4-9 /11/ 2000.
- 30) A Dynamic Cluster Constructor for Load Balancing in Big Heterogeneous Distributed Systems, #115, 2001 Symposium on Performance Evaluation of Computer and Telecommunication Systems, July 15-19,2001, Orlando, Florida, USA.
- 31) On the Connectivity Conditions in a Parallel Heterogeneous Systems, # 02-08-13, 2001 International Arab Conference on Information Technology (ACIT 2001), Jordan University of Science and Technology, Jordan, November 13-15, 2001.
- 32) A Scalable Load Balancing Strategy with an ATM network Backbone, First International Conference on Intelligent Computing and information Systems, Cairo, Egypt, June 24-26, 2002.
- 33) A Dynamic Rotating Load Balancing Strategy in Distributed Systems, International Conference on Soft Computing MENDEL 2003, Brno, Czech Republic, June 4-6, 2003.



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34) Integrating Disjoint and Coherent Components with AOSD Based Framework, ICITNS 2003, Al-Zaytoonah University, 19-21/Octobar 2003, Jordan.

35) Dynamic Rotating Load Balancing Algorithm in Distributed Systems, ICITNS 2003, Al-Zaytoonah University, 19-21/Octobar 2003, Jordan.

36) Integrating Disjoint and Coherent Components with AOSD based Framework, ICITNS 2003, AL-Zaytoonah University, Jordan.

37) Dynamic Near Shortest Path (Dnsp) Routing Algorithm, Asmta'04 11th International Conference on Analytical and Stochastic Modeling Techniques and Applications, June 13th-16th, 2004, Magdeburg, Germany.

38) Data Redistributing in Distributed Computing Systems, ICENCO 2004, IEEE Egypt Section, 27-30/12/2004, Cairo, EGYPT.

39) A New Policy for Improving the Performance of the Slotted Persistent CSMA/CD Protocol, 5th WSEAS / IASME International Conference on Systems Theory and Scientific Computation, Malta, 15-17/9/2005.

40) New Strategies for Scheduling Tasks in Field Bus Systems, 9th WSEAS International Conference on COMMUNICATIONS, Athens, Greece, July 14-16, 2005.

41) A New Policy for Enhancing the Performance of LANs that Uses CSMA/CD Protocol, 5th WSEAS / IASME International Conference on SYSTEMS THEORY and SCIENTIFIC COMPUTATION, Malta, 17-19/9/2005.

42) Multiple Ant Colonies Optimization for Load Balancing in Distributed Systems, ICTA'7, April 12-14, 2007, Hammamet, Tunisia

43) A practical approach using AOR-modeling and a XML-based implementation framework, ICTTA08, Syria, April 7 - 11, 2008.

44) Traffic Flows Classification through Packet Detection for Security, 3rd International Conference for Internet Technology and Secured Transaction, June 23-28, 2008, Duplin, Ireland (www.icitst.org).

45) Dependability Aspect of e-Learning Systems, DepCos – RELCOMEX'08, Szklarska Poreba, Poland, 26-28.06.2008.
Al-Dahoud Ali, Tomasz Walkowiak, Marek Woda

46) Loss Packet and Error Concealment of VoIP over DSL Networks, International Conference on ICT and Accessibility (ICTA 09), 7-9 May 2009, Hammamet, Tunisia.
Al-Dahoud Ali, Ibrahim M. M. El Emary and Ala'a Al Zo'bi.



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- 47) Applying Semantic Web & User Behavior Analysis to Enforce the Intrusion Detection System. ICITST-2009, UK:
["http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5402616"](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5402616)
 Yi-Tung F. Chan¹, Charles A. Shoniregun², Galyna A. Akmayeva, Ali Al-Dahouds
- 48) "Fuzzy Clustering-Based Approach for Outlier Detection",
 ACE'10, the 9th WSEAS International Conference on APPLICATIONS OF COMPUTER ENGINEERING, Penang. Malaysia, March 23-25, 2010
 Moh'd Belal Al-Zoubi, Al-Dahoud Ali, Abdelfatah A. Yahya
- 49) "Implementation of a Tele-operating High Level Communication System to Control a Colony of Robots" ACE'10, the 9th WSEAS International Conference on APPLICATIONS OF COMPUTER ENGINEERING, Penang. Malaysia, March 23-25, 2010
 Al-Dahoud Ali, Mohamed Fezari, Attoui Hamza
- 50) "A Transformation Approach of Mobile Activity Diagram Towards Nested Petri Net", ICIT11, Amman, Jordan, May 11-13, 2011.
 Guerrouf Faycal, Allaoua Chaoui, Al-Dahoud Ali
- 51) "The Prospects and Barriers of E-Commerce Implementation in Tanzania", ICIT11, Amman, Jordan, May 11-13, 2011.
 George S. Oreku, Fredrick J. Mtenzi, Al-Dahoud Ali
- 52) "Embedded Multiprocessors Vocal Command system, a way to Improve the Tele-Control of a didactic Manipulator Arm", ICIT11, Amman, Jordan, May 11-13, 2011.
 Mohamed Fezari, Hamza Atoui , Ali Al-Dahoud.
- 53) "The Jordanian eGovernment Initiatives within the Context of the Socio-technical Model ", ICIT11, Amman, Jordan, May 11-13, 2011.
 Al-Dahuod Ali, Rashid Jayousi, Luis Javier García Villalba and Cláudia Jacy Barenco Abbas.
- 54) "Smart Server Model for Weakly Connected Environments", DepCoS - RELCOMEX 2011, Poland, June 26- July 1, 2011.
 Ali Al-Dahoud, K. Chitra
- 55) An Overview of the Approaches for A PLM Application's Customization, XV International Scientific Conference on Industrial Systems (IS'11(Novi Sad, Serbia, September 14. – 16. 2011.
- 56) Investigating Issues in Wireless Technologies in Emerging Economies Focussing on Middle Eastern Countries, IEEE CCSIE 2011, <http://ccsie.org/>
 Ali Alao Babatunde, Ali Al-Dahoud, Maaruf Ali, Oxford Brookes University



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- 57) Video Fingerprinting Using AED of CGO Based Signatures, 2012 IEEE International Conference on Computer Science and Automation Engineering (CSAE 2012). Zhangjiajie, China; May 25-27, 2012.
Ali Al-Dahoud, Rakesh Singhai, Pramendra Kumar, and Jyoti Singhai
- 58- An Approach to the Specification of User Interface Templates for Business Applications, 5th Balkan Conference in Informatics (BCI) 2012, Sep 16, 2012, 09:00 AM TO Sep 20, 2012.
- 59- Developing Software Agents using Enterprise JavaBeans, 5th Balkan Conference in Informatics (BCI) 2012, Sep 16, 2012, 09:00 AM TO Sep 20, 2012.
- 60- Voice command system based on pipelining classifiers GMM-HMM,, IEEE Conference Publications, International Conference on Information Technology and e-Services (ICITeS), 2012, Fezari, M.; Boumaza, M.S.; Aldahoud, A
- 61- UML Activity Diagrams and Maude Integrated Modeling and Analysis Approach using Graph Transformation, . ICIT 15, May 2015, Amman. Jordan
Elhillali Kerkouche, Khaled Khalfaoui, Allaoua Chaoui, Ali Aldahoud
- 62- Bridging the gap between Modeling of Mobile Agent-based Systems and Semantic Web using Meta-modeling and Graph Grammars. ICIT 15, May 2015, Amman. Jordan
Aissam Belghiat, Allaoua Chaoui, Ali Aldahoud
- 63- WSN for AIR quality Monitoring in Annaba City, ICIT 15, May 2015, Amman. Jordan
Mohamed FEZARI, Ali Al-DAHOUD and Mohamed Seghir BOUMAZA
- 64- Improving Monitoring and Fault Detection of Solar Panels Using Arduino Mega in WSN, London United Kingdom Mar 14-15, 2015, 13 (3) Part VII
Ali Al-Dahoud, Mohamed Fezari, Thamer A. Al-Rawashdeh, Ismail Jannoud
- 65- Multiclass SVM/HMM Vowels Recognition System towards Improving Human Computer Interaction, DEPCOS, June 2016
Ali Al-Dahoud, mohamed Fezari, wassila Abadi, Thamer Al-Rawashdeh
- 66- Enhanced Feature-Based Automatic Text Summarization System Using Supervised Technique, INTERNATIONAL JOURNAL OF COMPUTERS & TECHNOLOGY, Vol 15, No 5, 2016
Madhi Ahmed Ali, Ali A. Al-Dahoud, Bilal H. Hawashin.
- 67- An Improved Solar Low Energy Adaptive Clustering Hierarchy (IS-LEACH) Technique, International Journal of Communication Networks and Information Security



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(IJCNIS) Vol. 8, No. 3, December 2016, Khalid M. Al-Smoul, Thamer A. Al-Rawashdeh, Ali A. Al-Dahoud.

68- Extracting Named Entities Using Named Entity Recognizer for Arabic News Articles, INTERNATIONAL JOURNAL OF ADVANCED STUDIES IN COMPUTER SCIENCE AND ENGINEERING IJASCSE VOLUME 5 ISSUE 11, 2016, Tarek Kanan, Raed Kanaan, Omar Al-Dabbas, Ghassan Kanaan, Ali Al-Dahoud.

69- Multiprocessing scalable string matching algorithm for network intrusion detection system, Jan 2018, International Journal of High Performance Systems Architecture, Duaa Nazzal, Adnan Hnaif, Issa S. Al'otoum, Ali Al Dahoud ,

70- Water Quality Monitoring System Using WSN in Tanga Lake, Advances in Intelligent Systems and Computing book series, Advances in Intelligent Systems and Computing book series (AISC, volume 987) , Ali Al-Dahoud, Mohamed Fezari, Hanene Mehamdia, 2019

71- Study on New Arduino NANO Board for WSN and IoT Applications, International Journal of Advanced Science and Technology, Vol. 29, No. 4, (2020), pp.10223 – 10230, Hani Al-Mimi, Ali Al-Dahoud, Mohamed FEZARI, Mohammad Sh. Daoud,

72- Improving Monitoring Greenhouse System using Smart wireless Sensors Actuators Network, ICIT2021, July, 2021, Amman, Jordan, Ali Al-Dahoud, Mohamed FEZARI.

73- User Interface Development Tools and Software for Arduino "A Comparative Study, sicb2021, Ali Al-Dahoud, Mohamed Fezari, Ahmad Al Dahoud October, 2021, Amman, Jordan.

74- Automatic solar panel cleaning system Design, TELFOR 2021, Ali Al Dahoud, Mohamed Fezari, and Ahmad Al Dahoud, November, 2021, Beograd, Serbia

Books:

1- "Computer skills and Packages 2003",

"المهارات الحاسوبية الأساسية والبرمجيات الجاهزة، دار الشروق للنشر والتوزيع 2003"

2- Computational Intelligence & Modern Heuristics, IN-TECH, ISBN 978-953-7619-28-2, Hard cover, 348 pages, <http://intechweb.org/>, 2009, Austria.

Al-Dahoud Ali

3- Intelligent Communication System, ISBN 897-15-6-012759-0
www.ubicc.org, 2011, Canada.

Al-Dahoud Ali, Walid A. Salameh, Linda Smail.



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4- **ADVANCES IN INFORMATION TECHNOLOGY** “From Artificial Reality to Virtual Reality”, http://www.ubicc.org/news_detail.aspx?id=34
ISBN-13: 978-1466396531, Edited By Al-Dahoud, Ali, UBICC Publisher, Canada, 2011.

5- **Frontiers in Information Technology Part I**, 2012,

Proceedings:

-Editor of ICITNS proceedings 2003, ICIT proceedings 2005, 2007, 2009.

Other Activities:

Project Coordination:

- **Project Coordinator of the Tailor-made Training 2007**, sponsored by the Netherlands.
- **Project Coordinator of the "On-Line Learning & Learning in an Integrated Virtual Environment" 2008**, sponsored by the Netherlands.
- **Mediterranean coordinator for MODELING A SECURE E-GOVERNMENT SYSTEM IN JORDAN Project**, sponsored by Spanish Agency for International Development Cooperation.

Keynote Speaker: Fourth International Conference on Intelligent Computing and Information Systems: Recent Trends in Bioinformatics, http://icicis.edu.eg/view_title.aspx , 19-22, March, 2009, Ain Shams University Cairo, Egypt.