

# Iyad Khayat, Ph.D., Eng.

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**Assistant professor with +20 years of teaching, research and Curriculum development experience within the Faculty of Information Technology. former Principle ICT advisor for Damascus university president, and university administrator as a Former Vice Dean of faculty and as a Director of the IT department. Seasoned business executive.**

**Nationality:** Syria

## Education

- 2009 Ph.D. Computer Engineering and Science, University of Louisville (UoL), KY, USA.
- 2004 Master of Science, Computer Science Dept., Western Kentucky University, KY, USA.
- 1995 Diploma in Relational Database design OIC- Japan
- 1989 Higher Studies Degree in Computer Engineering, Damascus University.
- 1987 Bachelor of Engineering (Diplôme d'ingénieur) in Electrical Engineering, Damascus University.

## Academic Experience

**Undergraduate Courses:** Network Security, Information Security, Network Design, Network Management, Data Communications, Advanced Networks,

**Graduate Courses:** Broadband Network, Wireless Networks, Quality of Services, Cyber security.

**Research:** Wireless Sensor Networks, IOT, Network Security.

### Damascus University, Damascus, Syria

**Sep 2010- Today** Assistant professor, Faculty of Information Technology, Damascus University.

**Sep 2018- Aug 2021** Principle ICT advisor, University president, Damascus University.

**Sep 2018- Aug 2021** Vice Dean for administrative and students Affairs, Faculty of Information Technology, Damascus University,

**Sep 2016- Sep 2018** Head of Computer Systems and Networks Department, Faculty of Information Technology, Damascus University

**1987-1996** Lecturer – Electronics Engineering Department, Faculty of Mechanical Engineering (FMEE), Damascus University.

### Al Sham Private University -ASPU Damascus, Syria

**June 2022- Today** Dean, Faculty of Information Technology, ASPU.

**Sep 2018- Today** Assistant professor, Faculty of Information Technology, ASPU.

Arts, Sciences and Technology University in Lebanon (AUL) & American University of Culture and Education (AUCE), Beirut, Lebanon

**2012-2015** Visiting Professor, Division of Computer Science & Engineering, AUL

**2012-2015** Visiting Professor, Computer Science Program, AUCE

University of Louisville (UoL), KY, USA.

**2006-2009** Lecturer CECS Dep. Speed School of Engineering UoL.

Western Kentucky University, KY, USA.

**2003-2006** Network Specialist Team Lead, IT. Dep. Western Kentucky University,

### **Professional Experience**

Led the preparation and execution of business and operational plans, enterprise strategy, feasibility studies, public bid negotiations, site management. Business trend on network security aspects, Mobile Telecom and Networking Technologies, People and Financial Management,

iConsult, Damascus, Syria

**2010-Today** GM at iConsult, a Professional ICT consulting firm that helps organizations improve their performance, primarily by reengineering the workflow process and introducing the latest information technologies and communication solutions, to solve business problems and development of plans for improvement in areas of IP networking , Telecom and service assurance and testing, Smart & Sustainable Services as well as Business Consultancy, iConsult group has built considerable experience providing strategic advice to actors in the Telecommunications, information technology and renewable power industries .

UN- ESCWA, Beirut, Lebanon

**2013-2015** ICT Team leader & Principle Consultant: National Agenda for Future Syria (NAFS) Project at ESCWA,

UNDP Damascus, Syria

**2011- 2012** Senior Officer at UNDP, E-Government Project,

GIZ, Damascus, Syria

**2010- 2011** Principle Consultant at GIZ, Central bank of Syria Project

AT&T USA, AZ, USA

**2006- 2009** Project director of University of Arizona project with AT&T

- Headed Technology and network strategic engagements and digital transformation project between UOA and AT&T.
- Drove network evolution and strategy execution; preparing for WIMAX vs. LTE shift project.
- Orchestrated project with key partners including Cisco, Qualcomm, HPE, Intel and others to achieve complete end-to-end network architecture.

### Ministry of Higher Education, Damascus, Syria

**2000-2002** Director of Information Technology,

- National project team leader For Syrian Higher Education and Research Network linking the four state universities and the Ministry of Higher Education.
- Extended ERP system (accounting, human resources, scholarship affairs, administration) to the Ministry.

### Damascus University, Damascus, Syria

**1996-2002** Director of Information Systems Dept.,

- Founded the Information Systems department within Damascus university,
- Planned and executed the deployment of ERP system (accounting, human resources, student affairs, administration), the system automated personnel and student life records from 1950-2003.
- Introduced IT computing services such as web, email, and DNS and deployed 4000PCs.
- Led the project on Syrian Higher Education Research Network infrastructure for 5 campuses (fiber optic and cabling layout).
- Planned the installation and prepared technical design for the university's telephone exchange (10,000 lines) and introducing video conferencing capabilities.
- Instituted computer proficiency programs for 600 university employees.
- Established 600 seats student computer center.
- Established national project for computer literacy addressing university alumni (over 10,000 trainees) in collaboration with the Syrian Computer Society.
- Managed the bidding process for above projects including hardware, software and consultants.
- Obtained educational grants (Qatar, UNESCO) for more than \$1M.
- Managed and personally mentored career development plans for 200 employees.

### Professional Training Courses & Activities

2008 OPNET WORK conference, Washington DC, USA.

2008 Network Security by CA, Louisville, KY, USA.

2007 OPNET Advance Modeler Course, Washington DC, USA.

2007 Cisco Customized Course Training, KY, USA.

2007 WiMAX Designer boot camp, Chicago, USA.

2007 Autonomic Communication, University of Arizona, USA.

2006 Network management and security University of Arizona, USA.

2005 SIP and VOIP tutorials at SuperComm2005, Chicago, USA.

### Awards and Services

2008 CECS UoL School of Engineering Arthur M. Riehl Award for excellent academic performance and contributions to the department activities.

2008 Received 5<sup>th</sup> Place (out of 77 PhD/MS submissions) UoL Speed School of Engineering Exposition.

2002 Invited by the Office of the Prime Minister of Malaysia to sign Memorandum of Understanding promoting collaboration on the Multimedia Super Corridor and Electronic Custom System & Free Zones Administration Kuala Lumpur, Malaysia.

2002 Provided technical and bidding management assistance to Agha Khan educational development program

2000-2003 Board Member of Education Development Center for Medical Science W.H.O. Damascus, Syria.

- 2001 Invited by the US Department of State Bureau of Educational and Cultural Affairs to participate in the International Visitor Program
- 2001 Provided technical assistance for the advanced computer literacy project (Damascus) sponsored by the Organization of Islamic Countries (OIC) Committee for Scientific and Technical Cooperation
- 2001 Represented the Ministry of Higher Education in the Arab League meeting on Open Learning Strategy, Tunisia.
- 1995 Invited by the Japan International Cooperation Agency (JICA) to participate in technical development program by the Nippon Telegraph and Telephone Corp (NTT) Okinawa Japan.

### **Professional Societies**

IEEE, ACM, Syrian Computer Society, Syrian Engineers Syndicate.

### **Publications**

- [1] Iyad Alkhayat, Anup Kumar and Salim Hariri “End to End Mobility Solution for Vertical Handoff between Heterogeneous Wireless Networks” Accepted at the 7th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-2009), Morocco.
- [2] Iyad Alkhayat, Anup Kumar and Adel Elmaghraby, “Seamless Connectivity Scheme for Heterogeneous Wireless Networks” proceedings of IEEE Symposium on Signal Processing and Information Technology, IEEE ISSPIT 2008 Sarajevo. Bosnia.
- [3] Abraham George, Iyad Alkhayat and Anup Kumar, “Connection Selection Scheme for Multi-Hop Heterogeneous Wireless Networks” proceedings of IEEE International Workshop on Heterogeneous Multi-Hop Wireless and Mobile Networks 2006,(IEEE MHWMN’06), in conjunction with IEEE MASS, 2006 Vancouver, Canada.
- [4] Mohsen Kadi, Iyad Alkhayat, “The effect of location errors on location based routing protocols in wireless sensor networks” Egyptian Informatics Journal Volume 16, Issue 1, March 2015, Pages 113-119
- [5] Fatina Mohammad, Iyad Alkhayat, ”Outlier Detection Techniques for Wireless Sensor Networks ”Scientific Engineering Journal 2018.
- [6] Amjad Hijazi, Iyad Alkhayat, Network Protection Based on Smart Adaptation System Design and Implementation 2018
- [7] Issra Kasimmi, Iyad Alkhayat, Performance Analyze in Clustered Software Defined Network 2018 Damascus university scientific journal.
- [8] Iyad Alkhayat, author book chapter, Handbook of mobile Systems Applications and Services, CRC Press 2016 publisher Taylor & Francis Ltd. ISBN 10:1138199036, ISBN13:9781138199033
- [9] Analysis of Service Broker Algorithms in Cloud Computing article Collection of materials of the << international conference: Data Management - IEEE DSDT >>, St. Petersburg, June 15, 2018 4 Khodar Almosana, Iyad Alhayat, Desyatirikova E. N.
- [10] Khodar A. New Scheduling Approach for Virtual Machine Resources in Cloud Computing based on Genetic Algorithm / A. Khodar, H. Al-Afare, I. Alkhayat // IEEE International Russian Automation Conference (RusAutoCon). - 2019. - P.1-5. - DOI: <https://doi.org/10.1109/RUSAUTOCON.2019.8867638>.
- [11] Khodar A. Development of an approach to planning the resources of virtual machines in cloud computing using a genetic algorithm / A. Khodar, E.N. Desyatirikova, I. Alkhayat // Bulletin of RGUPS. - 2019. - No. 4. - P. 101–109.

- [12] Development of a model for improving the planning of tasks in cloud computing based on the optimization of a swarm of particles / A. Khodar, E.K. Algazinov, E.N. Desyatirikova, I. Alkhayat // Bulletin of the Voronezh State Technical University. - 2019. - T. 15. - No. 5. - P. 23–30.
- [13] Design Model to Improve Task Scheduling in Cloud Computing Based on Particle Swarm / A. Khodar, L.V. Chemenkaya, I. Alkhayat, H. Al-Afare, E.N. Desyatirikova // IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (EIConRus). –2020. –S.345-350. - DOI: <https://doi.org/10.1109/EIConRus49466.2020.9039501>.
- [14] Evaluation and Analysis of Service Broker Algorithms in Cloud-Analyst / A. Khodar, V.E. Mager, I. Alkhayat, F. Al-soudani, E.N. Desyatirikova // IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (EIConRus). –2020. -FROM. 351-355. - DOI: <https://doi.org/10.1109/EIConRus49466.2020.9039187>.
- [15] Performance Analysis of Available Service Broker Algorithms in Cloud Analyst / Arseniev D., Overmeyer L., Kälviäinen H., Katalinić B. (eds) Cyber-Physical Systems and Control. CPS & C 2019 / E.N. Desyatirikova, A. Khodar, A.V. Rechinskiy, L.V. Chernenkaya, I. Alkhayat // Lecture Notes in Networks and Systems, 2020. –vol 95. Springer, Cham, pp 449-457. DOI: [https://doi.org/10.1007/978-3-030-34983-7\\_44](https://doi.org/10.1007/978-3-030-34983-7_44)  
Publications in editions recommended by the Higher Attestation Commission of the Russian Federation
- [16]. Khodar A.A., Desyatirikova E.N., Alkhayat I.M. A program to optimize load balancing using a genetic algorithm. - Certificate of state registration of a computer program. M. : FIPS, 2019. No. 2019667473 dated 17.12.2019.
- [17] Ghandy Hessam, Ghassan Saba, Iyad Alkhayat A new approach for detecting violation of data plane integrity in Software Defined networks, Journal of Computer Security (ISSN 1875-89240) DOI:10.3233/JCS-200094- 20 April 2021