

Wissam Zidan Al-Khatib

PhD – Senior Lecturer at the Faculty of Artificial Intelligence

Engineering – Computer Networks Specialization

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Damascus, Syria

Executive Summary

A senior lecturer in the Department of Intelligent Information Security Systems Engineering, specializing in Broadband Data Networks, holds a Master's degree in Communication Systems Engineering from Bharathiar University in India and a Diploma in Computer Engineering and Automatic Control from Damascus University. He possesses exceptional teaching skills, having taught various courses in Information Engineering, Computer Networks, Communication Systems, and Electrical and Electronic Engineering for over twenty years in both English and Arabic at public and private universities and academic institutions, and has supervised research projects and theses.

Outstanding skills in all administrative and educational functions, organizational development, curriculum development, project management, administration, leadership, communication, and team building.

Chairman of the Board and Founder of the “SIRITA” Institute for Human Development (The Syrian Academic Institute for Robotics and Information Technology - (One of the most active non-governmental centers in Syria - Sweida)).

Academic Qualifications

- PhD in Information and Communications Engineering – Computer Networks Specialization – Anna University, India – PSG College of Technology,/ Faculty of Information & Communication Engineering – 2007
    - PhD Thesis Title: " PERFORMANCE ENHANCEMENT OF BROADBAND ACCESS DATA NETWORKS "
- ME in Communication Systems Engineering – Bharathiar University, India – PSG College of Technology – 2003
    - Mini Project Title: CHANNEL SHARING IN MULTI-HOP LIGHTWAVE NETWORKS
    - Main Project Title: TRAFFIC CONTROL MECHANISMS FOR BROADBAND NETWORKS

- PG – Diploma in (Computer Science and Control Systems Engineering) – Damascus University, Syria – Faculty of Mechanical and Electrical Engineering – 2000

- BE - Bachelor's Degree in Electronics Engineering – Damascus University, Syria – Faculty of Mechanical and Electrical Engineering – 1998.

Research published in international scientific journals:

1. **Wissam Al-Khatib** and Gunavathi K. (2006), 'A New Approach to Improve TCP Performance over Asymmetric Networks', Electronics and Electrical Engineering Journal, Vol. 7, No. 71, ISSN 1392-1215, Lithuania, pp. 13-18.
2. **Wissam Al-Khatib** and Gunavathi K. (2006), 'Improving TCP Performance of DOCSIS Based Broadband Networks', Information Technology Journal, Vol. 5, No. 6, ISSN 1812-5638, Pakistan, pp. 988-993.
3. **Wissam Al-Khatib** and Gunavathi K. (2007), 'Adaptive Collision Resolution Algorithm and Traffic Scheduling Mechanism for DOCSIS Based HFC Networks', Communications Technology and Electronics Journal, Vol. 52, No. 4, ISSN: 1064-2269, Russia, pp. 441-450.
4. **Wissam Al-Khatib** and Gunavathi K. (2007), 'A Novel Bandwidth Allocation Algorithm for DOCSIS Based Hybrid Fiber Coaxial Networks', Iranian Journal of Electrical and Computer Engineering (IJECE), Vol. 6, No. 1, ISSN 1682-0053, Iran, pp. 55-61.
5. **Wissam Al-Khatib** and Gunavathi K. (2008), 'A Novel Mechanism to improve performance of TCP Protocol over Asymmetric Networks', The International Arab Journal of Information Technology, Vol.5, No.1, ISSN: 1683-3198, Jordan.
6. **Wissam Al-Khatib** and Gunavathi K. (2005), 'Simulation Based Performance Analysis of TCP Connections', National Journal of Technology, Vol. 1, No. 2, ISSN 0973-1334, India, pp.33-36.
7. **Wissam Al-Khatib** and Gunavathi K. (2006), 'An Efficient Bandwidth Allocation Algorithm for DOCSIS Based Hybrid Fiber Coaxial Networks', ACCST Research Journal, Vol.4, No.2, ISSN 0972-7779, India.
8. **Wissam Al-Khatib**, Giridaran J. and Gunavathi K., 'A New Dynamic Algorithm to improve TCP Performance over Asymmetric Networks', accepted for publication in Journal of Systems Science and Engineering, Vol. 14, India.
9. **Wissam Al-Khatib** and Gunavathi K. (2006), 'A Novel Algorithm for Improving TCP Performance over Asymmetric Networks', National Journal of Technology, Vol 2, No.1, ISSN 0973-1334, India, pp.71-79.

Research published in international scientific conferences:

1. **Wissam Al-Khatib** and Gunavathi K. (2005), 'Adaptive Collision Resolution and Traffic Scheduling Algorithm for DOCSIS Networks', in the proc. of the International Conference on Intelligent Systems, ICIS 2005, Kuala Lumpur, Malaysia,
2. **Wissam Al-Khatib**, Giridaran J. and Gunavathi K. (2005), 'Performance of TCP over DOCSIS Protocol in HFC Broadband Access Networks', in the proc. of the International Conference on Intelligent Systems ICIS 2005, Kuala Lumpur, Malaysia.
3. **Wissam Al-Khatib** and Gunavathi K. (2005), 'Adaptive Bandwidth allocation Algorithm for DOCSIS Based HFC Networks', in proc. of the 13th International conference on advanced Computing and Communication (ADCOM-2005), Coimbatore, India, pp. 266-272.

4. **Wissam Al-Khatib** and Gunavathi K. (2006), 'A novel Dynamic Algorithm to improve TCP Performance over Broadband Asymmetric Networks', in the Proc. of 3rd International Conference ObCom-2006: Mobile, Ubiquitous & Pervasive Computing, Vellore Institute of Technology, Vellore, India
5. **Wissam Al-Khatib,** D.Vidhya, P.D.Rathika, K.Gunavathi, "An Adaptive Collision Resolution Algorithm for DOCSIS Protocol Based HFC Networks" in the proceedings of the International conference on Resource utilization and intelligent systems (INCRUISE-06), 4-6 January 2006, Kongu Engineering College. Perundarai, Erode 638052, India.
6. **Wissam Al-Khatib,** K.Vengadesan, K.Gunavathi, "An Enhanced-DRR Packet Scheduling Algorithm for High Speed Networks" in the proceedings of the International Conference on Intelligent Systems ICIS 2005, 1st - 3rd December 2005, Kuala Lumpur, Malaysia,
7. **Wissam Al-Khatib**, A.Rajeswari, K.Gunavathi, "Bandwidth Allocation Algorithm for DOCSIS Based HFC Broadband Networks", in the proceedings of the International Conference on Signal Processing, Communications and Networking IEEE – ICSCN 2007, 22nd – 24th February 2007, MIT Campus, Anna University, Chennai, India. pp.452-458.
8. **Wissam Al-Khatib** and Gunavathi K. (2005), 'A Survey of Broadband Access Data Networks and Performance Evaluation of DOCSIS Protocol on HFC Networks', in proceedings of National Conference of Emerging Technologies in Electronics and Communication , NCETEC -2005, Bharath Institute of Higher Education and Research (BIHER), Chennai, India, pp. 52-62.
9. **Wissam Al-Khatib** and Gunavathi K. (2005), 'Performance Evaluation of Upstream Channel in DOCSIS Cable Networks Protocol', in the proceeding of National Conference on Bio-Signal, Communication and Networking, NCBCN 2005, SSN College of Engineering, Near Chennai, India, pp. 125-130.
10. **Wissam Al-Khatib**, Vidhya D. and Gunavathi K. (2004), 'Performance Analysis of TCP for packet scheduling algorithms', in the proceeding of National conference on Mobile Computing and Networking, MOBCOMNET 2004, Vellore , India, pp.401-406.
11. **Wissam Al-Khatib**, Rathika P.D. and Gunavathi K. (2005), 'Analysis of Fairness of packet scheduling algorithms among TCP connections', in the proceeding of Emerging trends in electronics, Symposium Electro-2005, Banaras Hindu University, Varanasi, India, pp. 449-452.
12. **Wissam Al-Khatib,** P.D.Rathika, K.Gunavathi, "Simulation Based analysis of fairness of packet scheduling algorithms among TCP connections" in the proceeding 4th National conference on advanced computing (NCAC 2004), PSG college of technology, Coimbatore, December 10-11, 2004.
13. D.Vidhya, P.D.Rathika, **Wissam Al-Khatib**, K.Gunavathi, "Performance analysis of upstream channel in DOCSIS based HFC networks" in the proceeding of Second National Conference on Advanced Image Processing and Networking, NACIPAN 2005, Kovilpatti, India.
14. D.Vidhya, P.D.Rathika, **Wissam Al-Khatib**, K.Gunavathi, "Performance Evaluation of DOCSIS Protocol for HFC Cable Networks", in the proceedings of second national conference on Netwok Engineering – NCON2005 at March 4th & 5th 2005, pp. 8 – 14, Arulmigu Kalasalingam College of Engineering. Virudhunagar. India.

HONOURS & AWARDS:

Awarded two times**, "Best Paper Award"** at scientific conferences:

1. MOBCOMNET-2004 (Wissam Al-Khatib, Vidhya D. and Gunavathi K. (2004), 'Performance Analysis of TCP for packet scheduling algorithms', in proceeding of National conference on Mobile Computing and Networking, MOBCOMNET 2004, Vellore, India, pp.401-406).
2. NCETEC -2005 (Wissam Al-Khatib and Gunavathi K. (2005), 'A Survey of Broadband Access Data Networks and Performance Evaluation of DOCSIS Protocol on HFC Networks',

in proceedings of National Conference of Emerging Technologies in Electronics and Communication, NCETEC -2005, Bharath Institute of Higher Education and Research (BIHER), Chennai, India, pp. 52-62).

Academic Experience

Syrian Private University (SPU) **11/2008 up to date.**

Faculty of Artificial Intelligence Engineering, **Damascus, Syria**

2008-2009: Senior Lecturer, Faculty of Computer and Informatics Engineering.

2009-2010: Head of the Basic Sciences Department and the Computer and Control Engineering Department, Faculty of Computer and Informatics Engineering.

2010-2011: Senior Lecturer, Faculty of Computer and Informatics Engineering.

2011-2013: Vice Dean of the Faculty of Computer and Informatics Engineering for Administrative and Student Affairs.

2011-2012: Head of the Computer and Control Engineering Department, Faculty of Computer and Informatics Engineering.

2012-2013: Head of the Communications and Networks Engineering Department, Faculty of Computer and Informatics Engineering.

2013-2016: Senior Lecturer, Faculty of Computer and Informatics Engineering (part-time).

2019-2020: Senior Lecturer, Faculty of Computer and Informatics Engineering (part-time).

2020-2023: Vice Dean of the Faculty of Informatics Engineering for Administrative and Student Affairs and for Academic Affairs, and Head of the Department of Communications Engineering.

2023-2025: Vice Dean of the Faculty of Informatics Engineering for Administrative and Student Affairs and Head of the Department of Communications Engineering.

2025-2026: Senior Lecturer in the Faculty of Artificial Intelligence Engineering / Full-time.

- Developing and improving all proposals related to academic and educational affairs, as well as scientific research and higher education at the College of Informatics Engineering.
- Overseeing the college's operations in academic and educational affairs, as well as scientific research and higher education, and monitoring the implementation of decisions made by the Higher Education Council, the University Council, and the College Council in these areas.
- Chairing the College's Examinations and Quality Assurance Committee.
- Updating the curriculum and courses every five years to align with the latest regional and international curricula.

- Heading the Computer Engineering and Control Engineering Department and the Communications and Networks Engineering Department, and assigning courses to faculty members.
- Providing guidance to faculty members regarding the admissions process for various specializations.
- Teaching over 22 courses in Arabic and English for all levels, particularly specialized courses in the Department of Communications and Networks Engineering, offered in both Arabic and English for all academic levels. These courses include: Information Theory, Data Transmission, Computer Networks, Network Application Programming, Network Security, Logic Circuits, Electrical Circuits 1, Electrical Circuits 2, Fundamentals of Electronics Engineering, Electronic Circuits 1, Electronic Circuits 2, Electrical and Electronic Circuits, Fundamentals of Communication Systems, Analog Communications, Digital Communications, Optical Communications, Mobile and Wireless Communications, Computer Network Management and Protocols, Computer Network Management, Computer Network Protocols, Information Systems Security, and others.
- Providing guidance services to students regarding their future careers and postgraduate studies.

Damascus University

Faculty of Informatics Engineering, **Damascus, Syria**

PhD in Informatics Engineering, **from 12/2007 to 9/2024**

1999-2000: Lecturer, Directorate of Systems and Information, Damascus University, Syria.

2007-2010: Senior Lecturer, Directorate of Systems and Information, Damascus University, Syria.

2008-2010: Senior Lecturer, Faculty of Informatics Engineering, Damascus University, Syria.

2019-2024: Senior Lecturer, Faculty of Informatics Engineering, Damascus University, Syria.

- I taught various courses at the Faculty of Informatics Engineering, including: Computer Network Design, Computer Network Security, Computer Networks, Computer Communication Protocols, Digital Communications, Logic Circuits, Network Application Programming, and Computer Network Administration.

Damascus University

Faculty of Mechanical and Electrical Engineering II, **Sewayda, Syria**

PhD in Computer Engineering from September **2019 to July 202**

- I taught various courses at the Faculty of Mechanical and Electrical Engineering II, including: Introduction to Computers and Programming, Programming 1, Programming 2, Industrial Electronics, Communication Theory, and Logic and Digital Systems.

PSG College of Technology, Coimbatore, India

2000-2007: Researcher at PSG Technical College, Coimbatore, India.

- Taught the following courses in English: Computer Networks, Broadband Access Networks, and Optical Communication Systems.

- Supervised Master's theses and undergraduate students as an assistant supervisor in the Department of Electronics and Communications Engineering.

Work Experience

Ministry of Interior, Damascus, Syria

Information Technology Directorate / Civil Affairs / Central Administration, October 2010 to July 2019

- Supervisor of the National and Interoperable Server in the Information Technology Directorate / Civil Affairs / Ministry of Interior.
- Supervisor of the employee selection competition and development of the automated questions for the national employee appointment exam in the Civil Affairs Directorates.

Training courses and certifications

International certifications in computer networks:

1- RHCE (Red Hat Certified Engineer)
2- CCNA (Cisco Certified Network Associate)
3- MCP (Microsoft Certified Professional)
4- MCSA (Microsoft Certified Systems Administrator)
5- MCSE (Microsoft Certified Systems Engineer)

Computer Skills:

- Programming Languages: C and C++
- Software: MATLAB 7.0 and NS-2 Simulator
- Operating Systems: Windows and Linux

Scientific Contributions (Refer to articles and research papers published in scientific journals and presented at scientific conferences)

- International Scientific Journals (5 articles)
- International Scientific Journals - India (4 articles)
- International Scientific Conferences (7 conferences)
- Regional Scientific Conferences - India (7 conferences)

Scientific Bodies and Associations:

- Engineers Syndicate – Syria
- Syrian Informatics Society
- Life Member of the Systems Society of India
- Member of the Advanced Computing & Communication Society of India

Skills

- Excellent teaching and interpersonal skills
- Excellent project management and supervision skills
- Proficient in Microsoft Office applications and internet browsing
- Excellent social media management and usage skills (Facebook, LinkedIn, and Whats Up)
- Excellent leadership and management skills
- Excellent public relations and communication skills
- Ability to work effectively under pressure
- Excellent teamwork skills
- Excellent negotiation skills

Memberships:

- Syrian Engineers Syndicate
- Syrian Informatics Society
- Life Member of the Systems Society of India
- Member of the Advanced Computing & Communication Society of India

Languages:

- Arabic: Native language.
- English: Fluent (reading, writing, and speaking).

Personal Information

- Place of Birth: Chaaf, Syria
- Nationality: Syrian
- Marital Status: Married

All supporting documents are available upon request.