

AHMED EL-HADAD

Assistance Professor (Software Engineering)

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OVERVIEW

Networking, Communications and IT Lecturer (19 years in Australia)

Network and Communications Engineer (14 years in Australia and Middle East)

- ◆ Doctor of Philosophy PhD, Melbourne Graduate School of Science, University of Melbourne, Australia. Master of Engineering Science in Telecommunication Engineering in the fields of Communications, Networking and Information Technology, Victoria University of Technology, Australia.
- ◆ Nineteen years academic experience in lecturing and tutoring Networking, Communications, Information Technology and Project Management courses to postgraduate, undergraduate and diploma students at Istanbul Aydın University (İAÜ), Central Queensland University (CQU), Charles Sturt University (CSU), Federation University (FedUni), Melbourne Polytechnic (MP) and the University of Sunshine Coast (USC), in addition to curriculum development and design of online courses at La Trobe University (LTU) and Universal Higher Education (UHE), Australia.
- ◆ Academic and teaching experience involves the development and upgrading of unit material (e.g. course description, lecture notes, tutorial and lab exercises, assignments, on-line quizzes, mid-term tests and final exams); carrying out student consultations, unit coordination and moderation; partaking in students' enrolment process, school academic meetings and professional development (PD) activities and utilising various teaching and learning systems such as Turnitin, Moodle, Peerwise and BlackBoard.
- ◆ Fourteen years professional, hands-on experience in Network Engineering and Communications, specialising in the configuration, installation and planning of LAN/WAN networks. Troubleshooting and resolving highly complex network problems with expertise in network monitoring and administering, using various tools such as Network Management System (NMS), Cisco Works, Bay Optivity and others. Managed several projects for networks in Australia and the Middle East.
- ◆ Attained Cisco Certified Network Associate (CCNA) Routing and Switching Certification (ICND1 and ICND2). Thorough experience in the configuration and installation of Cisco routers and switches with comprehensive understanding of a range of LAN and WAN protocols and security.

EDUCATIONAL DEGREES

Doctor of Philosophy PhD (2018)

Melbourne Graduate School of Science
University of Melbourne (UoM)¹, Melbourne, Australia.

Master of Engineering Science in Telecommunication Engineering (2004)

School of Electrical Engineering
Victoria University of Technology (VUT), Melbourne, Australia.

Bachelor of Engineering (1989)

Communications and Electronics Department
Ain Shams University, Cairo, Egypt.

ACADEMIC EXPERIENCE

October 23 – Now

Assistance Professor (Software Engineering)

Istanbul Aydin University (İAÜ), Istanbul, Türkiye.

Responsibilities & Accomplishments

- ◇ Lecture Networking, IT and Security courses to İAÜ undergraduate and Postgraduate students in Istanbul, Türkiye.
- ◇ Units taught are: Advanced Data and Network Security; Computer Network Systems; Computer Networks; Cryptography and Network Security; Cyber Security; Operating Systems; Operating Systems and Computer Hardware; and Software Project Management.

January 23 – July 23

Curriculum Developer

Universal Higher Education (UHE), Melbourne, Australia.

Responsibilities & Accomplishments

- ◇ Creating and developing Cyber Security courses for Master of Information Technology (MIT).
- ◇ Units taught/developed: Applied Cybersecurity.

February 22 – June 23

Curriculum Development of Online Courses

La Trobe University (LTU), Melbourne, Australia.

Responsibilities & Accomplishments

- ◇ Working in association with Wiley Australia for Blueprint and Storyboard development of online courses.
- ◇ Creating and developing Micro-A and Micro-B online courses in Cyber Security department.

¹ The University of Melbourne ranks No 1 in Australia and No 32 in the World University Ranking (Times Higher Education, 2019).

- ◇ Units taught/developed: The psychology of hacking; Hacking: The business and criminological frames; and Inside the Mind of a Hacker.

July 18 – June 23

Lead Lecturer and Tutor

Melbourne Polytechnic (MP), Melbourne, Australia.

Responsibilities & Accomplishments

- ◇ Lecture and tutor Networking and Security units to MP students in Melbourne (Preston and Prahran campuses).
- ◇ Units taught are: Network Design; Network Security; Network Architecture and Protocols; and Network Vulnerability and Penetration Testing.

March 16 – Jan 22

Lead Lecturer and Tutor

Central Queensland University (CQU), Melbourne, Australia.

Responsibilities & Accomplishments

- ◇ Lecture and tutor Networking, IT and Project Management units to CQU's postgraduate students in Melbourne campus.
- ◇ Units taught are: Advanced Network Security; Network Routing and Switching; Network Design; Information Security Management; Networks and Information Security Project; Distributed Systems (Principles and Development); and Project Management Concepts.

March 15 – July 23

Lead Lecturer and Tutor

Charles Sturt University (CSU) Study Centre, Melbourne, Australia.

Responsibilities & Accomplishments

- ◇ Lecture and tutor Networking, IT and Management units to undergraduate and postgraduate students of CSU in Melbourne.
- ◇ Units taught are: Wireless Networking Concepts; Wireless Networks; Ethics and Professional Practice; IT Security; Information Security; Network Security and Cryptography; Internet of Things (IoT); and IT Project Management.

March 10 – March 21

Lead Lecturer and Tutor

Australian Technical and Management College (ATMC), a partner of Federation University (FedUni), and the University of the Sunshine Coast (USC), Melbourne, Australia.

Responsibilities & Accomplishments

- ◇ Lecture and tutor Communications, Networking and IT units to undergraduate and postgraduate students of the School of Engineering and Information Technology, Federation University.
- ◇ Units taught for FedUni are: Data Communications Management; Networking and Security; Network Operating Systems; Network Protocols and Services; Advanced Network Services; Open Source and Linux; and Leadership in IT Project Management. Units taught for USC: Telecommunications and Networks; ICT Professional Practice and Ethics; ICT Project Management; and Advanced Network Topics (Management and Security).

March 05 – July 2022

Lead Lecturer and Tutor

Melbourne Institute of Technology (MIT), a partner of Federation University (FedUni), Melbourne, Australia.

Responsibilities & Accomplishments

- ◇ Lecture, tutor and coordinate Communications, Networking and IT units to diploma, undergraduate and postgraduate students of the School of Engineering and Information Technology, Federation University.
- ◇ Units taught for MIT are: Local Area Networks; Wide Area Networks; Networking Fundamentals; System Administration and Management; Internetworking Technologies; Operating Systems; Advanced Network Design; Networked Applications; and Virtual Private Networks (VPN). Units taught for FedUni are: Data Communications Management; Introduction to IT Project Management; Network Operating Systems; Network Protocols and Services; and Advanced Network Services.

PROFESSIONAL EXPERIENCE

March 01 – Oct 02

Applications and Support Developer

VisibleVoice Pty Ltd, Melbourne, Australia.
Innovative supplier of Interactive Telephony Solutions in Australia.

July 00 – Jan 01

Communications Manager

Wishlist (wishlist.com.au), Melbourne, Australia.
An e-commerce Australian company.

March 95 – Feb 00

Communications Engineer - Network Specialist

Kuwait Finance House (KFH), Kuwait.
Leading bank in Kuwait.

Sep 93 - March 95

Technical Manager

Arabian Computer Systems (ACS), Kuwait.
Communication network integrators and Motorola agent in Kuwait

April 90 - Sep 93

Communications and Network Engineer

Systems Engineering of Egypt (SEE), Cairo, Egypt.
Leading communication network integrator and Motorola agent in Egypt

PUBLICATIONS & PRESENTATIONS

El-Hadad, A. (2021). *Unwelcome Friends: Termites and Environmentally Friendly Detection Techniques*. Rīgā, Latvia: Scholars' Press.

El-Hadad, A., & Brodie, G. I. (2019). Using Acoustic Emission Technique to Detect Termite Activities in Wood: Laboratory Experiment. *Forest Products Journal*, 69(1): 17-25.

El-Hadad, A., Brodie, G. I., & Ahmed, B. S. (2018). The Effect of Wood Condition on Sound Wave Propagation. *Open Journal of Acoustics*, 8(03): 37.

El-Hadad, A. (2017). *Using acoustic emission technique with Matlab® analysis to detect termites in timber-in-service*. PhD thesis, Melbourne, Australia: Faculty of Science, University of Melbourne.

El-Hadad, A. (2011). The principles of sound movement in wood and termite detection. *Department of Forest and Ecosystem Science Yearbook 2011*. Melbourne, Australia: University of Melbourne.

El-Hadad, A. (2011). *Utilising Acoustic Techniques for Termite Detection in Timber-in-Service*. Paper presented at the MSLE Ninth Annual Graduate Research Conference, University of Melbourne, Dookie, Australia (November 2011).

El-Hadad, A. (2011). *Utilising Acoustic Environmentally-Friendly Termite Detection System for Timber-in-Service Protection*. Paper presented at Seminar Series WSS, University of Melbourne, Creswick, Australia (September 2011).

El-Hadad, A. (2010). *Using Non-Destructive Acoustic Emission Technology for Detecting and Locating Termites in Timber-in-Service*. Paper presented at the MSLE Eighth Annual Graduate Research Conference, University of Melbourne, Dookie, Australia (November 2010).

AFFILIATIONS & AWARDS

- ◇ Australian Postgraduate Award (APA) – Industry (2009)
- ◇ Qualifications certified as equivalent to a Professional Engineer in Australia by the Institution of Engineers, Australia (IEAust) (1998)
- ◇ Member of the Syndicate of Engineers, Egypt (since 1989)

CERTIFICATIONS & TRAINING COURSES

- ◇ CCENT Cisco Certified
- ◇ CCNA Routing and Switching Cisco Certified
- ◇ Using MATLAB for Signal Processing
- ◇ Advanced Cisco Router Configuration (ACRC)
- ◇ Introduction to Cisco Router Configuration (ICRC)
- ◇ Developing Management and Supervision Skills
- ◇ Administering Microsoft Windows NT 4.0

