



## Omar Hamdy, Ph.D.

Assistant Professor of Instruction  
Erik Jonsson School of Engineering and Computer Science  
The University of Texas at Dallas  
800 West Campbell Road, Richardson, Texas 75080  
(972) 883-2692, [omar.hamdy@utdallas.edu](mailto:omar.hamdy@utdallas.edu)

### Education and Academic Degrees

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University of Victoria, Victoria, Canada 2010	PhD, Major in Computer Engineering (Biometric Security) Thesis: HOMOGENEOUS COGNITIVE BASED BIOMETRICS FOR STATIC AUTHENTICATION
University of Victoria, Victoria, Canada 2000	MSc, Major in Computer Engineering (WAN Networks) Thesis: ILN Switching Element Design and Performance Measure

### Research Focus

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My research interest is in the domain of biometric security for static and dynamic authentication and forensics. In particular, I'm focused on behavioral biometrics, which is still an emerging field of research. I also have research interest in the field of Brain-Computer-Interaction (BCI)

### Academic Experience

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Adjunct Professor, Feb 2021 – Present	STEM, American Public University Teaching undergraduate cybersecurity and computer networks courses.
Adjunct Professor, May 2020 – Present	CS, Florida Institute of Technology Teaching computer security specialized courses including biometric security, network security and digital forensics.
Adjunct Professor, Sep 2019 – Present	ITS, University of Cumberlands, KY Teaching wide range of PhD graduate classes including Enterprise Risk Management, InfoTech strategic planning, Cryptography and Information Governance.
Adjunct Professor, April 2018 – Jun 2019	CST, UMUC, MD Teaching different digital security, cybersecurity and digital forensics graduate classes
Senior Lecturer, May 2010 – Feb 2014	CSE, Helwan University, EGY Work includes teaching different computer science courses for different academic years including advanced object-oriented programming, operating systems, Human -Computer Interactions, digital security, and others. Also supervise student graduation projects and assist in proposing the undergraduate curriculum.

Program Director, Sep 2010 – Jun 2011	Director of the Faculty Accreditation Program Work includes planning and managing the long process required for Helwan University, Faculty of Computers and Information to be accredited by the National Authority for Quality Assurance & Accreditation of Education – EGY
Lecturer, Sep 2010 – Dec 2012	Lecturer, CSE, Future University, EGY Teaching programming language classes and supervising graduation projects for the faculty senior students.

## Publications

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- O. Hamdy and I. Traore, "New physiological biometrics based on human cognitive factors," *IEEE International Conference on Complex, Intelligent and Software Intensive Systems*, vol. 0, pp. 910{917, 2009
- O. Hamdy and I. Traore, "Cognitive-based biometrics system for static user authentication," *IEEE International Conference on Internet Monitoring and Protection*, vol. 0, pp. 90{97, 2009.
- O. Hamdy and I. Traore, "Homogenous physio-behavioral visual and mouse based biometrics," *ACM Transactions on Computer and Human Interaction (TOCHI)*, 2010.

## Academic Referee

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- Brent Carrara and Carlisle Adams, "You are the Key: Generating Cryptographic Keys from Voice Biometrics", *IEEE Eighth International Conference on Privacy, Security and Trust*, vol. 0, 2010
- Hanul Sieger, Niklas Kirschnick, Sebastian M"oller , "User preferences for biometric authentication methods and graded security on mobile phones", *IEEE Eighth International Conference on Privacy, Security and Trust*, vol. 0, 2010
- Pedram Radmand and Alex Talevski, "Impact of Encryption on QoS in VoIP", *IEEE Eighth International Conference on Privacy, Security and Trust*, vol. 0, 2010

## Industrial Experience

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I have accomplished a long experience in different industry sectors including government, education, financial, telecommunication and medical sectors. In my 20+ years long industrial experience journey, I worked at different roles, as a consultant, an architect and as a director. My expertise is in emerging technologies, digital transformation, business process management (BPM) and IoT.