

# **Curriculum Vitae**

## **Personal Information:**

- Name: Dalia Mohamed Nashat Mohamed
- Gender: Female
- Nationality: Egyptian
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## **Academic Qualifications:**

- Ph.D. Information Science (March 2010) Graduate school of Information Science, Tohoku University, Japan.
- M. Sc. Computer Science (2004) Faculty of Science, Assiut University, Egypt.
- B. Sc. Computer Science (1998) Faculty of Science, Assiut University, Egypt.

## **Academic Position:**

- December 2022 till now Associate Professor of Information Technology, Information Technology Department, Faculty of Computers and Information, Assiut University, Egypt.
- November 2020 to November 2022: Lecturer of Information Technology, Information Technology Department, Faculty of Computers and Information, Assiut University, Egypt.
- May 2010 to October 2020: Lecturer of Computer Science, Mathematics Department, Faculty of Science, Assiut University, Egypt.
- September 2011 to August 2014: Assistant Professor, Computer Science Department, Faculty of Computers and Information Technology, Taif University, Taif, Saudi Arabia.
- October 2006 to March 2010: Ph.D. student, Graduate school of Information Science, Tohoku University, Japan.
- From June 2004 to April 2010: Assistant lecturer of Computer Science, Mathematics Department, Faculty of Science, Assiut University, Egypt.
- February 1999 to May 2005: Demonstrator of Computer Science, Mathematics Department, Faculty of Science, Assiut University, Egypt.

## **Administrative positions:**

- October 2024 till now Vice Dean for Community Service and Environmental Development, Faculty of Computers and Information, Assiut University, Egypt.
- September 2011 to August 2014: Head of Information Technology Department, Faculty of Computers and Information Technology, Taif University, Taif, Saudi Arabia.

## **Work Experience:**

- Teaching of the following courses in the faculties of Science, Education, Pharmacy, Agriculture and Veterinary medicine, Assiut University, Egypt

- Introduction to Computer Science.
  - Computer Networks.
  - Programming Languages.
  - Image Processing.
  - Algorithms.
  - Theory of Compilers.
  - Cryptography.
  - Object-Oriented Programming.
  - Data Communication.
  - Wireless Networks.
  - Network analysis and design.
  - Cyber Security.
  - Web Programming.
- Supervision of Ph.D. and M.Sc. students.
  - Computer Science program coordinator (2014 to 2020, Mathematics Department, Faculty of Science, Assiut University).
  - Member of Quality Assurance in the Faculty of Computers and Information.

### **Research interests:**

Networks Security- Distributed Denial of Service Attacks- Anomaly Detection- IP spoofing prevention- Defense Mechanisms- Signal Processing.

### **Editorial board positions:**

- Member of Assiut Univ. J. of Mathematics and Computer Science editor board (2014-2017).
- Member of Journal of Networking and Network Applications editor board (2022 till now).

### **List of published papers**

- **D.Nashat**, X.Jiang, S.Horiguchi, "Router Security Review," in *Proc. of the IEEE workshop HPSRN*, Japan, 2007.
- **D.Nashat**, X.Jiang, S.Horiguchi, "Detecting SYN Flooding Agents", in *Proc. of the IEEE workshop HPSRN*, Japan, 2008.
- **Dalia Nashat**, Xiaohong Jiang and Susumu Horiguchi, "Router Based Detection for Low-Rate Agents of DDoS Attack", in *Proc. of the IEEE HPSR*, China, 2008.
- **Dalia Nashat** and Susumu Horiguchi, "Router- based Defense against DDoS Attack", in *Proc. of EJISST*, Japan, 2008.
- **Dalia Nashat**, Xiaohong Jiang and Susumu Horiguchi, "Detecting SYN Flooding Agents under Any Type of IP Spoofing", in *Proc. of the IEEE ICEBE*, China, 2008.
- Yusuke Fukushima, Xiaoliang Wang, **Dalia Nashat**, Xiaohong Jiang and Susumu Horiguchi "Optical Switches and Optical Buffer Designs for High-Speed Optical Networks", in *Proc. of the SOIM-GCOE*, Japan, 2008.

- **Dalia Nashat**, Xiaohong Jiang and Susumu Horiguchi "On The Detection of DDoS Attackers for Large-Scale Networks" in *Proc. of the IEEE ICEBE*, China, 2009.
- **Dalia Nashat**, Abeer Shoker, Fowzyah Al-Swat, and Reem Al-Ebailan. "An android application to aid uneducated deaf-dumb people." *International Journal of Computer Science and Mobile Applications* 2, no. 9 (2014): 1-8.
- **Dalia Nashat**, G. Z. Khalifa, M. G. Mohamed, and N. Abd Alraheem. "Android Application for Epilepsy Detection and Monitoring." *International Journal of Advanced Research in Computer Science and Software Engineering* 5, no. 9 (2015).
- Al-Bokhity, B., **Dalia Nashat**, and T. M. Nazmy. "Accuracy Enhancement of the Epileptic Seizure Detection in EEG Signals." *Applied Mathematics & Information Science* 11, no. 6 (2017): 1693-1702.
- Al-Bokhity, B., **Dalia Nashat**, and T. M. Nazmy. "A fuzzy classifier based detection for epileptic seizure signals." In *2017 13th International Computer Engineering Conference (ICENCO)*, pp. 100-105. IEEE, 2017.
- S.Khairi and **Dalia.Nashat**. "A Novel Detection Scheme for HTTP Flooding Attacks." In the third international conference on new horizons in basic and applied sciences [ICNHBAS 2017].
- **Dalia Nashat** and Ali A. Amer. "A Comprehensive Taxonomy of Fragmentation and Allocation Techniques in Distributed Database Design." *ACM Computing Surveys (CSUR)* 51, no. 1 (2018): 12.
- S.Khairi and **Dalia.Nashat**. "Detection of application layer DDoS attacks based on Bayesian classifier." *Assiut Univ. J. of Mathematics and Computer Science* 47, no. 1 (2018): 1- 13
- **Dalia Nashat**, Hanaa A. Sayed and Fatma. A. Hussien. " Multifractal Detrended Fluctuation Analysis Based Detection for SYN Flooding Attack." In the 6th international conference for Young Researchers for Basic and Applied Science (ICYS-BAS 19)
- Loay Mamdouh and **Dalia Nashat**. "An Improved LSB Inversion Image Steganographic Technique." *Assiut Univ. J. of Mathematics and Computer Science* 48, no. 2 (2019): 110- 124
- **Dalia Nashat**, and Loay Mamdouh. "An efficient steganographic technique for hiding data." *Journal of the Egyptian Mathematical Society* 27, no. 1 (2019): 1-14.
- **Dalia Nashat**, and Fatma A. Hussain. "Multifractal detrended fluctuation analysis based detection for SYN flooding attack." *Computers & Security* 107 (2021): 102315.
- **Dalia Nashat**, and S. Khairy. "Detecting Http Flooding Attacks Based on Uniform Model." In *2021 International Conference on Networking and Network Applications (NaNA)*, pp. 94-98. IEEE, 2021.
- **Dalia Nashat**, S. Khairy, and Montaser M. Hassan. "Detection of Application Layer DDoS Attack Based on SIS Epidemic Model." *IEEE Access* 9 (2021): 159827-159832.

- **Dalia Nashat**, Fatma A. Hussain, and Xiaohong Jiang. "Detection of Distributed Denial of Service Flooding Attack Using Odds Ratio." *journal of networking and network applications* 1, no. 2 (2021).
- S. M. Morsy, and **Dalia Nashat**. "D-ARP: An Efficient Scheme to Detect and Prevent ARP Spoofing." *IEEE Access* 10 (2022): 49142 – 49153.
- Fatma A. Hussain, and **Dalia Nashat**. "Time Series Similarity for Detecting DDoS Flooding Attack." *Assiut University Journal of Multidisciplinary Scientific Research (AUNJMSR)* 2022.