Fatma Abd-Alhaleem Hussain Abd-Alhaleem

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Personal Information	**Name**: Fatma Abd-Alhaleem Hussain Abd-Alhaleem **Nationality:** Egyptian **Gender**: Female **Date of Birth**: February 8, 1987 **Additional E-mail**: fatma.cs9@gmail.com **Tel.:** 01021089598

Education

➢ **Ph.D.** 2022

Ph.D. of Philosophy in Mathematics (Computer Science), Mathematics Department, Faculty of Science, Assiut University.
Thesis: Advanced Detection Schemes for Distributed Denial of Service Attacks.
Advisor: Dr. Dalia Mohamed Nashat.

➢ **M.Sc.** 2011 — 2014

Master of Computer Science, Mathematics Department, Faculty of Science, Assiut University.
Thesis: Interactive Face Image Deformation Based on Bounded Biharmonic Weights.
Advisor: Prof. Khaled Fathy Hussein Saleh.

➢ **Pre Master in Computer Science** 2010

Mathematics Department, Faculty of Science, Assiut University.
October 2010, (Very Good).
1. Linear Algebra
2. Numerical Analysis
3. Programming Languages
4. Wrokshop
5. Special course in computer
6. Optional course
7. Algorithms

➢ **B.Sc.** 2004 — 2008

Bachelor of Mathematics (Computer Science**),** Mathematics Department, Faculty of Science, Assiut University.
Graduated May, 2008, (Very Good with honor degree).

Professional Experience	➢ **Lecturer**	2022 ▬▬▬▬

Department of Information Technology, Faculty of Computers and information, Assiut University.

➢ **Assistance lecturer** 2020 ▬▬▬▬ 2022

Department of Information Technology, Faculty of Computers and information, Assiut University.

➢ **Assistance lecturer** 2014 ▬▬▬▬ 2020

Mathematics Department, Faculty of Science, Assiut University.

➢ **Demonstrator** 2009 ▬▬▬▬ 2014

Mathematics Department, Faculty of Science, Assiut University.

Research areas
- ➢ Networks Security
- ➢ Defense mechanisms
- ➢ Computer Networks
- ➢ Image Processing

Teaching Experience
- ➢ Network Security
- ➢ Information Assurance and Security
- ➢ Cyber Security
- ➢ Data Communication
- ➢ IT Fundamentals
- ➢ Computer Networks
- ➢ Network Analysis and Design
- ➢ Wireless and Mobile Computing
- ➢ Web Programming
- ➢ Programming Languages (Matlab, C++, Java, and python)
- ➢ Numerical Analysis
- ➢ Data Structure

Publications

➢ Dalia Nashat, Hanaa A. Sayed, and Fatma. A. Hussain. "Multifractal Detrended Fluctuation Analysis Based Detection for SYN Flooding Attack", has been presented in The 6th International Conference for Young Scientists in Basic and Applied Sciences (ICYS-BAS 19) 27-30th March 2019, Faculty of Science-Assiut University, (Oral presentation).

➢ Dalia Nashat, and Fatma A. Hussain. Multifractal Detrended Fluctuation Analysis Based Detection for SYN Flooding Attack. Computers & Security 107 (2021): 102315.

➢ Dalia Nashat, Fatma A. Hussain, and Xiaohong Jiang. Detection of Distributed

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Denial of Service Flooding Attack Using Odds Ratio. Journal of Networking and Network Applications. 2021, Volume 1, Issue 2, pp. 67-74. https://doi.org/10.33969/JNaNA.2021.010204

➢ Fatma A. Hussain and Dalia Nashat , "Time Series Similarity for Detecting DDoS Flooding Attack". Assiut University Journal of Multidisciplinary Scientific Research. 2022, Volume 51, Issue 3, pp. 229-241.

➢ Khaled F. Hussain, FatmaAbd-Alhaleem."Enhancement of Interactive Face Image Deformation Based on Bounded Biharmonic Weights", has been presented in The First International Conference on New Horizons in Basics and Applied Science (ICNHBAS 13), Hurghada, Egypt, Sep 21-23, 2013, (Oral Presentation).

Workshops	➢ Attending The 6th International Conference for Young Scientists in Basic and Applied Sciences (ICYS-BAS 19) 27-30th March 2019, Faculty of Science-Assiut University
	➢ Attending The First International Conference on New Horizons in Basics and Applied Science (ICNHBAS13), Sep 21-23, Hurghada, Egypt, 2013.
Skills	➢ Programming languages: Matlab, C++, HTML, CSS, Javascript, PHP, Java, and Python.
	➢ Desktop Publishing: LaTeX, Microsoft Office, WinEdit.
	➢ Software Skills: 3D graphics modeling (3ds Max).