Dr. Aghiad Kh. Alkatan

(Associate Professor)

Phd, Computer Science,

Artificial Intelligence and Robotic System

د. أغيد القطعان

(أستاذ مساعد)

دكتوراه في علوم الحاسوب

الذكاء الصنعي والنظم الروبوتية

Personal Information

Name:	Dr. Aghiad Kh. Alkatan	د. أغيد القطعان
Organization:	Computer & Automation Engineering. Damascus University.	
Specialization:	Computer Science (Artificial Intelligence)	
D.O.B.	**1969**	
Gender	Male	
Family Status:	Married	
E-mails:	Aghiad_kh@hotmail.com	
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Education:

Degree in mathematical sciences	Sciences Faculty AL Baath University	1992
Certificate of teaching the Unix operating system	Faculty of Mechanical Engineering and Electrical Damascus University.	1995
Diploma in Computer Science		1998
Master of Computer Science **Titled:** Development of Software Tool for Evolutionary Algorithms	Department of Computer Science Faculty of Science Cairo University In cooperation with Electronic Research Institute - National Research Center (Cairo) "Artificial Intelligence"	2001
Ph.D. in computer science **Titled:** A Novel Schema and Crossover Representation for Genetic Programming Applications (Analysis and Practical Experimentation)		2005
Certificate of teaching methods	Faculty of Education Damascus University	2006

Teaching Experience:

Computers and Automation Engineering,

Faculty of Mechanical Engineering and Electrical, Damascus University.

➢   1993-1997   Lecturer in laboratories software.

➢   Since 2005 up to date   Lecturer in Computers and Automation

  department.

➢   Annually, Since 2005 up to date   Supervisor on graduation projects in

  Computers and Automation department.

➢   **Undergraduate Courses:**

  1)   Artificial Intelligence

  2)   Robotic systems and programmed machines

  3)   Algorithms and data structures

  4)   Programming (1) , C++

  5)   Programming (2) , C++

  6)   Introduction to Computer

  7)   Systems Analysis

➢   **Graduate Courses: "Master's degree"**

  1)   Pattern Recognition

  2)   Computation Theory

  3)   Linear Control of the Robot

  4)   Artificial Intelligence

Teaching Experience (Cont. 1):

College of Engineering and Technology,
International University for Science and Technology (IUST)

➢   Since 2007 up to date   Lecturer in IT department.

➢   **Undergraduate Courses:**

    1)   Artificial Intelligence fundamental

    2)   Algorithms and data structures

    3)   Theory of Computation (Automata)

    4)   Computer Graphics

    5)   Web Programming

    6)   Introduction to Operating System

    7)   Electronic Commerce

    8)   Analysis of Information Systems

    9)   Systems Analysis and Design

    10)   Computer Skills (1) — Office Package

    11)   Computer Skills (2) — VB programming Language

    12)   Theory of Computation

    13)   Programming Fundamentals

Faculty of Engineering Informatics, AL Baath University

➢   2008   Visiting Lecturer

    Courses

➢   **Undergraduate Courses:**

    1)   Software Engineering (1), and Software Engineering (2)

Application Faculty, Damascus University.

➢   2015 - 2016 - 2017   Visiting Lecturer in "Mechatronics", and "Technical of Computers" departments.

Courses

➢   **Undergraduate Courses:**

1) Programming (1), and Programming (2) - C#

2) Advanced Programming , C#

3) Algorithms and data structures, based C#

4) Data Base (1) , SQL

5) Data Base (2) , SQL

Faculty of Mechanical Engineering and Electrical, Alsuwayda University.

➢   2018-2019   Visiting Lecturer

Courses

➢   **Undergraduate Courses:**

1) Mathematics for Engineering (1), and (2)

2) Programming (1), and Programming (2) - C++

Syrian Virtual University — BAIT and TIC programs

➢   Since 2018 up to date   Lecturer

Courses

➢   **Undergraduate Courses:**

1) Digital Electronics

Supervising Master and Ph.D.:

No.	Thesis	Subject	Supervisor	Done date
1)	Ph.D.	Control and Automation	participant	2008
2)	Master	Genetic Algorithms	participant	2010
3)	Master	Pattern Recognition	participant	2011
4)	Master	Robotic Systems	Main	2015
5)	Master	Pattern Recognition	Main	2016
6)	Master	Cloud Computing based AI	Main	2016
7)	Master	Deep Learning	Main	In progress
8)	Ph.D.	Robotic Systems & AI	Main	In progress
9)	Master	Robotic Systems & Control	Main	2019
10)	Ph.D.	Graph Neural Network	Main	In progress
11)	Ph.D.	Control and Robotic	Main	In progress
12)	Master	AI Social network	Main	In progress
13)	Master	AI for IOT	Main	In progress
14)	Master	Deep Learning	Main	In progress
15)	Master	Brain's Signal Processing	Main	In progress
16)	Master	Detecting engine errors (industrial automation)	Main	In progress
17)	Master	Detecting IC errors (industrial automation)	Main	In progress

Participant:

- **Member** in "Intelligent System Group". National Research Center (Cairo), Electronic Research Institute. Since 2000 up to date.

- **Supervisor** of Alumni Office, Computer & Automation Dept. (Since 2008 up to date).

- **Supervisor** of Robotic Club, Computer & Automation Dept. (Since 2014 up to date).

- **Supervisor** of team of "academic programming competition" (ACM), Computer & Automation Dept. (2021).

- **Arbitrator** of graduation projects in the Higher Institute for Applied Sciences and Technology - Department of Mechatronics, Damascus.

- **Arbitrator** of research papers in Damascus University journal for engineering science.

- **Participated** in JAICA 2008 and JAICA 2010 (Conference).

- **Participated** in Syrian Encyclopedia on Computer Science.

- **Participated** in Info-Magazine (Syrian Computer Society).

- **Participated** in (and lecturer) – ShamExpo 2007 and 2011 (Exhibition).

- **Participated** in Mena information & communications technology 2011.

- **Member** of the Committee for Developing the Specification for the Application Faculty courses. (2012)

- **Arbitrator** of World Robot Olympiad (WRO), Syria, 2019.

- **AMC-ICPC** Coordinator of the **AMC-ICPC** competition in the college.

Published Research:

1) "*Algorithms and Data Structures*", Dr. Aghiad Alkatan, Dr. Kamal Qomer. published by: (Arab Center for Arabization, translation, authoring and publishing), ISBN: 978-99333-602-11-6, Published (2019).

2) "*Identify people through an off-angle iris images using the eigenvalues*". AL Baath University Journal. (2017).

3) "*Features Extraction of eye iris image by replacing the pupil area*". Damascus University Journal. (2016).

4) "*Analysis and Design for LEGO-NXT software based on Java*". Damascus University Journal. (2014).

5) "*Using Clustering in Optimization of Distributed Industrial Data Systems Performance* ". Damascus University Journal Vol. (25) - No. (2) 2009.

6) "*Analysis of Complexity Structure in Genetic Programming*". 12th International Conference on Artificial Intelligence Applications, (2004).

7) "*Genetic Programming Crossover Based on the Predominant Building Block*", American University in Cairo, Computer Science Conference. (2005).

8) "*Genetic Programming Crossover based on the predominant building*", AI-2004: the twenty-fourth Annual International Conference of the British Computer Society's Specialist Group on Artificial Intelligence (SGAI).

9) "*New Crossover Operator Mechanism for Genetic Programming*", the ICCTA 2004 Conference.

Prof. Aghiad Kh. Alkatan   أ.م.د. أغيد القطعان