

## Curriculum Vitae

**Name** Dr. Mohamed Saeed Hussein Fahmy

**Nationality:** Egyptian

**Date of birth:** June 12 / 1954,

**Place of birth:** Tanta - Egypt.

**Permanent address:** 6 El-Hassan Street, of Amman str.-Giza - Egypt.

**Permanent Post:** Associate Professor - Department of Mathematics,  
Faculty of Science, Helwan University.

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### Academic Qualifications

- Ph.D.** " Study of algebra of automata mappings."  
Institute of Mathematics, Academy of Science, Russia,  
(January 1990).
- M.Sc.** " Homology groups of finite chains of simplicial complex over  
group of coefficients in a chain complex "  
Math.Dept, Faculty of Science, El- Azhar University, Cairo,  
Egypt (June 1983).
- B.Sc.** Math.Dept, Faculty of Science, Alexandria University,  
Alexandria, Egypt, ( May 1977)

### Employment History

- (1) Teaching Assistant (1978-1983): Department of Mathematics,  
Faculty of Engineering & Technology, Helwan University, Egypt
- (2) Assistant Lecturer (1983-1985): Department of Mathematics,  
Faculty of Science, Helwan University, Egypt
- (3) Ph.D. student (1985-1990): Institute of Mathematics, Academy of  
Science, Russia.

- (4) Assistant Professor (1990-1997): Department of Mathematics, Faculty of Science, Helwan University.
- (5) Associate Professor (1997-1998): Department of Mathematics, Faculty of Science, Helwan University.
- (6) Associate Professor (1998-2006): Department of Mathematics & Computing, Faculty of Education, Sultanate of Oman.
- (7) Associate Professor (2006-till now): Department of Mathematics, Faculty of Science, Helwan University.

**Courses Taught In Mathematics for Undergraduate and Postgraduate Students:**

- Mathematical Analysis 1 , 2.
- Analytical Geometry 1 , 2.
- Higher Algebra
- Linear Algebra
- Abstract Algebra
- Boolean Algebra
- Differential Equations (Ordinary and Partial)
- Complex Analysis
- Algebraic Topology ( Homology and Homotopy Theory )
- Algebraic logic (Theory of Functional Systems).
- Algebraic Automata Theory
- Classical and Many valued Logic
- Discrete Mathematics and Applications
- Graph theory

**Research Area and creative activities**

Many Valued Logic – Discrete Mathematics – Algebraic Automata Theory - Genetic Algorithm – Rough set theory.

Published several papers in international Journals and Conferences.

**Presentations, Conferences**

- 1<sup>st</sup> International conference in Algebra, Russia, (1989).
- 2<sup>nd</sup> International conference in Algebra, Russia, (1991).
- National Conference in Logic and applications, Russia, (1992).
- 3<sup>rd</sup> International conference in Algebra, Russia, (1993).
- 22<sup>nd</sup> International Conference for Mathematical Statistics and Computer Science, Cairo, Egypt (1997).
- 7<sup>th</sup> International conference on Computer Theory and applications, Cairo, Egypt (1997).

**Supervision of theses and dissertations**

Many M.Sc. and Ph.D. Theses.

### **Books Prepared**

- Lecture Notes in Discrete Mathematics
- Lecture Notes in Mathematical Analysis
- Lecture Notes in Algebra and Geometry
- Lecture Notes in Mathematical Logic

### **Memberships**

Member of Egyptian mathematical Society.

### **Other University activities**

- Reviewed several papers for local Journals
- Sharing in developing Mathematics courses in Faculty of Education, Sultanate of Oman.

## **LIST OF PUBLICATIONS**

- 1- M.H. Fahmy. " On iterated post algebra and algebra of automata mappings " Proc. of the 1-st Int. Conf. on Algebra in Honour of A.I. Malcev. P. 145-1989.
- 2- M.H. Fahmy. " On homomorphisms of algebra of sequential functions" Jour. Vestnek Belorussian Univ., Ser.I. No. 3, P. 5 8-6 1-1989.
- 3- M.H.Fahmy. " On invariance relations of algebra of automata mappings " Proc. of the 2-nd Int. Conf on algebra on memory of A.I. Shieshov. P. 33,34-1991.
- 4- M.H.Fahmy and V.V. Gorlov. " The Congruencies of algebra of bounded deterministic functions preserving the feedback operation " Conf. Belorussian Academy of Science. Part 4 P. 69-1992.
- 5- M.H. Fahmy. " On invariance and congruence relation on algebra of automata mappings" Jour. Vestnik Belorussian Univ., Ser.1. No. 3-1992.
- 6- M.H. Fahmy and V.V. Gorlov. " The homomorphisms of the algebra of sequential functions containing the feedback loop operation " Proc. of the 3-rd Int. Conf. on algebra on memory of M.E. Kargabолоv. P. 393-394-1993.
- 7- M.H. Fahmy and V.V. Gorlov. " On the homomorphisms of the algebra of sequential functions containing the feedback loop operation" Jour. Discussiones Mathematicae-ASM 15 P. 1-8-1995.
- 8- M.H. Fahmy and M.H. Wafy. " On the isomorphisms of the algebra of automata mappings over a set of quasi-periodic words" Bull. Fac.Sci., Alex.Univ. Vol. 3 6, No.1-1996.

- 9- M.H. Fahmy and M.H. Wafy. " On automata mappings over a set of quasi-periodic words preserving an invariance relation " Bull. Fac.Sci., Alex.Univ. Vol. 36, No. 1-1996.
- 10- M.H. Fahmy " On the reliability of hierarchical control systems " Bull. Fac.Sci., Alex.Univ.Vol. 36, No.1- 1996.
- 11- M.H. Faluny, V.V. Gorlov and S. Loshareva. " On complexity of functioning of C2-nets with central separation of connections " Jour. Vestnek Belorussian Univ., Ser.1-1997.
- 12- Iraky H. Khalifa, M.H. Fahmy and Hamdi A. Mahmoud " Locus Enforcement Using Allele Value" Proc.of the 22- nd Int. Conf. On Statistics and Computer Science.May -1997.
- 13- Iraky H. Khalifa, M.H. Fahmy and Hamdi A. Mahmoud " Partial Cloning in Genetic Algorithms", Proc.of the 7-th Int.Conf. On Computer Theory and Applications,Sep.1997.
- 14- Iraky H. Khalifa, M.H. Fahmy and Hamdi A. Mahmoud, " A Systematic Neural Network Design Using Genetic Algorithms ", Proc. Of the Int. Conf. On Artificial Intelligence, 1999.
- 15- Iraky H. Khalifa, M.H. Fahmy and Hany Elsalamony. " Shape Signature for Recognition Process " Proc.of the 17- th National Radio Science Conf. Feb.2000 .