

Faculty Logo

## Curriculum Vitae

**Name:** Aly Mohamed Aly Gaballa

**Title:** Lecturer

**Department:** Electrical Engineering

### Qualifications:

- Bachelor's Degree in Electrical Engineering
- Masters Degree in Electrical Engineering "Blind Beamforming and Signal Detection Using the Constant Modulus Algorithm (CMA)"
- Ph.D in Electrical Engineering "Secure Communication Systems Using Adaptive Antenna Arrays"

### Career Hierarchy:

- |                        |                 |
|------------------------|-----------------|
| - Teaching Assistant,  | Date: 1-7-1993  |
| - Assistant Lecturer,  | Date: 3-12-2000 |
| - Lecturer,            | Date: 1-1-2008  |
| - Associate Professor, | Date: ---       |
| -Professor             | Date: ---       |

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### **Scientific Activities**

#### **1: Membership of Professional Organizations and Scientific Societies**

- Digital communications Lab. Lab-Volt, Canada (Quebec)-, 2010
- Radar System-, Lab-Volt, Canada (Quebec)-, 2010

#### **Training Courses/workshops:**

- Quality standards in Teaching, FLDC, Alexandria University 2014
- Use technology in Teaching FLDC, Alexandria University 2014
- Decision making and Problem-Solving FLDC, Alexandria University 2014
- Research Team Management FLDC, Alexandria University 2014
- Communication skills in Education FLDC, Alexandria University 2014

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-Crisis & Disaster Management FLDC, Alexandria University 2014

**3: Conferences, Seminars and Workshops:**

**4: Teaching Scopes:**

**a. Air Defense College:**

- Digital Signal Processing (EE 466) ,
- Signals and Systems , (EE 361)
- Analog Communication theory, (EE 282)
- Digital Communications, (EE 348)
- Communication Systems, (EE 484)
- Optical Communications Systems(EE482),
- Electromagnetic Waves, (EE 362)
- Antenna Engineering, (EE 466)
- Microwave Devices , (EE 364)
- Electrical Circuit Analysis, (EE212)
- Electronic Circuit Analysis(EE234),
- Physics(EMP(031,032))

**b. The High Institute for Engineering & Technology (El-Beheira)**

- Mathematics 3, (BA11)
- Signal Processing , (CE 425)
- Data Acquisition System, (CE325)
- Neural Networks , (CE524(1))
- Robotic Engineering ,(CE 524)
- Data Security (CE 528)

**c. University of Sinai, Faculty of Engineering, Electrical Engineering Department:**

- Electronics (1) ENE 2204

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- Electronics (2) ENE 3106
- Measurements and instrumentation ENE 3209
- Microwave and Millimeter Wave Engineering and Design ENE EE13
- Optical Communication Systems ENE EE 10
- Radio navigation systems ENE5239
- Mechatronics (1) ENM 4145
- Mechatronics (2) ENM 5140
- Robotics ENM 5241
- Mechatronic Automation ENM EM01
- Senior project

**5: Scientific supervision:****6: Awards and Certificates of Appreciation:****7: Peer reviewing of scientific research/ Projects:****8: Other Activities:**

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### **Skills**

- Language Skills: Excellent**
- Computer Skills: Excellent**
- Presentation skills: Excellent**
- Other skills: ---**

### **Scientific Publications:**

**I: published Scientific Papers Extracted From the Masters and Ph.D Theses:**

1. Said E. El-Khamy, D. M. Abd-Elaziz and A. M. Gab-Alla," The MVDR Guided Constant Modulus Array (MVDR-GCMARY) for signal separation in fading channel," **URSI XXVIIth, General Assembly URSIGA'2002**, Masstricht, Holland, Agu. 2002
2. S. E. El - Khamy; H E. Rachwan and, A. M. Gab-Alla "Smart Multimodulus Arrays for high data rate wireless communication systems" **Proceedings of the Nineteenth National Radio Science Conference, NRSC 2004**, pp. 185 – 189, 16-18 March 2004
3. . E. El - Khamy; H E. Rachwan and A. M. Gab - Alla, "Smart MMA and GMMA Multi-Modulus Arrays for High Data Rate Channels Using QAM Signals with Dense Constellations" **IEEE International AP-S Symposium**, June 20-25, 2004
4. Said E. EL - Khamy, Hanna E. Rachwan and Ali M. Gab-alla " New Blind Beamforming and Moving Target Tracking Techniques Guided by the Matrix-Pencil/CDMA DOA Algorithm" "**Proceedings of the Twenty Second National Radio Science Conference (NRSC 2005)**, pp. 185 – 189, March 15-17, 2005 Cairo - Egypt
5. S. E. El - Khamy and A. M. Gab - Alla, "Smart MSINR-MMA Arrays for High Data Rate DS- CDMA Systems under Carrier Frequency Offset Conditions" **Proceedings of the 25th National Radio Science Conference, NRSC 2008**, pp. 185 – 189, 18-20 March 2008
6. S. E. El - Khamy and A. M. Gab - Alla, "Adaptive Arrays for MC-CDMA Using the MSINR Guided Multimodulus Algorithm" **Proceedings of the 25th National Radio Science Conference, NRSC 2008**, pp. 185 – 189, 18-20 March 2008
7. S. E. El - Khamy and A. M. Gab-Alla, "A New MSINR Guided Concurrent Multimodulus Adaptive Array (MSINR-GCMMARY) for Enhanced Performance of MC-CDMA Uplink" **Proceedings of the IEEE International AP-S Symposium**, July 5-12, 2008
8. S. E. El - Khamy and A. M. Gab-Alla, "A New Variable Step-Size Constant Modulus Array for Signal Separation in Fast Fading Channels" **Proceedings of the 26th National Radio Science Conference, NRSC 2009**

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## **II: Post-Doctoral Published Scientific Papers:**

1. Ahmed Khairy Aboul-Seoud, Ahmed Khairy Mahmoud, Alaa Hafez, and Ali Gaballa“  
Minimum variance variable Constrain DOA Algorithm” PIERS Proceedings, Guanbzhou,  
China, August 25-28,2014