



Mohamed Ahmed Hussein Ali

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Education:

- 2000-2003, (PhD) "Automatic Registration of Visible-band and SAR satellite and Aerial Images", System Design Engineering, University of Waterloo, Ontario, Canada.
- 1989-1991, (*MSc*), "A Pattern Recognition Model and its applications" Computer Department, Military Technical Collage, Cairo, Egypt.
- 1982-1987, (*BSc*), Electrical Engineering - Computer Department, Military Technical Collage, Cairo, Egypt.

PROFESSIONAL ACADEMIC EXPERIENCE

Conducted the following courses at:

- Elshorouk Academy.
- Arab Academy for Science Technology & Maritime Transport.
- Future University. (Faculty of Engineering and Faculty of Computers & Information Technology)
- Arab Open University (AOU)
- Military Technical Collage.
- Information Technology Institute.(ITI)

Taught Courses:

- Game Programming.
- Digital Image Processing.
- Algorithms and Data Structure.
- Computer Graphics.
- Artificial Intelligence (AI)
- Expert Systems
- Human Computer Interaction (HCI).
- Virtual Reality.
- Augmented Reality.
- Advanced Computer Graphics.
- Algorithms and Data structure.

- Numerical Methods.
- Computer Programming with JAVA.
- Object Oriented Programming with Java.
- Object Oriented Programming with C sharp.
- Programming Application with C++.
- Structure Programming.
- Computer Organization.
- Digital Logic.
- Data, Computing and information
- File Organization.
- Data structure and Algorithms.

Publications:

- **Mohammed A. Hussien** " A Region Growing controlled by Edge Map technique (RGCE) for Automatic Registration of Satellite Images” *Proceedings of Advances in Computer Science, Journal of the ACS* . Vol. 10 2019, Egypt.
- **Mohammed A. Hussien** "A Robust Satellite Imagery On-Board Security System" *Proceedings of Advances in Computer Science, Journal of the ACS* . Vol. 9 May 2018, Egypt.
- Bahaa E. Ramzi, **Mohammed A. Hussien**, and Ramadan Moawad "Virtual Reality Based Training Environment in a Cement Plant" *Proceedings of the 1st International conference on "New Paradigms in Electronics & Information Technologies"(PEIT 011)*. October 9-12, 2011, Alexandria, Egypt.
- Ali, Mohamed and Clausi D. “Feature extraction and enhancement of remote sensing images” IEEE, *Proceedings of Geomatics for Informed Decision*, GEOIDE, Fredericton, Canada.
- Ali, Mohamed and Clausi D. “Using the Canny edge detector for feature extraction and enhancement of remote sensing images” IEEE, *Proceedings of International Geoscience and Remote Sensing Symposium*, IGARSS, Sydney, Australia 2001.
- Ali, Mohamed and Clausi D. “ A Robust Automatic Registration Technique for Multi-Sensor Remote Sensing Images” *Proceedings of 3rd annual Geomatics for Informed Decision*, GEOIDE, Toronto, Canada 2002.
- Ali, Mohamed and Clausi D. “Automatic registration of multisensor remote sensing images” IEEE, *Proceedings of International Geoscience and Remote Sensing Symposium*, IGARSS, Toronto, Canada 2002.
- Ali, Mohamed. and Clausi D. “A new Automatic Registration Technique for Multi-sensor Remote Sensing Images” *Proceedings of 2nd annual UW Graduate Students Research Conference.2002*. Toronto, Canada.
- Ali, Mohamed and Clausi D. “Automatic Registration of Visible-Band and InSAR Aerial Remotely Sensed Images (ARVIS)” *the 3rd Annual UW Graduate Students Research Conference.2003*. Toronto, Canada.

- Ali, Mohamed Clausi D. and Jernigan Ed. "Improved Non Linear Speckle Reduction Filters For Synthetic Aperture Radar Images " *the 3rd Annual UW Graduate Students Research Conference.2003*. Toronto, Canada.
- Ali Mohamed and Kouta Mohamed. "An Adaptive Statistical recognition Model" *Proceedings of 2nd International conference on Artificial Intelligence Applications, AUC, Cairo, Egypt. Jan 22-24, 1994.*
- Ali Mohamed and Kouta Mohamed. "The Handwriter Identification problem" *Proceedings of 2nd International conference on Artificial Intelligence Applications, AUC, Cairo, Egypt. Jan 22-24, 1994.*
- Ali Mohamed and Kouta Mohamed. "A Computerized Interactive educational System for teaching Arabic Writing" *Proceedings of ORMA International conference MTC, Cairo, Egypt. Nov. 19-21, 1991.*

Researches:

For the last 25 years I was responsible as the main researcher and the field manager for the following research fields: (around 100 researches)

- Image processing (Fusion of satellite images of different sources).
- Air data protocols (Data and Video Transmission).
- Information Technology.
- Robotics.
- Computer Networking .
- Data and voice Encryption.
- INS and GPS Integration.
- GIS development.
- Design computer simulators.
- Design Mission Planning systems.
- Design Command and control systems.
- Mission data recording.