



# MOHAMMED ABDELFAHAT ALI AHMED

## ASSISTANT RESEARCHER

<p><b>PERSONAL INFORMATION</b></p>	<p>Full Name: Affiliations: Address: Mobile No.: E-mail:  Important links:</p>	<p>Mohammed AbdelFattah Ali Ahmed Assistant Researcher, Computer-Based Engineering Dept., IRI, SRTA-City IRI, SRTA-City, New Borg El-Arab, Alexandria, Egypt +20 1022584807 <a href="mailto:mabdelfatah@srtacity.sci.eg">mabdelfatah@srtacity.sci.eg</a> &amp; <a href="mailto:mohammed.abdulfattahali@gmail.com">mohammed.abdulfattahali@gmail.com</a>  <a href="#">@ Google Scholar</a>, <a href="#">@ORCID</a>, <a href="#">@Scopus</a>, <a href="#">@Researcher ID</a>, <a href="#">@Academia</a>, <a href="#">@ Research Gate</a>, <a href="#">@LinkedIn</a></p>
<p><b>EDUCATION</b></p>	<p><b>Ph.D. Preliminary, Computer Science</b>, Faculty of Science, Alexandria University, Egypt. CGPA: 3.925/4</p> <p><b>M.Sc., in Computer Science</b>, Faculty of Science, Zagazig University, Egypt. Dissertation: Computer Science Applications in Renewable Energy. Thesis: <u>Advisor</u> Prof. Mohamed ElSayed, <u>Period</u>: 2 Y, 7 M (<b>6 Publications</b>).</p> <p><b>B.Sc., in Math and Computer Science</b>, Faculty of Science, Zagazig University, Egypt. Final Grade: Very good with honors 80.77%, Third of class. Graduation Project: Webcams Security System.</p>	
<p><b>ACTIVITIES</b></p>	<p>As an <b>Assistant Researcher, 11/2016-Present</b>:</p> <ul style="list-style-type: none"> <li>▪ Conducting my PhD work.</li> <li>▪ Participating in various IRI's research projects.</li> <li>▪ Learned programing using MATLAB software (Development tools: MATLAB, on Windows).</li> <li>▪ Handled MATLAB and C#.Net integration, to serve some IRI's research projects.</li> <li>▪ Studied several advanced courses such as; Database, Advanced Database and Data Mining, Quantum Computing where CGPA was 3.925/4.</li> </ul> <p>As a <b>Research Assistant, 04/2013-11/2016</b>:</p> <ul style="list-style-type: none"> <li>▪ Developed and finished my M.Sc. Studies, where several publications have been accomplished, some of them in top ranked journals (IF: 8.4, Top 2% ISI Journals, 2017).</li> <li>▪ Participated in preparing IRI's Cloud Computing and HPC data center.</li> <li>▪ Assisted in installing different software (such as; ANSYS, COMSOL on Windows, Linux, HPC).</li> <li>▪ Conducted a literature review in different types of the solar technologies.</li> <li>▪ Conducted individual research and participated in team research projects.</li> <li>▪ Designed and implemented a new software to provide various weather information (C#, Windows).</li> <li>▪ Participated in several research projects.</li> </ul>	

	<p><b>“ICNTSE” Conference”, 10-03/10/2016</b>, Pharos University, Alexandria, Egypt.</p> <ul style="list-style-type: none"> <li>▪ Attended and presented paper in "Assessment the Performance of Artificial Neural Networks in Estimating Global Solar Radiation".</li> </ul> <p><b>“MARLOG6” Conference, 19-21/03/2017</b>, Hilton, Green Plaza Hotel, Alexandria, Egypt.</p> <ul style="list-style-type: none"> <li>▪ Attended and participated with a research paper "Solar Energy Availability in Suez Canal’s Zone - Case study: Port Said and Suez cities, Egypt".</li> </ul> <p><b>Attended “CHAN-REDS” School on Cloud Computing, 13-18/04/2015</b>, INFN Catania- Italy.</p> <p><b>“SRTA-City Training Programs”, 2018-Present</b>, SRTA-City Campus, Alexandria, Egypt.</p> <ul style="list-style-type: none"> <li>▪ Organizer (as a team member) SRTA-City’s training programs (Summer &amp; Winter Schools).</li> </ul> <p><b>“Winter School,”29/01-09/02/2017</b>, Informatics Research Institute, SRTA-City, Alexandria, Egypt.</p> <ul style="list-style-type: none"> <li>▪ Participated at “IRI Winter Schools” in preparation and organization.</li> </ul> <p><b>“Author Workshop”, 13/10/2013</b>, Alexandria Bibliotheca, Alexandria, Egypt.</p> <ul style="list-style-type: none"> <li>▪ Attended the workshop which provided by "Elsevier Publishing Campus".</li> </ul> <p><b>“IRI Cloud Workshop”, 12/10/2015</b>, Four Season Hotel, San Stefano, Alexandria, Egypt.</p> <ul style="list-style-type: none"> <li>▪ Assessed in organizing and preparing for the workshop (among a team).</li> </ul> <p><b>Developed a software called as "Weather Station Management”, 2015-2016:</b></p> <ul style="list-style-type: none"> <li>▪ Description: A desktop application that can be employed for analyzing weather data and supporting essential information for designing energy systems (C#, Developer Express).</li> <li>▪ Responsibility: Analyzed, designed and developed the whole application.</li> </ul> <p><b>“Data Analysis and Modeling using CoStat Software”, Workshop, 1/12/2014</b>, SRTA-City, Egypt.</p> <ul style="list-style-type: none"> <li>▪ Attended the workshop.</li> </ul> <p><b>Trainer, 08-09/2013</b>, IRI, SRTA-City, Egypt.</p> <ul style="list-style-type: none"> <li>▪ Developed and delivered short courses in C#.NET, ADO.Net and SQL Server.</li> </ul> <hr/> <p><b>Participating in all IRI and SRTA-City Administrative Activities, such as:</b></p> <ul style="list-style-type: none"> <li>▪ Participated in IRI's Reconstruction Committee under the supervision of Prof. Mohamed AbdelRahman; to reorganize IRI's departments and researching interests according to the available researchers.</li> <li>▪ Participated in SRTACity Committee of installing internal communication station; to connect SRTACity security department with others departments, as well as connecting SRTACity sites (SRTACity Campus, Hassan Allam Building, and SRTACity Farm).</li> <li>▪ Participated in SRTACity Committee of developing a software application for handling the whole life cycle of various SRTACity Labs to be more efficient.</li> </ul> <hr/> <p><b>Extra-curriculum Activities:</b></p> <ul style="list-style-type: none"> <li>▪ Advising two teams of STEM's students one of them develop a project which helps and presents various services for formers.</li> <li>▪ While the other team develops a mobile application to assist communications among students themselves, as well as students and their teachers.</li> </ul>
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<p style="text-align: center;"><b>GRANTS &amp; AWARDS</b></p>	<p><b>Distinctive Publishing Award, 10/2017</b>, granted by Faculty of Science, Zagazig University, Egypt.</p> <p><b>Distinctive Publishing Award, 09/2016, (Top 50 % ISI Journals)</b>, granted by SRТА-City, Egypt.</p> <p><b>Distinctive Publishing Award, 07/2016, (Top 5 % ISI Journals, #4/135)</b>, by SRТА-City, Egypt.</p> <p><b>M.Sc. Tuition Fee, 02/2014-09/2016</b>, granted by SRТА-City, Egypt.</p> <p><b>Academic Distinctive Award, 7/2008</b>, granted by Faculty of Science, Zagazig University, Egypt.</p> <p><b>Fellowship, 09/2005-05/2008</b>, granted by Faculty of Science, Zagazig University, Egypt.</p>
<p style="text-align: center;"><b>LIST OF PUBLICATIONS</b></p>	<p><u><a href="#">Refereed Journal Articles</a></u></p> <p>Gasser E. Hassan, <u>Mohamed A. Ali</u>, “<u>Performance Evaluation of Artificial Neural Networks in Estimating Global Solar Radiation. Case Study: New Borg El- Arab City, Egypt</u>”, International Journal Of Environmental Science &amp; Sustainable Development, Vol 1, No 2 (2017), Pages: 1-8.</p> <p>My Contribution:</p> <ul style="list-style-type: none"> <li>• Developed the idea, research plan and planned for it.</li> <li>• Carried out practical work and recorded results.</li> <li>• Prepared and processed the required data to conduct the research. Conducted the literature review used.</li> <li>• I wrote the paper and the manuscript was revised by the co-authors. Handled journal’s comments.</li> </ul> <p>Gasser E. Hassan, M. Elsayed Youssef, <u>Mohamed A. Ali</u>, Zahraa E. Mohamed, “<u>Evaluation of Different Sunshine-Based Models for Predicting Global Solar Radiation – Case Study: New Borg El-Arab City, Egypt</u>”, Thermal Science, (2017), Pages: 1-12.</p> <p>My Contribution:      <i>Notice: This journal is indexed in <b>Scopus</b> and <b>ISI</b> journals and its <u>impact factor is 1.541</u>.</i></p> <ul style="list-style-type: none"> <li>• Prepared and processed the required data for conducting the research. Conducted the literature review.</li> <li>• I wrote the paper and it was revised by the co-authors. Handled journal’s comments.</li> <li>• Carried out practical work and recorded results.</li> </ul> <p>Gasser E. Hassan, M. Elsayed Youssef, <u>Mohamed A. Ali</u>, Zahraa E. Mohamed, Ali I. Shehata, “<u>Performance Assessment of Different Day-of-the-Year-based Models for Estimating Global Solar Radiation - Case Study: Egypt</u>”, Journal of Atmospheric and Solar-Terrestrial Physics, 149 (2016), Pages: 69-80.</p> <p>My Contribution:      <i>Notice: This journal is indexed in <b>Scopus</b> and <b>ISI</b> journals and its <u>impact factor is 1.79</u>.</i></p> <ul style="list-style-type: none"> <li>• Developed the idea, research plan and planned for it.</li> <li>• Carried out practical work and recorded results.</li> <li>• Prepared and processed the required data for conducting the research. Conducted the literature review.</li> <li>• I wrote the paper and the manuscript was revised by the co-authors. Handled journal’s comments.</li> </ul> <p>Gasser E. Hassan, M. Elsayed Youssef, Zahraa E. Mohamed, <u>Mohamed A. Ali</u>, Ahmed A. Hanafy, “<u>New Temperature-based Models for Predicting Global Solar Radiation</u>”, Applied Energy, 179 (2016), Pages:437-450.</p> <p>My Contribution:      <i>Notice: This journal is indexed in <b>Scopus</b> and <b>ISI</b>, its <u>impact factor is 8.426 (Top2% ISI 2017)</u>.</i></p> <ul style="list-style-type: none"> <li>• Developed the idea, research plan and planned for it.</li> <li>• Carried out practical work and recorded results.</li> <li>• Prepared and processed the required data for conducting the research. Conducted the literature review.</li> <li>• I wrote the paper and the manuscript was revised by the co-authors. Handled journal’s comments.</li> </ul>

M. Elsayed Youssef, Gasser E. Hassan, Zahraa E. Mohamed, Mohamed A. Ali, “[Investigating the performance of different models in estimating global solar radiation](#)”, Advanced in Natural and Applied Science, 10 (2016), Pages: 379-389.

My Contribution:

*Notice: This journal was previously covered in **Scopus**”.*

- Developed the idea, research plan and planned for it.
- Prepared and processed the required data for conducting the research. Conducted the literature review.
- Carried out practical work and recorded results.
- I wrote the paper and the manuscript was revised by the co-authors. Handled journal’s comments.

### [Refereed Conference Articles](#)

Gasser E. Hassan, Mohamed A. Ali, M. Elsayed Youssef, “[Solar Energy Availability in Suez Canal’s Zone - Case study: Port Said and Suez cities, Egypt](#)”, The International Maritime Transport & Logistics Conference (MARLOG 6), Alexandria, Egypt, (2017), Pages: 1-12.

My Contribution:

- Developed the idea, research plan and planned for it.
- Prepared and processed the required data for conducting the research. Conducted the literature review.
- Carried out practical work and recorded results.
- I wrote the paper and it was revised by the co-authors. Handled conference’s comments

Mohamed A. Ali, Gasser E. Hassan, M. Elsayed Youssef, “[Assessment the Performance of Artificial Neural Networks in Estimating Global Solar Radiation](#)”, International Conference On New Trends For Sustainable Energy – ICNTSE 2016, Alexandria, Egypt, (ISSN: 2357-0865, paper Code: 02A4), Pages: 148-150.

My Contribution:

- Developed the idea, research plan and planned for it.
- Prepared and processed the required data for conducting the research. Conducted the literature review.
- Carried out practical work and recorded results.
- I wrote the paper and it was revised by the co-authors. Handled conference’s comments.

### [Under Review Articles](#)

Mohamed A. Ali, Gasser E. Hassan, “Assessment the Applicability of Meteorological-Based Solar Model in Predicting Global Solar Radiation”.

Mohamed A. Ali, Gasser E. Hassan, “Comparison of Artificial Neural Networks Models and Empirical Models for evaluating the monthly average daily global solar radiation”.

Mohamed A. Ali, Gasser E. Hassan, “Performance Comparison of Day-of the Year-Based Models and Meteorological-Based Models to Compute Average Daily Global Solar Radiation”.

### [Thesis](#)

Mohamed A. Ali, Gasser E. Hassan, “[Computer Science Applications in Renewable Energy](#)”, Master’s Thesis Zagazig University, Sept 2016.