



## Curriculum Vitae

# El-Sayed Abel-Rahman El-Dahshan



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**Date of Birth:** 19/10/1962, **Nationality:** Egyptian, **Languages:** Arabic, English.

### *Education*

**2012**

**Full Professor "Scientific Computing";**  
**Supreme Council of Universities-Egypt**  
**اللجنة العلمية الدائمة للحاسبات والمعلومات رقم 47**  
**الدورة العاشرة 2008 - 2011**

**2022**

**Full Professor "Computational Physics".**  
**Supreme Council of Universities-Egypt**  
**اللجنة العلمية الدائمة للفيزياء (43)**  
**الدورة الثالثة عشر 2019 - 2022**

1994-1996 (in Germany).

**Ph.D. in Structure of thin film** – Ain Shams University  
Cairo, Egypt (Cooperation system between **Egypt "Ain Shams University - Faculty of Science"** and **Germany "Claustahl-Zeller Field Teschneche Universtate"**).

1996-1998 (in Egypt).

1988-1991

**M.Sc. in Microwaves (Electronics)**

1987 – 1988

**Faculty of Science**  
Ain Shams University  
Cairo, Egypt.

**Post graduate Diploma in electronics** October 1988 with grade "Excellent" Electronics College, Cairo Egypt

1982-1986

**B.Sc. in Physics & Computer Science**

**Faculty of Science**  
Ain Shams University  
Cairo, Egypt.



### Theses

Ph.D., 1998	“Annealing of Copper-Indium- Selenium Compound Semiconductors under Controlled Vapour Pressure of The Volatile Components.”
M.Sc., 1991	“Studies on Dielectric Loaded Waveguides and Their Applications.”

### Work Experience

2022	<b>Full Professor “Computational Physics”</b> Department of Physics, Faculty of Science Ain Shams University Cairo, Egypt.
2012-2022	<b>Full Professor “Scientific Computing”</b> E-learning University (EELU) 33 El-messaha St. El-Doki Giza, Egypt
2011	<b>Associate Professor</b> Computational Physics Department of Physics Ain Shams University Cairo, Egypt
2010- 2020	Manager for the Studying Centre of Cairo Egyptian E-learning University (EELU) 33 El-messaha St. El-Doki Giza, Egypt
2004-2006	<b>Expert</b> in the Science Education Centre Ain Shams University Cairo, Egypt
1998-2009	Assistant Professor Department of Physics Ain Shams University Cairo, Egypt
1998- 2004	Part time consultant with UNESCO Cairo office under the project “Visualization Techniques in Teaching the Physics on PC’s”
1996-1997	Assistant Lecturer Department of Physics Ain Shams University Cairo, Egypt
1994-1996	In Germany to do the experimental work and to collect the material required to the PhD work



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1991-1993	Assistant Lecturer Department of Physics Ain Shams University Cairo, Egypt
1986-1991	Graduate Teaching Assistant Department of Physics Ain Shams University Cairo, Egypt

### ***The current Research Interests***

- 1- Digital Signal processing (Medical signals ECG & EEG & PCG, PPG Signals) Based on Machine Learning techniques (Deep learning, neural network, Wavelets Theory, Time-Frequency analysis algorithms, Computational Evolutionary, and Fuzzy Logic “by using MATLAB and Python programming”).
- 2- Application of computational intelligent techniques in high energy physics “particles physics”.
- 3- Digital Image Processing (Medical imaging) based on Pulse Coupled Neural network (PCNN), Wavelets Theory, Computational Evolutionary Theory (GA & GP), Fuzzy Logic, (by using MATLAB programming).
- 4- Using the machine learning and deep learning techniques to analyze the high energy physics data.
- 5- Implementation of Digital signal and image processing real time systems on the FPGA Chips- "Field Programmable Gate Array".

### ***Key Skills***

I have developed the following skills during my academic and professional experience:

- Developing programming using, Visual Basic, C, Python, MATLAB, and Java.
- Teaching to both undergraduate and postgraduate students.
- Developing teaching material of a number of modules.
- Supervision of Honors, **M.Sc. and Ph.D.** dissertations
- Setting and marking examination papers
- Mentoring students

### ***Teaching Experiences***

- 1- Teaching all levels of ***Experimental Physics***, Ain Shams University, Cairo, Egypt, 1986 – 1998.
- 2- Teaching ***Undergraduate Experimental Electric Circuits, Digital Electronics Circuits & Logic Design***, Ain Shams University, Cairo, Egypt, 1986 - 1998



- 3- Teaching *Undergraduate Courses* in “**Electronic Circuits**”, Ain Shams University, Cairo, Egypt, 1998 -2009
- 4- Teaching *Undergraduate Course* in “**Digital Electronics & Logic Design**”, Ain Shams University, Cairo, Egypt, 1998-present
- 5- Teaching *Undergraduate Course* in “**Properties of Matter and Heat**”, Ain Shams University, Cairo, Egypt, 1998-1999
- 6- Teaching *Undergraduate Course* in “**Introduction to Computer Science**”, Ain Shams University, Cairo, Egypt, 1999-2002
- 7- Teaching *Undergraduate Course* in “**Microprocessors and computer organization**“, Ain Shams University, Cairo, Egypt, 1999- 2005.
- 8- Teaching *Postgraduate (M.Sc.) Course* in “**Digital Integrated systems**”, Ain Shams University, Cairo, Egypt, 1999-2004
- 9- Teaching *Undergraduate Course* in “**Digital Electronics Circuits & Logic Design**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2000-2010.
- 10- Teaching *Undergraduate Course* in “**Electric Circuits**”, Ain Shams University, Cairo, Egypt, 2003-2010
- 11- Teaching *Undergraduate Course* in “**Introduction to Computer Science**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2003-2005.
- 12- Teaching *Undergraduate Course* in “**Digital Signal Processing**”, Ain Shams University, Cairo, Egypt, 2003-2010.
- 13- Teaching *Undergraduate Course* in “**Signals and Systems**”, Ain Shams University, Cairo, Egypt, 2003-2010.
- 14- Teaching *Postgraduate (M.Sc.) Course* in “**Digital Image Processing**“, Ain Shams University, Cairo, Egypt, 2005-2010.
- 15- Teaching *Undergraduate Course* in “**Pattern Recognition**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2006- 2010.
- 16- Teaching *Undergraduate Course* in “**Computer Organization & Architecture**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2006-2008.
- 17- Teaching *Undergraduate Course* in “**Artificial Intelligence**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2007- 2010.
- 18- Teaching *Undergraduate Course* in “**Digital Signal Processing and Multimedia**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2007- 2010.
- 19- Teaching *Undergraduate Course* in “**Logic Design with VHDL**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2006- 2010.
- 20- Teaching *Undergraduate Course* in “**Digital Systems Design Using FPGA and VHDL**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2007- 2010.



- 21- Teaching Undergraduate Course in “**Expert Systems and decision support systems**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2007- 2010.
- 22- Teaching Undergraduate Course in “**Artificial Neural Networks**”, Misr University for Science & Technology, 6<sup>th</sup> October City-Cairo, Egypt, 2007- 2010.
- 23- Teaching Undergraduate Courses in “**Electronics**”, Ain Shams University, Faculty of computer and information science, Cairo, Egypt, 2008 –2010.
- 24- Teaching Undergraduate Course in “**Artificial Intelligence**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.
- 25- Teaching Undergraduate Course in “**Electronics levels 1&2**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.
- 26- Teaching Undergraduate Course in “**Discrete Mathematics**”, Egyptian E\_learning University-Cairo, Egypt, 2010-2011.
- 27- Teaching Undergraduate Course in “**Computer Organization 1**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.
- 28- Teaching Undergraduate Course in “**Physics 1 and Physics 2**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.
- 29- Teaching Undergraduate Course in “**Computer Organization II**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.
- 30- Teaching Undergraduate Course in “**Computer Organization & Architecture**”, Arab Open University El-Shrook City-Cairo, Egypt, 2010 - **2016**.
- 31- Teaching Undergraduate Course in “**Artificial Neural Networks and deep learning**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.
- 32- Teaching Undergraduate Course in “**Artificial Intelligence**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.
- 33- Teaching Undergraduate Course in “**Discrete Mathematics**”, Egyptian E\_learning University-Cairo, Egypt, 2010- 2012.
- 34- Teaching Undergraduate Course in “**Electronics**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.
- 35- Teaching Undergraduate Course in “**Physics (2) “Modern Physics”**”, Egyptian E\_learning University-Cairo, Egypt, 2010- **present**.

### **Workshops, Schools and Conferences**

- 1- Participated in workshop “ USING THE INTERNET FOR TEACHING AND LEARNING IN THE SCIENTIFIC AND ENGINEERING ENVIROMENT” 6-10 December 1999, Faculty of Engineering, Cairo University, Cairo, Egypt – **Organized by UNESCO Cairo Office, Oxford University Computing Services, and Faculty of Engineering- Cairo University**



- 2- Participated in Summer-College on “*THE 1999 NETWORKS FOR USE IN THE MATH AND PHYSICAL SCIENCE (NUMAPS)*”, In “*International Institute of Theoretical and Applied Physics*” Ames, Iowa, USA, June 12-August 7 1999
- 3- Participated in workshop “BASIC WEB TECHNOLOGY SKILLS FOR COURSEWARE DEVELOPMENT” 1-5 April 2000, Faculty of Engineering, Cairo University, Cairo, Egypt, *Organized by UNESCO Cairo office and Faculty of Engineering- Cairo University.*
- 4- Contribution in the workshop on “*the university physics consortium project – (the second meeting)*” University of Ismailia, Egypt, 30 April – 3 May, 1999- *Organized by UNESCO Cairo Office*
- 5- Contribution in the workshop on “*Photovoltaic Energy- Cell & Systems*” Alexandria University-Institute of Graduate Studies & Research, Egypt, 20-24 April, 2002.
- 6- Attend in the ICGST International Conference on “*Graphics, Vision and Image Processing (GVIP-05)*”, 19-21 December 2005, (CICC), Cairo, Egypt.
- 7- Participated in workshop “ICTP-INFN Advanced Training Course on FPGA Design and VHDL for Hardware Simulation and Synthesis” 27 November – 22 December 2006, **ICTP, TRIESTE, ITALY.**
- 8- Attend in the ICENCO'2006 2nd International Computer Engineering Conference on "Engineering the Information Society", December 26-28, 2006, Faculty of Engineering, Cairo University- Cairo, EGYPT.
- 9- Attend in the 6<sup>th</sup> Nuclear and Particle Physics Conference", Nov. 17-21, 2007, Luxr, EGYPT.
- 10- The 5th International Workshop on Rough Sets and Hybrid Intelligent Systems; Cairo, Egypt, March 29, 2008. In cooperation with Faculty of Computer and Information, Cairo University - Faculty of Computers and Information, The University of Menoufia.
- 11- Fourth International Conference on Intelligent Computing and Information Systems ICICIS 2009 Mar 19-22, 2009; Ain Shams University, Faculty of computer and information science, Cairo, Egypt.
- 12- The 8th International Conference on Informatics and Systems (INFOS 2012); Cairo University, 14-16 May 2012, Cairo, Egypt.
- 13- Sixth International Conference on Intelligent Computing and Information Systems ICICIS, May 4 2013; Ain Shams University, Faculty of computer and information science, Cairo, Egypt.
- 14- Seventh International Conference on Intelligent Computing and Information Systems ICICIS 2015 December 12-14, 2015; Ain Shams University, Faculty of computer and information science, Cairo, Egypt. 2015.
- 15- EELU International Conference on E-Learning Conference 9th to 11th July 2012 Cairo, Egypt
- 16- EELU International Conference on E-Learning 2014, Conference 24th to 26th June 2014 Cairo, Egypt.
- 17- Third conference in e-learning (EELU ICEL 2016) 12-14 April 2016 Cairo, Egypt.



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- 18- the 2nd International Conference on Knowledge Engineering and Big Data Analytics (KE&BDA) BDA 2017), 12-15 December, 2017,
  - 19- Eighth International Conference on Intelligent Computing and Information Systems (ICICIS) (ICICIS 2017) 5-7 December, 2017, Cairo, Egypt.
  - 20- Erasmus+ Programme - the University Fundraising Workshop, 23rd, 24th October 2017- Faculty of Engineering - Cairo University.
  - 21- EELU International Conference on E-Learning in Cairo University during 26-28 June 2018. Cairo, Egypt.

### **Activities**

- 1- "Using Help Authoring Tool to Display Physics Courses on PC's 1999-2003"
- 2- "Using Java and Javascript Languages to Display Interactive Physics Courses 1999-2003"
- 3- Supervisor for the senior graduate projects, digital signal processing, digital image processing, pattern recognition, digital electronics, and FPGA.
- 4- Supervisor for the MSc Students, Computer-aided Diagnosis system Bioinformatics DNA sequence analysis, pattern recognition, Real-time system implementation on FPGA.
- 5- Participate on the TEMPUS Project for the virtual physics e-LAB "Project Number 517102-TEMPUS-1-2011-1-SE-TEMPUS-JPCR(20111-2527/001-001).
- 6- Erasmus+ Programme - the University Fundraising Workshop, 23rd, 24th October 2017- Faculty of Engineering - Cairo University.

### **eBooks**

- 1- A multimedia book "*Simphy*": Visualization of Introductory Physics on Computer A. H. Moussa, Ali El-Naem, Hassan F. El-Nashar, El-Sayed A. El-Dahshan.-2000.
- 2- A multimedia book "*Data mining*": For teaching the Data mining Course in **Egyptian E-learning University**; El-Sayed A. El-Dahshan - 2013.

### **Book Chapters**

- 1- **El-Sayed El-Dahshan**, Aboul ella Hassanien, Amr Radi, Soumya Banerjee, Ultrasound Biomicroscopy Glaucoma Images Analysis Based on Rough Set and Pulse Coupled Neural Network, in **Approximate Reasoning** by Series "**Foundations of Computational Intelligence**" **Volume 2**, published by Springer Verlag 2009, pp.275-293.
- 2- Soumya Banerjee; Hameed Al-Qaheri; **El-Sayed A. El-Dahshan**, Aboul Ella Hassanien; Rough Set Approach in Ultrasound Biomicroscopy Glaucoma; Analysis Advances in Computer Science and Information Technology; **Volume 6059 of the series Lecture Notes in Computer Science** pp 491-498.
- 3- Book Title: Innovative Smart Healthcare and Bio-Medical Systems Chapter Title: Artificial Intelligence-Empowered Mobile Healthcare Author(s): S. Lenty Stewart, El-Sayed A. El-Dahshan Publisher: CRC Press December 2020.



- 4- Book Title: Innovative Smart Healthcare and Bio-Medical Systems Chapter Title: Intelligent Algorithms for the Diagnosis of Alzheimer's Disease, By Sarah A. Soliman, Rania R. Hussein, El-Sayed A. El-Dahshan, Abdel-Badeeh M. Salem, Publisher: CRC Press December 2020

### **Publications (about 90 publications)**

- 1- El-Sharkawy, M. A., Hosny, A. N., Abdel-Hakeem, A., & **El-Sayed A. El-Dahshan**. (1994). Studies on dielectric loaded wave guides and their applications at microwave frequencies. **MODELLING MEASUREMENT AND CONTROL A GENERAL PHYSICS ELECTRONICS AND ELECTRICAL ENGINEERING**, 54, p.37-37.
- 2- **El-Sayed A. El-Dahshan**, Mahmoud Youssef and Abdel-Rahman Salem, "Refractive-index Dispersion Analysis of CuInSe<sub>2</sub> Grown by Selenization of Co-sputtered Cu-In Precursors", **Balkan Physics Letters BPL**, 12 (2) (2004) p. 63 - 74.
- 3- A. Radi, E. **El-Sayed A. El-Dahshan**, and A.Hassanien; PCNN for Automatic Boundary Detection of the Prostate Ultrasound Images, **ICENCO'2006 2nd International Computer Engineering Conference Engineering the Information Society Faculty of Engineering, Cairo University Cairo, EGYPT December 26-28, 2006**, pp. RS1-RS8.
- 4- **El-Sayed A. El-Dahshan**, Amr Radi, Aboul Ella Hassanien, and Kai Xiao, "Accurate Detection of Prostate Boundary in Ultrasound Images using Biologically-inspired Spiking Neural Network", **Proceedings (IEEE Xplore) of 2007 International Symposium on Intelligent Signal Processing and Communication Systems**, Nov.28-Dec.1, 308- 311, 2007 Xiamen, China.
- 5- **EL-Sayed El-Dahshan**, Amr Radi and Mahmoud Y. El-Bakry, "Artificial Neural Network and Genetic Algorithm Hybrid Technique for Nucleus- Nucleus Collisions", **International Journal of Modern Physics C**, 19 (12) (2008) p. 1787-1795.
- 6- Fouad El-Diasty and **El-Sayed A. El-Dahshan**, "Power attenuation coefficient and intermodal beat length in perturbed optical fibers: the role of cladding", **Journal of Optics A: Pure and Applied Optics**, 10 (8) (2008) p. 85306-85310.
- 7- **EL-Sayed El-Dahshan**, Amr Radi and Mahmoud Y. El-Bakry, "Genetic Programming Modeling for Nucleus- Nucleus Collisions", **International Journal of Modern Physics C**, 20 (11) (2009) p. 1817-1825.
- 8- **EL-Sayed El-Dahshan**, "Application of Support Vector Regression for the Modeling of K-P Interactions", **Egyptian journal of physics**, 40(2) (2009) p.145-157.



- 9- **El-Sayed A. El-Dahshan**, Amr Radi, Mahmoud Y. El-Bakry, and Mohammed El-Mashad, "Artificial Neural Network Modeling In Heavy Ion Collisions", **International Journal of Pure and Applied Physics**, 5(1) (2009) p. 1–14.
- 10- **El-Sayed A. El-Dahshan**, Abdel-Badeeh Salem, and Tamer H. Younis, "A hybrid technique for automatic MRI brain images classification", **INFORMATICA**, Vol. LIV, No. 1 (2009) p. 55-67.
- 11- **El-Sayed A. El-Dahshan**, Aboul ella Hassanien, Amr Radi, Soumya Banerjee, "Ultrasound Biomicroscopy Glaucoma Images Analysis Based on Rough Set and Pulse Coupled Neural Network", **in Approximate Reasoning by Series "Foundations of Computational Intelligence"** Volume 2, published by Springer, Verlag 2009, pp.275-293. **Book chapter.**
- 12- Salem, Abdel-Badeeh M., Kenneth Revett, and **El-Sayed A. El-Dahshan** "Machine learning in electrocardiogram diagnosis." In Computer Science and Information Technology, 2009. **IMCSIT'09**. International Multiconference on, pp. 429-433. IEEE, 2009- **Mragowo, Poland.**
- 13- Kenneth Revett, Florin Gorunescu, **El-Sayed El-Dahshan**, and Abdel-Badeeh Salem, A Machine Learning Approach to Artefact Extraction from Independent Components Derived from EEG Datasets, **Forth International Conference on Intelligent Computing and Information Systems**; March 19-22, 2009, Cairo, Egypt, pp 184-188.
- 14- Kenneth Revett, Florin Gorunescu, Abdel-Badeeh Salem, and **El-Sayed A. El-Dahshan**; Evaluation of the Feature Space of an Erythematosquamous Dataset Using Rough Sets; **Annals of University of Craiova, Math. Comp. Sci. Ser.** 36(2) (2009), P. 123.
- 15- Kenneth Revett, Florin Gorunescu, Abdel-Badeeh Salem and **El-Sayed A. El-Dahshan**; Evaluation of the Feature Space of an Erythematosquamous Dataset Using Rough Sets, **The 9th International Conference** on ARTIFICIAL INTELLIGENCE and DIGITAL COMMUNICATIONS AIDC 2009 September 11-13, 2009, **Craiova, ROMANIA.**
- 16- Soumya Banerjee, Hameed Al-Qaheri, **El-Sayed A. El-Dahshan**, and Aboul Ella Hassanien; Rough Set Approach in Ultrasound Biomicroscopy Glaucoma Analysis; T.H. Kim and H. Adeli (Eds.): **Lecture Notes in Computer Science, - LNCS** -2010, Volume 6059, Advances in Computer Science and Information Technology, Pages 491-498 Springer-Verlag Berlin Heidelberg 2010.



- 17- Salah Yaseen El-Bakry, **El-Sayed A. El-Dahshan**, Saud A. Al-Awfi and Mahmoud Y. El-Bakry; Gene expression programming approach to laser-guided atoms; **IL NUOVO CIMENTO** Vol. 125 B, No. 10 (2010) p. 1143-1151.
- 18- **El-Sayed A. El-Dahshan**, Tamer Hosny, Abdel-Badeeh M. Salem; Hybrid intelligent techniques for MRI brain images classification; **Digital Signal Processing** 20 (2010) p. 433–441.
- 19- Aboul Ella Hassanien, Hameed Al-Qaheri, **El-Sayed A. El-Dahshan**; Prostate boundary detection in ultrasound images using biologically-inspired spiking neural network; **Applied Soft Computing** 11 (2011) p. 2035–2041.
- 20- **EL-Sayed A. El-Dahshan**; Application of genetic programming for proton-proton Interactions; **Central European Journal of Physics (Open Physics)** 9(3) (2011) p. 874-883.
- 21- **EL-Sayed A. El-Dahshan**; Modeling of heavy ion collisions using radial basis function and generalized regression neural networks; **Canadian Journal of Physics**, 89 (10) (2011) p. 874-883.
- 22- Salah Yaseen El-Bakry, **El-Sayed A. El-Dahshan** and Mahmoud Y. El-Bakry; Total cross section prediction of the collisions of positrons and electrons with alkali atoms using gradient tree boosting; **Indian Journal of Physics**, 85 (9) (2011) p. 401-409.
- 23- **El-Sayed A. El-Dahshan**; Genetic algorithm and wavelet hybrid scheme for ECG signal denoising; **Telecommunication Systems** 46 (2011) p. 209–215.
- 24- Salah Yaseen El-Bakry, Khadija Ali, **El-Sayed A. El-Dahshan** and Mahasen A. Mahsoop; Positronium formation during inelastic scattering of positrons by excited lithium atoms; **Arab Journal of Nuclear Sciences and Applications**, 45(4) (2012) p. 79-91.
- 25- Moussa, Moaaz A., Mahmoud Y. El-Bakry, A. Radi, **El-Sayed A. El-Dahshan**, and M. Tantawy. "Artificial Neural Network Modeling in Hadrons Collisions." **International Journal of Scientific and Engineering Research**, 3(8) (2012) p.1-4.
- 26- El-Bakry, M. Y., Moussa, M. A., Radi, A., **El-Sayed A. El-Dahshan** & Tantawy, M. Genetic Programming Model for Hadronic Collisions. **International Journal of Scientific and Engineering Research**, 3(8) (2012) P. 1-4.



- 27- Moussa, M. A., El-Bakry, M. Y., Radi, A., **El-Sayed A. El-Dahshan**, Habashy, D. M., & Abbas, E. G., Topological Cross Sections and Multiplicity Distributions for  $n(p)$  and  $np$ -Interactions at High Energies, **International Journal of Scientific & Engineering Research**, 3(10) (2012) p.1-7.
- 28- Mahmoud Y. El-Bakry, **El-Sayed A. El-Dahshan**, Amr Radi, Mohamed Tantawy, Moaaz A. Moussa, P(-P) nucleus Interactions at 200 GeV/c via Neural Network Technique, **International Journal of Scientific & Engineering Research**, 4 (5) (2013) p. 1-6.
- 29- Salah Y. El-Bakry, **El-Sayed A. El-Dahshan**, and Khadija Ali. "Positron-Excited Lithium Atom Collisions." **Journal of Modern Physics**, 4(06) (2013) p. 766-771.
- 30- Mahmoudi Y. El-Bakry, **El-Sayed A. El-Dahshan**, Enas Abd El-Hamied Farouk; Charged Particle Pseudorapidity Distributions for Pb-Pb and Au-Au Collisions Using Neural Network Model, **Ukrainian Journal of Physics**., 58 (8) (2013) p.709-718.
- 31- Mahmoud Y. El-Bakry, **El-Sayed A. El-Dahshan**, Amr Radi, Mohamed Tantawy, Moaaz A. Moussa, A Genetic programming for modeling Hadron-nucleus Interactions at 200 GeV/c., **International Journal of Scientific and Engineering Research**, 4.7 (2013) p. 7-12.
- 32- Rady, Engy R., Ashraf H. Yahia, **El-Sayed A. El-Dahshan**, and Hatem El-Borey. "Speech Recognition System Based on Wavelet Transform and Artificial Neural Network." **Egyptian Computer Science Journal, ECS**, 37 (3) (2013) p. 85-96.
- 33- **El-Dahshan, El-Sayed A.**, Mohsen Heba M., Revett Kenneth & Salem Abdel-Badeeh M. "Computer-aided diagnosis of human brain tumor through MRI: A survey and a new algorithm." **Expert systems with Applications**, 41.11 (2014) p. 5526-5545.
- 34- Saady, Mohammed R., Hatem El-Borey, **El-Sayed A. El-Dahshan**, and Ashraf Shamseldin Yahia. "Stand-Alone Intelligent Voice Recognition System." **Journal of Signal and Information Processing**, 5(04) (2014) p. 179-190.
- 35- Mahmoudi Y. El-Bakry, **El-Sayed A. El-Dahshan**, and Salah Y. El-Bakry. "Mathematical modelling for pseudorapidity distribution of hadron-hadron collisions." **The European Physical Journal Plus**, 130.1 (2015) p.1-7.



- 36- Khalil, Mohammed H., El-Sayed A. El-Dahshan, and Salah Y. El-Bakry; Computational Method for Backbending Calculations of Some Even-Even Rare Earth Nuclei, International Journal of Physics and Research (IJPR), 5(5) (2015) p. 9-18.
- 37- Khalil, Mohammed H., El-Sayed A. El-Dahshan, and Salah Y. El-Bakry. "An Intelligent Approach for Backbending modeling of Odd Mass Nuclei, International Journal of Physics and Research (IJPR), 5(6) (2015) p. 1-10.
- 38- Bassiouni, M., Khaleefa, W., El-Sayed A. El-Dahshan, & Salem, A. B. M. "A study on the Intelligent Techniques of the ECG-based Biometric Systems." RECENT ADVANCES in ELECTRICAL ENGINEERING (ISBN: 978-1-61804-351-1), (2015) p. 26-31.
- 39- Bassiouni, M., Khaleefa, W., El-Sayed A. El-Dahshan, & Salem, A. B. M. A machine learning technique for person identification using ECG signals, International Journal of Applied Physics, 1, (2016) P. 37-41.
- 40- Heba Mohsen Mohamed, El-Sayed A. El-Dahshan, El-Sayed El-Horbaty, Abdel-Badeeh Salem ; A Comparative Study of Segmentation Techniques for Brain Magnetic Resonance Images, ATINER'S Conference Paper Series – 2016. 12th Annual International Conference on Information Technology & Computer Science; At: Athen, 12 pages.
- 41- Bassiouni, M., Khaleefa, W., El-Sayed A. El-Dahshan, & Salem, A. B. M. "An Intelligent Approach for Person Identification Using Phonocardiogram Signals." International Journal of Applications of Fuzzy Sets and Artificial Intelligence, 6 (2016) p. 103 -117.
- 42- Bassiouni, M., Khalifa, W., El-Sayed A. El-Dahshan, & Salam, A. B. M. (2015, December). A study on PCG as a biometric approach. In Intelligent Computing and Information Systems (ICICIS), 2015 IEEE Seventh International Conference on (pp. 161-166). IEEE
- 43- Mahmoud Y. El-Bakry, El-Sayed A. El-Dahshan, Amr Radi, Mohamed Tantawy, Moaaz A. Moussa, Modeling and Simulation for High Energy Sub-Nuclear Interactions Using Evolutionary Computation Technique." Journal of Applied Mathematics and Physics, 4.01 (2016) p. 53-65.



- 44- El-Bakry, M. Y., **El-Sayed A. El-Dahshan**, A. Radi, M. Tantawy, and M. A. Moussa " The Application of the GA-BP Neural Network Algorithm in the high-energy physics." **East European Journal of Physics**, 3(2) (2016) p. 4-14.
- 45- Arasi, Munya A., **El-Sayed A. El-Dahshan**, E. M. El-Horbaty, and A. M. Salem. "Intelligent Methodologies for Melanoma Diagnosis." **International Journal of Current Trends in Engineering & Technology** 2 (05) (2016) p. 429-435.
- 46- Munya A. Arasi, **El-Sayed A. El-Dahshan**, El-Sayed M. El-Horbaty, AbdelBadeeh M. Salem, Malignant Melanoma Detection Based on Machine Learning Techniques: **Egyptian Computer Science Journal**, 40 (03) (2016) p.1-10.
- 47- **EL-Sayed A. El-Dahshan** & Mahmoud. Y. El-Bakry, Modeling of Transverse Momentum Spectra for Charged Particles in Proton–Proton Collisions Based on Soft Computing Approaches, **Journal of Computational and Theoretical Transport**, 46:6-7 (2017) p. 410-426.
- 48- **El-Sayed A. El-Dahshan**, & Salah Y. El-Bakry,. Empirical equation using GMDH methodology for the charged particles multiplicity distribution in hadronic positron-electron annihilation, **East European Journal of Physics**, 4(3) (2017) p.18-25.
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## Contributions in International Journal Refereeing Process

### Peer reviewer for scientific journals and Ph. D. Theses:

- 1- Digital Signal Processing- Journal - **Elsevier**.
- 2- Biomedical Signal Processing and Control - Journal - **Elsevier**.
- 3- Australasian Physical & Engineering Sciences in Medicine - Journal – **Springer**.
- 4- Journal of Intelligent Systems- Journal - **De Gruyter**.
- 5- Informatics in Medicine Unlocked- Journal – **Elsevier**.
- 6- Biocybernetics and Biomedical Engineering Journal – **Elsevier**.
- 7- Expert Systems with Applications Journal – **Elsevier**.
- 8- IEEE Sensors Journal-**IEEE**.
- 9- IEEE Transactions on Circuits and Systems II: Express Briefs-**IEEE**.
- 10-Computers in Biology and Medicine Journal – **Elsevier**.
- 11-Entropy-MDPI Journal-**MDPI**.
- 12-Sensors-MDPI Journal-**MDPI**.
- 13-Applied Sciences --MDPI Journal-**MDPI**.
- 14-Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization – **Taylor and Frances**.
- 15-**Examiner to evaluate the Ph.D. thesis Indian Universities: Noorul Islam Centre for Higher Education, Tiruppur Kumaran College for Women, Pondicherry Engineering College, Bannari. Amman Institute of Technology, Bharathiar University, Tamilnadu, India. Anna University, Chennai, Tamil Nadu.**
- 16-**Examiner to evaluate the M. Sc. And Ph.D. thesis in Egyptian Universities:**

**STUDENT SUPERVISION:** Supervision of 13 MSc and PhD students for the Ain Shams University (“Faculty of Sciences”, “Faculty of Computer Science and Information Technology” and “Faculty of Education”).

**External examiner:** I have acted as an external examiner to more than 15 MSc and Ph. D. theses (Anna University, Chennai. India, Ain Shams University).

❖ **تم ذكر أبحاثه كمراجع في أبحاث أخرى لباحثين آخرين (Google Scholar Citations) حوالى 2415 مرة حتى تاريخه وكان معامل (h-index) حتى تاريخه (يوليو 2022) =19.**

❖ **وأيضاً Researchgate . Researchgate Semantic Scholar, Scopus, dblp Score=22.54**

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2. **Scopus** <https://www.scopus.com/authid/detail.uri?authorId=26643944200>
3. **ResearchGate** [https://www.researchgate.net/profile/El-Sayed\\_El-Dahshan](https://www.researchgate.net/profile/El-Sayed_El-Dahshan)
4. **dblp** [https://dblp.uni-trier.de/pers/hd/e/El=Dahshan:El=Sayed\\_A=](https://dblp.uni-trier.de/pers/hd/e/El=Dahshan:El=Sayed_A=)
5. **Semanticscholar** : <https://www.semanticscholar.org/author/El-Sayed-A.-El-Dahshan/2985355>.
6. **ORCID** <https://orcid.org/0000-0002-1221-0262>.
7. <https://publons.com/researcher/1704804/el-sayed-a-el-dahshan/>
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### الجمعيات العلمية وعضوية هيئة التحرير بالمجلات العلمية في الداخل والخارج:

1. <http://ecsjournal.org/JournalBoard.aspx> - Egyptian Computer Science Journal
2. <http://www.warse.org/IJBMIeH/editorialBoard> International Journal of Bio-Medical Informatics and e-Health
3. <http://researchwebpub.org/index.htm> -Webpub Journal of Scientific Research

❖ المشاركة في لجان تقييم المتقدمين للحصول على بعثات علمية ومهمات علمية وإشراف مشترك للحصول على الدكتوراة بالخارج في خطة البعثات -أكاديمية البحث العلمي- عام 2015-2016.

❖ الحصول على جائزة حافز النشر العلمي ابتداء من عام 2008 وحتى الآن، وأيضاً مكافأة النشر العلمي من جامعة عين شمس عن أبحاثه المنشورة في أعوام من 2008 حتى الآن.

❖ مدرج في قائمة افضل 2% من علماء العالم حسب تقييم جامعة استانفورد الأمريكية- نوفمبر 2020.

❖ عضو بمجلس جامعة عين شمس البحثي - إبتداء من مارس 2021.

❖ مدرج في قائمة افضل 2% من علماء العالم للمرة الثانية على التوالي حسب تقييم جامعة استانفورد الأمريكية- نوفمبر 2021.

**AD** مدرج في قائمة افضل 10,000 عالم من علماء أفريقيا- نوفمبر 2021.

**Scientific Index - Africa Scientist Rankings - 2021**