Ain Shams University
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جامعة عين شمس
كلية العلوم
العباسية – القاهرة 11566 – مصر

Curriculum Vitae

El-Sayed Abel-Rahman El-Dahshan

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e-mail: seldahshan@sci.asu.edu.e, seldahshan@eelu.edu.eg, e_eldahshan@yahoo.com,

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

My name appears in the list of world's top 2% scientists (Stanford University list of top 2% of world's scientists-researchers-2020-2025).

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**).
1996-1998 (in Egypt). — **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).**

1988-1991 — **M.Sc. in Microwaves (Electronics)**

Faculty of Science
1987 – 1988 — 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**

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Cairo, Egypt.

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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	**Full Professor "Computational Physics"** Department of Physics, Faculty of Science Ain Shams University Cairo, Egypt.
2012	**Full Professor "Scientific Computing"** E-learning University (EELU) 33 El-messaha St. El-Doki Giza, Egypt
2011	**Associate Professor** 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	**Expert** 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

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, 6th 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, 6th 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, 6th October City-Cairo, Egypt, 2006- 2010.

16- Teaching *Undergraduate Course in "**Computer Organization & Architecture**",* Misr University for Science & Technology, 6th October City-Cairo, Egypt, 2006-2008.

17- Teaching *Undergraduate Course in "**Artificial Intelligence**",* Misr University for Science & Technology, 6th October City-Cairo, Egypt, 2007- 2010.

18- 18- Teaching *Undergraduate Course in "**Digital Signal Processing and Multimedia**",* Misr University for Science & Technology, 6th October City-Cairo, Egypt, 2007- 2010.

19- Teaching *Undergraduate Course in "**Logic Design with VHDL**",* Misr University for Science & Technology, 6th October City-Cairo, Egypt, 2006- 2010.

20- Teaching *Undergraduate Course in "**Digital Systems Design Using FPGA and VHDL**",* Misr University for Science & Technology, 6th October City-Cairo, Egypt, 2007- 2010.

21- Teaching *Undergraduate Course in "**Expert Systems and decision support systems** ",* Misr University for Science & Technology, 6th October City-Cairo, Egypt, 2007- 2010.

22- *Teaching Undergraduate Course in "**Artificial Neural Networks**",* Misr University for Science & Technology, 6th 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.***

36- Teaching *Undergraduate Course in "Modeling and Simulation**"**",* Ain Shams University University-Cairo, Egypt, 2020- ***present.***

37- Teaching *Undergraduate Course in "Computational Physics**"**",* Ain Shams University University-Cairo, Egypt, 2020- ***present.***

38- Teaching *Undergraduate Course in "Advanced Computational Physics**"**",* Ain Shams University University-Cairo, Egypt, 2020- ***present.***

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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 6th 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.

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 Datat 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 Stuwart, 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 (More than 100 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 CuInSe2 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.

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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- Electronics-MDPI Journal-**MDPI.**
14- Diagnoistics-MDPI Journal-**MDPI.**
15- Applied Sciences --MDPI Journal-**MDPI.**
16- Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization – **Taylor and Frances.**
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❖ **تم ذكر أبحاثه كمراجع فى أبحاث أخرى لباحثين أخرين (Google Scholar Citations) حوالى 4370 مرة حتى تاريخه وكان معامل (h-index) حتى تاريخه (ينوفمبر 2025)=23.**

❖ **Researchgate . Researchgate Semantic Scholar, Scopus, dblp وأيضاً Score=23.45**

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الجمعيات العلمية وعضوية هيئة التحرير بالمجلات العلمية في الداخل والخارج:

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

❖ **المشاركة في لجان تقيم 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.**

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