

**PERSONAL
INFORMATUIN**



Gerges Mansour Salama (Gerges M. Salama)



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Web of Science Researcher ID: AAB-7078-2022



<https://www.scopus.com/authid/detail.uri?authorId=55791119000>

Gender:	Date of Birth:	Nationality:	Marital status:
Male	26.08.1976	Egyptian	Married and have kids

ACADEMIC QUALIFICATIONS=====

2008 - 2012 **Ph.D.** in Electrical Engineering, ST. Petersburg state University of Telecommunication N. A. Prof. N. A. **Bonch-Bruevich, Russia.**
Faculty of Telecommunication Networks, Switching Systems, and Computer Technology (FTN, SS, and CT).
Thesis title:
“Study of Internet Protocol Television (IPTV) Network Models ”
Supervised by: Prof. Dr. Goldstein Boris Solomonovich



2002 - 2008 **M.Sc.**, Electrical Engineering Dep., Faculty of Engineering, Minia University.
Thesis Title
“Video signal compression through motion estimation and compensation”.



1995 - 1999 **B.Sc.**, Electrical Engineering Dep., (electronic and communications)
Faculty of Engineering, Minia University, Egypt.



Very good with honors' degree
Project Grade: Distinction

WORK EXPERIENCE=====

2021- present	Associate Professor Electrical Engineering Department, Faculty of Engineering, Minia University	
2013-2020	Lecturer Electrical Engineering Department, Faculty of Engineering, Minia University.	
2006-2008	Assistant Lecturer Electrical Engineering Department, Faculty of Engineering, Minia University.	
202-2006	Demonstrator Electrical Engineering Department, Faculty of Engineering, Minia University.	

TEACHING EXPERIENCE =====

Summary of Courses Taught

20012- present	• Fundamental of digital circuits • Communication systems • Fundamental of Electronics • Fundamentals of Electric circuits • Control • Digital Communications • Antenna and Wave Propagation • Communication theory • Adaptive filters & Digital signal processing • Neural Networks and their applications • Advanced Mathematics • Electric circuits • IPTV • Image processing • Wave propagation • Wave shaping • Optical fiber • Antenna	
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Research Students Supervised/Trained Level Number of Trainees Postdoctoral Fellows

2012- present	• PhD Students: 20 • Master Students: 8 • Undergraduate Students: 1000	
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RESEARCH =====

Research Interests

20012- present	- Artificial Intelligence and Neural Networks and their applications in the field of communications and Digital Signal Processing. - Image and general signal processing - Adaptive filter design and applications - Adaptive algorithms and nonlinear time series analysis and prediction - Biomedical signal processing and applications - Optical Communications & devices. - Computer Network security - Cognitive Radio - Video signal processing	
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Research Students Supervised/Trained Level Number of Trainees Postdoctoral Fellows

20012- present	- PhD Students: 8 - Master Students: 5 - Undergraduate Students:20	
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Participation in Thesis and Oral Examination Committees Level Number of Examinations

20012- present	- PhD Students: 4 - Master Students: 2	
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Publications/Citations Data

20012- present	- Number of Publications Articles in International Refereed: 17 Number of Publications Articles. - Conference Papers: 10	
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Service as Reviewer Journals Name of Journal, ISSN No., Publisher

2012- present	- IEEE Transactions on Evolutionary Computation - ISSN: 1089-778X IEEE - IET Computers and Digital Techniques. - IEEE Transactions on Biomedical Engineering - IEEE Access. - Journal of Advanced Engineering Trends	
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SCIENTIFIC, EDUCATIONAL ACTIVITIES =====

SCIENTIFIC, EDUCATIONAL ACTIVITIES

2012- present	- Member of the faculty laboratories committee. - Member of the College's Cultural Relations Committee. - Member of the College Environmental Affairs Committee. - Descriptions of undergraduate and postgraduate courses for the Quality and Accreditation Project - System decision-Communications - digital communications course, electrical engineering course, systems analysis course, and courses Graduate Studies. - Scientific supervision of many theses for masters and doctoral degrees.	
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	• Member of the Organizing Committee of the Eighth International Conference on Electrical Power Systems (MEPCON '2006) • Scientific supervision of the implementation of graduation projects for final years students at the College of Engineering. • Participating in teaching the curricula of the bachelor's level. • Participating in teaching graduate studies curricula for the master's and doctoral levels. • Coordinator of the Electrical Engineering Department, Quality Unit, Faculty of Engineering, Minia University	
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Different activities in the fields of quality/projects of higher education development

University/Institution	Activities	
Faculty of Engineering, Minia University	Member of the Board of the Quality Assurance Unit (from 212 – present)	
Universities, Colleges and institutes of higher education	Participation in self-assessment, internal audit, simulation visits, review of strategic plans and self-study, learning outcomes of programs and courses	

Training Experience	Quality Assurance	
National Authority for Quality Assurance and Accreditation of Education (NAQAEE)	• Self-evaluation of higher education institutions. • Learning outcomes and curriculum maps - higher education • External auditing of higher education institutions. • Intensive external auditing course of higher education institutions.	

AWARDS=====

2012- present	• Prize of international publications from Minia University,2021 • Prize of international publications from Minia University,2020. • Prize of international publications from Minia University,2019. • Prize of international publications from Minia University,2018.	
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PUBLICATIONS=====

1.	Hassan S. Emad, Dessouky M. Ahmed, Fathi Hesham, Salama M. Gerges, Oshaba S. Ahmed, El-Emary Atef, Abd El-Samie E. Fathi, Improved Hybrid Approach for Enhancing Protein Coding Regions Identification in DNA Sequences, Current Bioinformatics; Volume 19, Issue , Year 2024, e300124226525. DOI: 10.2174/0115748936287244240117065325
2.	Salama, G.M., Metwly, S.S., Shehata, E.G., Abd El-haleem, A.M. (2024). Maximizing IoT throughput with optimized IRS-assisted symbiotic radio. <i>Ingénierie des Systèmes d'Information</i> , Vol. 29, No. 2, pp. 421-427. https://doi.org/10.18280/isi.290203
3.	G. M. Salama, S. Ashraf, E. S. Bayoumi, M. Elwan and M. K. Abd-Ellah, "Brain Tumor Automated Detection System Based on Hybrid Deep Learning Networks Using MRI Images," <i>2024 International Telecommunications Conference (ITC-Egypt)</i> , Cairo, Egypt, 2024, pp. 72-77, doi: 10.1109/ITC-Egypt61547.2024.10620453.
4.	Salama, G.M., Hamed, H.F.A., Abd El-Samie, F.E. <i>et al.</i> Iterative reconstruction algorithms in neutron tomography imaging. <i>J Opt</i> (2024). https://doi.org/10.1007/s12596-024-01748-7
5.	Salama, G.M., Zaky, M.M., Hamed, H.F.A. <i>et al.</i> Removal of ring artifacts in neutron tomography image slices. <i>J Opt</i> (2024). https://doi.org/10.1007/s12596-024-02131-2
6.	Elshawadfy, Sherif A., Hussein, Aziza I. and Salama, Gerges M.. "Comparative study of DCT-and DHT-based OFDM systems over doubly dispersive fading channels" <i>Journal of Optical Communications</i> , 2024. https://doi.org/10.1515/joc-2024-0041
7.	Salama, Gerges M., Mohamed, Amira A. and Abdalla, Haitham F.. "Evaluating DNN and LSTM nonlinear compensators for enhanced performance in DCO-OFDM system" <i>Journal of Optical Communications</i> , 2024. https://doi.org/10.1515/joc-2023-0392
8.	Salama, Gerges and S.Mohamad, Y. and Saif, Maha' The Role of Sigma-Delta ADCs and Zero-Forcing Estimator in Massive MIMO Channel Estimation' <i>Journal of Advanced Engineering Trends</i> , 2024, 10.21608/JAET.2024.243344.1262
9.	Wael Z Tawfik and Samar N Mohammad and Kamel H Rahouma and Gerges M Salama and Emad Tammam, Machine learning models for capacitance prediction of porous carbon-based supercapacitor electrodes, <i>Physica Scripta</i> , volume = {99}, number = {2}, pages = {026001}, 5 January 2024. ISSN: 0031-8949, https://dx.doi.org/10.1088/1402-4896/ad190c
10.	Salama, G.M., Mohamed, A. & Abd-Ellah, M.K. COVID-19 classification based on a deep learning and machine learning fusion technique using chest CT images. <i>Neural Comput & Applic</i> (2023). https://doi.org/10.1007/s00521-023-09346-7
11.	Wael Z. Tawfik, Samar N. Mohammad, Kamel H. Rahouma, Emad Tammam, Gerges M. Salama , An artificial neural network model for capacitance prediction of porous carbon-based supercapacitor electrodes , <i>Journal of Energy Storage</i> , Volume 73, Part A, 2023, 108830, ISSN 2352-152X, https://doi.org/10.1016/j.est.2023.108830 .
12.	Salama, G.M., El-Shafai, W., El-Gazar, S. <i>et al.</i> Efficient implementation of double random phase encoding and empirical mode decomposition for cancelable biometrics. <i>Opt Quant Electron</i> 55 , 1210 (2023). https://doi.org/10.1007/s11082-023-05005-2
13.	Salama, G.M., El-Gazar, S., Omar, B. <i>et al.</i> Multimodal cancelable biometric authentication system based on EEG signal for IoT applications. <i>J Opt</i> (2023). https://doi.org/10.1007/s12596-023-01302-x

14.	Salama, G.M. , El-Gazar, S., Nassar, R.M. <i>et al.</i> Efficient multimodal cancelable biometric system based on steganography and cryptography. <i>Iran J Comput Sci</i> 6 , 109–121 (2023). https://doi.org/10.1007/s42044-022-00115-8
15.	Ghanem, H.S., Al-Makhlaw, Salama, Gerges M. , R.M., El-Shafai, W. <i>et al.</i> Wireless modulation classification based on Radon transform and convolutional neural networks. <i>J Ambient Intell Human Comput</i> 14 , 6263–6272 (2023). https://doi.org/10.1007/s12652-021-03650-7
16.	G. M. Salama , S. S. Metwly, E. G. Shehata and A. M. A. El-Haleem, "Deep Reinforcement Learning Based Algorithm for Symbiotic Radio IoT Throughput Optimization in 6G Network," in IEEE Access, vol. 11, pp. 42331-42342, 2023, doi: 10.1109/ACCESS.2023.3271423.
17.	Gerges M. Salama , Basma Omar, Walid El-Shafai, Ghada M. El-Banby, Hesham F. A. Hamed, Safaa El-Gazar, Naglaa F. Soliman, and Fathi E. Abd El-Samie, "Secure biometric systems based on bio-signals and DNA encryption of optical spectrograms," <i>Opt. Express</i> 31 , 3927-3944 (2023).
18.	Salama, G.M. , El-Gazar, S., Nassar, R.M. <i>et al.</i> Efficient multimodal cancelable biometric system based on steganography and cryptography. <i>Iran J Comput Sci</i> (2022). https://doi.org/10.1007/s42044-022-00115-8
19.	Hanan S. Ghanem, Mohamed R. Shoaib, Safaa El-Gazar, Heba Emara, Walid El-Shafai, Samia A. El-Moneim, Adel S. El-Fishawy, Taha E. Taha, Hesham F.A. Hamed, Ghada M. El-Banby, Maha Elsabrouty, El-Sayed M. El-Rabaie, Fathi E. Abd El-Samie, Gerges M. Salama . Automatic modulation classification with 2D transforms and convolutional neural network. <i>Trans Emerging Tel Tech.</i> 2022;e4623. doi: 10.1002/ett.4623
20.	Gerges M. Salama , Safaa El-Gazar, Basma Omar, Rana M. Nassar, Ashraf A. M. Khalaf, Ghada M. El-banby, Hesham F. A. Hamed, Walid El-shafai, and Fathi E. Abd el-samie, "Cancelable biometric system for IoT applications based on optical double random phase encoding," <i>Opt. Express</i> 30 , 37816-37832 (2022). https://doi.org/10.1364/OE.466101 .
21.	Salama, G.M. , Abdalla, H.F., Mohamed, A.A., Hassan, E.S., Dessouky, M.I., Khalaf, A.A.M., El-Emary, A., Elsafrawy, A.S.: PAPR reduction technique for FBMC based visible light communication systems. <i>IET Commun.</i> 00 , 1– 8 (2022). https://doi.org/10.1049/cmu2.12430 .
22.	S. El-Gazar, W. El-Shafai, G. El-Banby, H. F. A. Hamed, G. M. Salama et al., "Cancelable speaker identification system based on optical-like encryption algorithms," <i>Computer Systems Science and Engineering</i> , vol. 43, no.1, pp. 87–102, 2022. http://dx.doi.org/10.32604/csse.2022.022722 .
23.	Barakat, M., Donkol, A., Salama, G.M. <i>et al.</i> "Optimal Design of Fuzzy Plus Fraction-Order-Proportional-Integral-Derivative Controller for Automatic Generation Control of a Photovoltaic"—Reheat Thermal Interconnected Power System. <i>Process Integr Optim Sustain</i> (2022). https://doi.org/10.1007/s41660-022-00257-z .

24.	Barakat, M., Salama, G. , Donkol, A., Hamed, H. (2021). 'OPTIMAL DESIGN OF FRACTION-ORDER PROPORTIONAL-DERIVATIVE PROPORTIONAL-INTEGRAL CONTROLLER FOR LFC OF THERMAL-THERMAL-WIND TURBINES CONSIDERING NONLINEARITIES', <i>Journal of Advanced Engineering Trends</i> , 41(2), pp. 275-283. http://dx.doi.org/10.21608/jaet.2021.64407.1090 .
25.	Ghanem, H.S., Al-Makhlisawy, R.M., El-Shafai, W., Salama, G.M. et al. <i>Wireless modulation classification based on Radon transform and convolutional neural networks</i> . <i>J Ambient Intell Human Comput</i> (2022). https://doi.org/10.1007/s12652-021-03650-7 .
26.	Alaa, M., Salama, G. , Galal, A., Hamed, H. 'A Robust Lane Detection Method for Urban roads', <i>Journal of Advanced Engineering Trends</i> , 41(1), pp. 13-26. (2022), https://dx.doi.org/10.21608/jaet.2020.37172.1025
27.	Barakat, M., Donkol, A., Hamed, H.F.A., Salama, G.M. et al. "Controller parameters tuning of water cycle algorithm and its application to load frequency control of multi-area power systems using TD-TI cascade control". <i>Evolving Systems</i> , 13, 117–132 (2022). https://doi.org/10.1007/s12530-020-09363-0 .
28.	Salsabeel E. Othman, Gerges M. Salama , Hesham.F.A. Hamed, "Methodology for the remote transfer of GPS receiver station data through a GSM network", <i>Heliyon</i> , Volume 7, Issue 11, 2021, e08330, ISSN 2405-8440, https://doi.org/10.1016/j.heliyon.2021.e08330 .
29.	Rasha M. Al-Makhlisawy, Hanan S. Ghanem, Hossam M. Kassem, Maha Elsabrouty, Hesham F. A. Hamed, Fathi E. Abd El-Samie, Gerges M. Salama . "Deep learning for wireless modulation classification based on discrete wavelet transform". <i>Int J Commun Syst</i> . 2021; 34(18): e4980. https://doi.org/10.1002/dac.4980 .
30.	Ahmed M. Dessouky, Fathi E. Abd El-Samie, Hesham F. A. Hamed & Gerges M. Salama (2021), "Optimum model selection and statistical analysis for DNA sequences", <i>Nucleosides, Nucleotides & Nucleic Acids</i> , 40:8, 808-820, https://doi.org/10.1080/15257770.2021.1951755 .
31.	Barakat, M., Donkol, A., Hamed, H.F.A. , Salama, G.M. ,et al. Harris Hawks-Based Optimization Algorithm for Automatic LFC of the Interconnected Power System Using PD-PI Cascade Control. <i>J. Electr. Eng. Technol.</i> 16 , 1845–1865 (2021). https://doi.org/10.1007/s42835-021-00729-1 .
32.	Bidaa Mortada, Hanan S. Ghanem, Randa S. Hammad, Safie El-Din Nasr Mohamed, Ahmed Sedik, Rania A. Eltaieb, Walid El-Shafai, Ahmed Nabih Zaki Rashed, Mohsen A. M. El-Bendary, Mohammed Salah F. Tabbour, Ghada M. El Banby, Ashraf A.M. Khalaf, Ahmed E. A. Farghal, HossamEl-din H. Ahmed, Gamal A. Hussein, El-Sayed M. El-Rabaie, Ibrahim M. Eldokany, Moawad I. Dessouky, Abdelnaser A. Mohamad, O. Zahran, Maha Elsabrouty, Hesham F. A. Hamed, Gerges M. Salama , Said E. El-Khamy, Hossam M. H. Shalaby, and Fathi E. Abd El-Samie, "Optical wireless communication performance enhancement using Hamming coding

	<i>and an efficient adaptive equalizer with a deep-learning-based quality assessment," Appl. Opt.</i> 60, 3677-3688 (2021), https://doi.org/10.1364/AO.418438 .
33.	Dessouky, Ahmed M.; Abd El-Samie, Fathi E.; Fathi, Hesham; Salama, Gerges M., "Statistical DNA Sequence Modeling and Exon Detection Using Non-Parametric Methods" Volume 09, July 2020 IJCDS Journal. http://dx.doi.org/10.12785/ijcds/090406 .
34.	Salama, GM , Ismail, AH, Soliman, TA, Hamed, HFA, El-Bahnasawy, NA. "Congestion-aware multiaccess edge computing collaboration model for 5G". <i>Int J Commun Syst.</i> 2020; 33: e4446. https://doi.org/10.1002/dac.4446
35.	Ahmed M. Dessouky, Fathi E. Abd El-Samie, Hesham Fathi & Gerges M. Salama , "Efficient implementation of parametric spectral estimation techniques for DNA exon prediction", <i>Nucleosides, Nucleotides & Nucleic Acids</i> , 39:8, 1200-1221, (2020), https://doi.org/10.1080/15257770.2020.1780442
36.	Gerges M. Salama , Hesham F.A. Hamed, Essam A.M. Deabes, Salsabeel E. Othman, An innovative technique for the development of the traditional mechanical tide gauge to improve the performance of the measurement system, <i>Measurement: Sensors</i> , Volumes 2–4, 2019,100005, ISSN 2665-9174, https://doi.org/10.1016/j.measen.2020.100005 .
37.	G. M. Salama and S. A. Taha, "Cooperative Spectrum Sensing and Hard Decision Rules for Cognitive Radio Network," <i>2020 3rd International Conference on Computer Applications & Information Security (ICCAIS)</i> , 2020, pp. 1-6, https://doi.org/10.1109/ICCAIS48893.2020.9096740 .
38.	A. H. Ismail, T. A. Soliman, G. M. Salama , N. A. El-Bahnasawy and H. F. A. Hamed, "Congestion-Aware and Energy-Efficient MEC Model with Low Latency for 5G," <i>2019 7th International Japan-Africa Conference on Electronics, Communications, and Computations, (JAC-ECC)</i> , 2019, pp. 156-159, https://doi.org/10.1109/JAC-ECC48896.2019.9051312
39.	Shehata, EG, Gaber, MS, Ahmed, KA, Salama, GM . "Implementation of an energy management algorithm in DC MGs using multi-agent system". <i>Int Trans Electr Energy Syst.</i> 2019; 29: e2790. https://doi.org/10.1002/etep.2790 .
40.	M. Barakat, A. Donkol, H. AlRahall, G. M. Salama and H. Hesham F. A., "Water Cycle Algorithm optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System," <i>2019 21st International Middle East Power Systems Conference (MEPCON)</i> , 2019, pp. 1112-1118, https://doi.org/10.1109/MEPCON47431.2019.9008054 .
41.	F. A. Elgeldawy, G. M. Salama and M. F. Abdel Fattah, "Performance of QOS parameters for IPTV through NGN," <i>2016 IEEE Student Conference on Research and Development (SCORED)</i> , 2016, pp. 1-6, https://doi.org/10.1109/scored.2016.7810101 .
42.	Mohammed, M., Hussein, A., Salama, G. , Algeldawy, F. 'Sigma Delta Modulator Based Multi-Standard Transmitter Design For Wireless Communication Applications', <i>The International Conference on Electrical Engineering</i> , 10(10th

	International Conference on Electrical Engineering ICEENG 2016), pp. 1-13. (2016). https://dx.doi.org/10.21608/iceeng.2016.30263 .
43.	E.G. Shehata, Gerges M. Salama , Direct power control of DFIGs based wind energy generation systems under distorted grid voltage conditions, International Journal of Electrical Power & Energy Systems, Volume 53, 2013, Pages 956-966, ISSN 0142-0615, https://doi.org/10.1016/j.ijepes.2013.06.006 .
44.	Goldstein B., Mansour G. Improving IPTV On-Demand Transmission Scheme over WiMax. In: Balandin S., Koucheryavy Y., Hu H. (eds) Smart Spaces and Next Generation Wired/Wireless Networking. ruSMART 2011, NEW2AN 2011. Lecture Notes in Computer Science, vol 6869. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-22875-9_49 .
45.	Gerges, M.S.: Improvement transmission patterns IPTV-VoD in broadband networks. In: 63rd Scientific-Technical Conference, pp. 186–187. St. Petersburg State University of Telecommunications, Russia (2011).
46.	Гергес М. С., Схема передачи данных услуги Интернет-телевидения "Видео по запросу" с применением гибридного механизма, Изв. Вузов России. Радиоэлектроника, 2011г. №5. С. 44-50.
47.	Гергес М. С., Оценка показателей выполнения повторного упорядочивания пакетов в сети IPTV, Изв. Вузов России. Радиоэлектроника. № 4, 2011, С. 37-41.
48.	Гергес М. С., Улучшение качества передачи IPTV-услуги видео по запросу через широкополосную сеть доступа, Проблемы информатики. 2011г. №3. С. 79-88.
49.	Гергес М. С., Об одном подходе к организации IPTV-услуги «Видео по запросу» с применением гибридного механизма, Техника Связи № 1, 2011, С. 16-21.
50.	Гергес М. С., Улучшение схемы передачи IPTV-VoD в широкополосных сетях, 63-я НТК: Тез. Докл. СПбГУТ. СПб, Февраль 2011г, С. 186-187.
51.	Гергес М. С., Оценка производительности алгоритма поддержки очередности пакетов в сети IPTV, 63-я НТК: Тез. Докл. СПбГУТ. СПб, 2011г, С. 211-215.
52.	Гергес М. С., Особенности построения системы эксплуатационного управления услугами IPTV, 63-я НТК: Тез. Докл. СПбГУТ. СПб, 2011г, С. 199-200.
53.	Гергес М. С., Оценка производительности алгоритма поддержки очередности пакетов в сети IPTV, Проблемы информатики. 2011г. № 1. С. 27-32.
54.	Гергес М.С., Варианты применения теории массового обслуживания в сетях IPTV, 62-я НТК: Тез. Докл. СПбГУТ. СПб, 2010г, С. 36-37

References

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Prof. Dr. Boris S. Goldstein (PhD Supervisor)

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