

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

САНКТ-ПЕТЕРБУРГСКИЙ

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	<ul style="list-style-type: none"> • 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


20012- present	<ul style="list-style-type: none"> • PhD Students: 10 • Master Students: 5 • Undergraduate Students: 100 	
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RESEARCH =====

Research Interests

20012- present	<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • PhD Students: 4 • Master Students: 2 	
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Publications/Citations Data


20012- present	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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. 	
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	<ul style="list-style-type: none"> • Scientific supervision of many theses for masters and doctoral degrees. • 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)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.	
2.	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).
3.	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.
4.	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)
5.	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
6.	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 .
7.	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 .
8.	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 .
9.	Barakat, M., Donkol, A., Salama, G.M. et al. " 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 .
10.	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 .
11.	Ghanem, H.S., Al-Makhlasy, R.M., El-Shafai, W., Salama, G.M. et al. Wireless modulation classification based on Radon transform and convolutional neural networks . <i>J Ambient Intell Human Comput</i> (2022). https://doi.org/10.1007/s12652-021-03650-7 .
12.	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
13.	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 .
14.	Salsabeel E. Othman, Gerges M. Salama , Hesham.F.A. Hamed, " <i>Methodology for the remote</i>

	<i>transfer of GPS receiver station data through a GSM network</i> ", Heliyon, Volume 7, Issue 11, 2021, e08330, ISSN 2405-8440, https://doi.org/10.1016/j.heliyon.2021.e08330 .
15.	Rasha M. Al-Makhlaway, 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 .
16.	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" , Nucleosides, Nucleotides & Nucleic Acids, 40:8, 808-820, https://doi.org/10.1080/15257770.2021.1951755 .
17.	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 .
18.	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 and an efficient adaptive equalizer with a deep-learning-based quality assessment," <i>Appl. Opt.</i> 60, 3677-3688 (2021), https://doi.org/10.1364/AO.418438 .
19.	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 <i>IJCDS Journal</i> . http://dx.doi.org/10.12785/ijcnds/090406 .
20.	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
21.	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
22.	Gerges M. Salama , Hesham F.A. Hamed, Essam A.M. Deabas, 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 .
23.	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 .
24.	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
25.	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 Energ Syst.</i> 2019; 29: e2790. https://doi.org/10.1002/etep.2790 .
26.	M. Barakat, A. Donkol, H. AlRahall, G. M. Salama and H. Hesham F. A., "Water Cycle Algorithm


	<i>optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System," 2019 21st International Middle East Power Systems Conference (MEPCON), 2019, pp. 1112-1118, https://doi.org/10.1109/MEPCON47431.2019.9008054 .</i>
27.	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), 2016, pp. 1-6, https://doi.org/10.1109/scored.2016.7810101 .</i>
28.	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, 10(10th International Conference on Electrical Engineering ICEENG 2016), pp. 1-13. (2016). https://dx.doi.org/10.21608/iceeng.2016.30263 .</i>
29.	E.G. Shehata, Gerges M. Salama , Direct power control of DFIGs based wind energy generation systems under distorted grid voltage conditions, <i>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 .</i>
30.	Goldstein B., Mansour G. Improving IPTV On-Demand Transmission Scheme over WiMax. In: Balandin S., Koucheryav Y., Hu H. (eds) <i>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 .</i>
31.	Gerges, M.S.: Improvement transmission patterns IPTV-VoD in broadband networks. In: <i>63rd Scientific-Technical Conference, pp. 186–187. St. Petersburg State University of Telecommunications, Russia (2011).</i>
32.	Гергес М. С., Схема передачи данных услуги Интернет-телевидения "Видео по запросу" с применением гибридного механизма, <i>Изв. Вузов России. Радиоэлектроника, 2011г. №5. С. 44-50.</i>
33.	Гергес М. С., Оценка показателей выполнения повторного упорядочивания пакетов в сети IPTV, <i>Изв. Вузов России. Радиоэлектроника. № 4, 2011, С. 37-41.</i>
34.	Гергес М. С., Улучшение качества передачи IPTV-услуги видео по запросу через широкополосную сеть доступа, <i>Проблемы информатики. 2011г. №3. С. 79-88.</i>
35.	Гергес М. С., Об одном подходе к организации IPTV-услуги «Видео по запросу» с применением гибридного механизма, <i>Техника Связи № 1, 2011, С. 16-21.</i>
36.	Гергес М. С., Улучшение схемы передачи IPTV-VoD в широкополосных сетях, <i>63-я НТК: Тез. Докл. СПбГУТ. СПб, Февраль 2011г, С. 186-187.</i>
37.	Гергес М. С., Оценка производительности алгоритма поддержки очередности пакетов в сети IPTV, <i>63-я НТК: Тез. Докл. СПбГУТ. СПб, 2011г, С. 211-215.</i>
38.	Гергес М. С., Особенности построения системы эксплуатационного управления услугами IPTV, <i>63-я НТК: Тез. Докл. СПбГУТ. СПб, 2011г, С. 199-200.</i>
39.	Гергес М. С., Оценка производительности алгоритма поддержки очередности пакетов в сети IPTV, <i>Проблемы информатики. 2011г. № 1. С. 27-32.</i>
40.	Гергес М.С., Варианты применения теории массового обслуживания в сетях IPTV, <i>62-я НТК: Тез. Докл. СПбГУТ. СПб, 2010г, С. 36-37</i>

References

Prof. Dr. Hosham F. Aly Hamed

	<p>Department of Electric Engineering, Faculty of Engineering, Minia University, Minia, Egypt Dean of the Faculty of E ng., University, El-minia 61111, Egypt, Tel(mobile): (20)-1112399543, Fax: (20)-86-236-6674 hfah66@yahoo.com https://www.researchgate.net/profile/Hesham_Hamed Telephone: +2(0) 222627853 Fax: +2(0)862346674</p>	
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Prof. Dr. Boris S. Goldstein (PhD Supervisor)

	<p>Faculty of Telecommunication Networks, Switching Systems, and Computer Technology (FTN, SS, and CT) The Bonch-Bruevich Saint-Petersburg State University of Telecommunications, Russia St.Petersburg, 19118661, nab.reki Moika, RUSSIA http://www.sut.ru/about.en.html Tel/fax: +7 (812) 315-01-12</p>	
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