

CURRICULUM VITAE



PERSONAL DATA:

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EDUCATION:

Ph.D., (Oct, 2003) Al-Azhar University, Cairo, Egypt.
Major: Applied Mathematics
Dissertation Title: "On Some Problems in Biofluidmechanics"
M.Sc.,(Nov, 1998) Al-Azhar University, Cairo, Egypt.
Major: Applied Mathematics
Dissertation Title: "Some Numerical Experiments on Shock Waves"
B.Sc., (May., 1992) Al-Azhar University, Cairo, Egypt.
Major: Mathematics

ACADEMIC EXPERIENCES:

Oct.,2010 – Present	Assistant Professor	Department of Mathematics, College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
Aug.,2007 – Oct.,2010	Assistant Professor	Department of Mathematics, College of Arts & Science, King Saud University, Wadi Addwassir, , Saudi Arabia,.
Oct.,2003 – Aug.,2007	Lecturer	Department of Mathematics, Faculty of Science, Al-Azhar University, Cairo, Egypt.
Aug.,1998- Oct.,2003	Assistant Lecturer	Department of Mathematics, Faculty of Science, Al-Azhar University, Cairo, Egypt.
Dec.,1994 – Aug.,1998	Demonstrator	Department of Mathematics, Faculty of Science, Al-Azhar University, Cairo, Egypt.

PROFESSIONAL EXPERIENCES:

Aug.,2017 – Present	Vice-Dean, <u>Postgraduate studies and Scientific Research Affairs,</u>	College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
Aug.,2017 – Aug.,2018	Vice-Dean,	College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
Aug.,2016 – Aug.,2017	Vice-Dean, <u>Postgraduate studies and Scientific Research Affairs,</u>	College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
April,2014 –Aug.,2016	Assistant of Vice-Rector for Branches <u>Educational and Academic Affairs</u>	Vice-Presidency for Branches, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
May,2012 - April,2014	Assistant of General Supervisor on University Colleges in Wadi Addwassir <u>Educational and Academic Affairs</u>	Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
Oct.,2009 – May,2012	Vice-Dean, <u>Educational and Academic Affairs,</u>	College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
Nov.,2008 – Oct.,2009	Coordinator, <u>Educational and Academic Affairs,</u>	College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
Oct.,2007- April,2009	Head, <u>Department of Mathematics,</u>	College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
Nov.,2008 – May,2012	Coordinator, <u>Time Table Committee ,</u>	College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.
Nov.,2008 – May,2012	Coordinator, <u>Central Examination Committee ,</u>	College of Arts & Science, Prince Sattam bin Abdulaziz University, Wadi Addwassir, , Saudi Arabia,.

JOURNAL PUBLICATIONS:

- Manjur Kolhar, Abdalla Alameen, **Z. M. Gharsseidien** "An Online Lab Examination Management System (OLEMS) to Avoid Malpractice" *Science and Engineering Ethics*, 24(4),(2018), 1367-1369
- El-atty, Saied M. Abd, **Z. M. Gharsseidien**, and K. A. Lizos. "Predictive Reservation for Handover Optimization in Two-Tier Heterogeneous Cellular Networks" *Wireless Personal Communications*, (2018) 98:1637–1661 DOI: 10.1007/s11277-017-4337-6
- SA El-atty, K Lizos, **Z Gharsseidien**, A Tolba, ALM Zafer , "Engineering Molecular Communications Integrated with Carbon Nanotubes in Neural Sensor Nanonetworks" (2018) *IET Nanobiotechnol.*, Vol. 12 Iss. 2, pp. 201-210
- Nisar, K., **Gharsseidien, Z.M.**, & Belgacem, F. "Solution of fractional distributed order reaction-diffusion systems with Sumudu transform." *Nonlinear Studies*, 24(4), (2017), 911-920.
- Saied M. Abd El-atty, **Zakaria M. Gharsseidien**: "Performance analysis of an advanced heterogeneous mobile network architecture with multiple small cell layers.", *Wireless Networks* 05/2017, 23 (4): 1169-1190, DOI: 10.1007/s11276-016-1218-y
- Ahmed, H. Y., **Z. M. Gharsseidien**, and S. A. Aljunid. "Performance Analysis of Diagonal Permutation Shifting (DPS) Codes for SAC-OCDMA Systems" *Journal of information Science and Engineering* 33,(2017): 433-448
- Ahmed, H. Y., **Z. M. Gharsseidien**, and S. A. Aljunid. "An Efficient Method to Construct Diagonal Permutation Shift (DPS) CODES for SAC OCDMA Systems." *Journal of Theoretical and Applied Information Technology* 94.2 (2016): 475.
- Ahmed, Hassan Yousif, K. S. Nisar, **Z. M. Gharsseidien**, and S. A. Aljunid. "An Inclusive Comparison in LAN Environment between Conventional and Hybrid Methods for Spectral Amplitude Coding Optical CDMA Systems. " *INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS* 7, no. 12 (2016): 235-244.
- El-atty, Saied M. Abd, and **Z. M. Gharsseidien**. "Backhaul metro cell-based guard channel in femto/macro cellular heterogeneous networks." *Telecommunication Systems* 61.4 (2016): 645-658.,DOI:10.1007/s11235-015-0059-9
- El-atty, Saied M. Abd, and **Z. M. Gharsseidien**. "Influence of inter-nanoparticle interaction on nanonetworks-based molecular communications." *Optik-International Journal for Light and Electron Optics* 127.5 (2016): 2959-2968.,DOI:10.1016/j.ijleo.2015.10.067
- El-atty, Saied M. Abd, and **Z. M. Gharsseidien**. "Mobile Traffic Offloading in Heterogeneous Networks-Based Small Cell Technology." *Arabian Journal for Science and Engineering* 41.2 (2016): 555-567.,DOI:10.1007/s13369-015-1695-9
- El-atty, Saied M. Abd, **Zakaria M. Gharsseidien**, and Konstantinos A. Lizos. "Framework for single input single output nanonetwork-based realistic molecular communication." *IET nanobiotechnology* 9.6 (2015): 331-341.,DOI:10.1049/iet-nbt.2014.0041
- El-atty, Saied M. Abd, and **Z. M. Gharsseidien**. "Measuring QoS Metrics in Femto/Macro Cellular Networks with CAC Policy." *International Journal of Wireless Information Networks* 22.3 (2015):

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- Saied M. Abd El-atty, **Z. M. Gharseldien**: *Analytical model for mobile user connectivity in coexisting femtocell/macrocell networks.* , International Journal of Wireless & Mobile Networks 4.6,(2012) 61-72; DOI:10.5121/ijwmn.2012.4605
- Bazid, M. A. A., **Gharseldien, Z. M.**, Seddeek, M. A., & Alharbi, M. "Soret and Dufour Numbers effect on heat and mass transfer in stagnation point flow towards a stretching surface in the presence of Buoyancy force and variable thermal conductivity." *Journ. of Computations & Modelling* 2.4 (2012): 25-50.
- **Z. M. Gharseldien**, Kh. S. Mekheimer, A. S. Awad: *The Influence of Slippage on Trapping and Reflux Limits with Peristalsis through an Asymmetric Channel.* Applied Bionics and Biomechanics 06/2010; 7(2-2):95-108. DOI:10.1080/11762321003747099
- **Z. M. Gharseldien**, K. Hemida: *New technique to avoid "noise terms" on the solutions of inhomogeneous differential equations by using Adomian decomposition method.* Communications in Nonlinear Science and Numerical Simulation 03/2009; 14(3):685-696. DOI:10.1016/j.cnsns.2007.11.018
- E. F. Elshehawey, **Z. M. Gharseldien**: *Peristaltic transport of three-layered flow with variable viscosity.* Applied Mathematics and Computation 06/2004; 153(2):417-432. DOI:10.1016/S0096-3003(03)00642-8

CONFERENCES PUBLICATIONS:

- Saied M Abd, **Z M Gharseldien**, Konstantinos Lizos: On Performance of SISO Nanonetworks-based Molecular Communications. 6th International Conference on New Technologies, Mobility and Security (NTMS), 2014; 05/2014, DOI:10.1109/NTMS.2014.6814038
- S.M. Abd El-atty, **Z.M. Gharseldien**: On performance of HetNet with coexisting small cell technology. Wireless and Mobile Networking Conference (WMNC), 2013 6th Joint IFIP; 01/2013
- El-atty, Saied M. Abd, and **Z. M. Gharseldien**. "Mobile user connectivity performance with coexisting femtocell networks." High Capacity Optical Networks and Enabling Technologies (HONET), 2012 9th International Conference on. IEEE, 2012.