



**CURRICULUM VITAE**  
for  
**Dr/ Amal Soliman Hassan**  
**Professor of Mathematical Statistics**  
**Faculty of Graduate Studies for Statistical**  
**Research**  
**Cairo University**

**PERSONAL INFORMATION**

**Name** : Amal Soliman Hassan Abd-Alla  
**Present Address** : Faculty of Graduate Studies for Statistical Research  
FGSSR, Cairo University, 5 Zewail Street, Orman  
Giza, Egypt, 12613.  
**E- Mail** : dr.amalelmoslamy@gmail.com  
**Tel.** 33353161--3351449  
**Fax** 37482533

**Education:**

<b>Name and Location of Institution</b>	<b>Degree</b>	<b>Major Field</b>	<b>Year</b>
<b>Faculty of Science, Ain Shames, University, Egypt</b>	<b>B. Sc</b>	<b>Mathematical Statistics</b>	<b>1984</b>
<b>Faculty of Science, Ain Shames, University, Egypt</b>	<b>M.SC</b>	<b>Mathematical Statistics</b>	<b>1989</b>
<b>Faculty of Graduate Studies for Statistical Research</b>	<b>Ph.D</b>	<b>Mathematical Statistics</b>	<b>1999</b>
<b>Faculty of Graduate Studies for Statistical Research</b>	<b>Assistant Professor</b>	<b>Mathematical Statistics</b>	<b>1999</b>
<b>Faculty of Graduate Studies for Statistical Research</b>	<b>Associate Professor</b>	<b>Mathematical Statistics</b>	<b>2006</b>
<b>Faculty of Graduate Studies for Statistical Research</b>	<b>Professor</b>	<b>Mathematical Statistics</b>	<b>2013</b>

**Title of M.Sc. Thesis:**

**“Probabilistic Analysis of Some Models of Redundant system”**

**Title of Ph.D. Thesis:**

**“Testing and Estimation problems concerning the Generalized life Testing Model”**

### **Professional Experience**

1. From 1985 to 1989: Demonstrator at Cairo University and graduate student for M.Sc. Degree at Faculty of Science, Ain Shames University.
2. From 1989 to 1999: Assistant Lecturer and graduate student to study for a Ph.D. degree at Cairo University.
3. From 1999 to 2006: Assistant professor at the Department of Mathematical Statistics, Institute of Statistical Studies & Research, Cairo University
4. From March 2006 : Associate professor at the Department of Mathematical Statistics, Institute of Statistical Studies & Research, Cairo University,
5. From Dec 2006 to June 2012: Associate Professor of Mathematical statistics at the Faculty of Science, King Abd-Alziz Univeristy, Saudia Arabia.
6. From July 2012 up to January 2013: Associate Professor at the Department of Mathematical Statistics, Faculty of Graduate Studies & Statistical Research, Cairo University.
7. From February 2013 up to now: Professor at the Department of Mathematical Statistics, Faculty of Graduate Studies & Statistical Research, Cairo University.
8. From January 2015 up to June 2015: Associate Editor of the Egyptian Statistical Journal.
9. From January 2018- July 2021 Vice Dean for Community Service & Environmental Development, Faculty of Graduate Studies & Statistical Research, Cairo University.
10. عضو اللجنة العلمية للانتاج العلمى لشغل وظائف الاساتذة والاساتذة المساعدين الدورة الثالثة عشر (2019-2021) الدراسات الإحصائية

### **Session Chaired**

The 39<sup>th</sup> , 40<sup>th</sup> , 48<sup>th</sup> , 49<sup>th</sup> and 50<sup>th</sup> Annual Conference in Statistics, Computer Science and Operation Research, Institute of Statistical Studies And Research, Cairo University.

امين عام المؤتمر السنوي الثالث والخمسين والرابع والخمسون للإحصاء وعلوم الحاسب  
وبحوث العمليات

Organizing 53<sup>th</sup> and 54<sup>th</sup> Annual Conference in Statistics, Computer Science and  
Operation Research, Annual Conference in Statistics, Computer Science and  
Operation Research.

### Courses Taught

#### M.SC:

Order Statistic, Non-Parametric test and Life testing, Stochastic Processes,  
Advanced Probability, and Reliability theory.

#### Ph.D:

Special Function

#### Diploma:

Statistical Analysis, General Statistics, Descriptive Statistics, Probability and  
statistical distributions, Theory of Distribution II, Mathematics, Linear Algebra.

#### B.SC:

Descriptive Statistics and Statistical Analysis, Theory of Probability,  
Hypothesis Testing, Sampling Theory, Industrial Statistics.

### List of Published Papers

1. Hassan, A.S, Elshaarawy, R.S., Onyango, R. and Nagy, H.F. (2022)  
Estimating System Reliability Using Neoteric and Median RSS Data for  
Generalized Exponential Distribution, International Journal of  
Mathematics and Mathematical Sciences, [https://doi.org/10.1155/2022/  
2608656](https://doi.org/10.1155/2022/2608656)
2. Shrahili, M., El-Saeed, A.R., Hassan, A.S., Elbatal, I., and Elgarhy, M.  
(2022). Estimation of Entropy for Log-Logistic Distribution under  
Progressive Type II Censoring. Journal of Nanomaterials,  
[doi.org/10.1155/2022/2739606](https://doi.org/10.1155/2022/2739606).
3. Hassan, A.S., Mohamed, R.E., Kharazmi O., and Nagy, H.F. (2022). A  
New Four Parameter Extended Exponential Distribution with Statistical  
Properties and Applications. Pakistan Journal of Statistics and Operation  
Research, 18(1), 179-193.
4. Al-Dayel, I., Alotaibi, N., Elbatal, I., Aidi, K. and Hassan, A.S. (2022).  
Modelling to Covid-19 Data in Saudi Arabia Using: A New Xgamma  
Model. Advances and Application in Statistics, [doi.org/ 10. 17 654 /09 72  
361722023](https://doi.org/10.17654/0972361722023), 74, 145-166.

5. Hassan, A.S., and Nagy, H.F. (2022). Reliability Estimation in Multicomponent Stress Strength for Generalized Inverted Exponential Distribution Based on Ranked Set Sampling. *Gazi University Journal of Science*, 35 (1), 314-331.
6. Hassan, A.S., El-Sherpieny, E.A. and Mohamed, R.E (2022). Classical and Bayesian Estimation of Entropy for Pareto Distribution in Presence of Outliers with Application. *Sankhya A: The Indian Journal of Statistics*<https://doi.org/10.1007/s13171-021-00274-z>.
7. Hassan, A.S., El-Sherpieny, E.A. and Mohamed, R.E (2022). Estimation of information measures for power-function distribution in presence of outliers and their applications. *Journal of Information and Communication Technology*, 21(1), 1-25. <https://doi.org/10.32890/jict2022.21.1.1>
8. Helmy, B.A., Hassan, A.S., and El-Kholy A.K. (2021). Analysis of uncertainty measure using unified hybrid censored data with applications. *Journal of Taibah University for Science*, 15 ( 1), 1130–1143, [/doi.org/10.1080/16583655.2021.2022901](https://doi.org/10.1080/16583655.2021.2022901).
9. Al-Omari , A. i., Hassan, A.S., Alotaibi, N., Shrahili , M., and Nagy, H.F. (2021). Reliability Estimation of Inverse Lomax Distribution Using Extreme Ranked Set Sampling. *Advances in Mathematical Physics*, <https://doi.org/10.1155/2021/4599872>.
10. Metwally, A. S. M. Hassan, A. S., Almetwally, E. M. Kibria, B M G. and Almongy, H. M. (2021). Reliability Analysis of the New Exponential Inverted Topp–Leone Distribution with Applications, *entropy*, 23, 1662. <https://doi.org/10.3390/e23121662>
11. Hassan, A.S., Assar, A.M., Ali, K.A. and Nagy, H. F. (2021). Estimation of the density and cumulative distribution functions of the exponentiated Burr XII distribution. *STATISTICS IN TRANSITION new series*, 22(4), 171–189.
12. Hassan, A.S., and Ismail, D. (2021). Parameters of Topp-Leone Inverse Lomax Distribution in Presence of Right Censored Samples. *Gazi Univeristy Jouranl of Science*, 34(4), 1193-1208.
13. Almarashi, A. M., Algarni, A., Hassan, A.S., Elgarhy, M., Jamal, F., Chesneau, C., Alrashidi, K., Mashwani, W. K., and Nagy. H.F. (2021). A new estimation study of the stress-strength reliability for the Topp–

- Leone distribution using advanced sampling methods. *Scientific Programming*, <https://doi.org/10.1155/2021/2404997>, 1-13.
14. Almarashi, A.M., Algarni, A., Hassan, A.S., Zaky, A.N. and Elgarhy, M. (2021). Bayesian Analysis of Dynamic Cumulative Residual Entropy for Lindley Distribution. *Entropy*, 23, 1256. <https://doi.org/10.3390/e23101256>
  15. Algarni, A., Almarashi, A.M., Elbatal, I., Hassan, A.S., Almetwally, E. M., Daghistani, A.M. and Elgarhy, M. (2021). Type I Half Logistic Burr X-G Family: Properties, Bayesian, and Non-Bayesian Estimation under Censored Samples and Applications to COVID-19 Data. *Mathematical Problems in Engineering*, 5461130, 21 pages <https://doi.org/10.1155/2021/5461130>
  16. Al-Omari, A.I., Hassan, A.S., Nagy, H.F., Al-Anzi, A.R.A., and Alzoubi, L. (2021). Entropy Bayesian Analysis for the Generalized Inverse Exponential Distribution Based on URRSS. *Computers, Materials & Continua*, DOI:10.32604/cmc.2021.019061.
  17. Hassan, A.S., Khaleel, M.A., and Mohamed, R.E. (2021). An Extension of Exponentiated Lomax distribution with Application to Lifetime Data. *Thailand Statistician*, 19(3), 484-500.
  18. Bantan, R. Elsehetry, M. Hassan, A.S., Elgarhy, M., Sharma, D., Chesneau, C. and Jamal, F. (2021). A Two-Parameter Model: Properties and Estimation under Ranked Sampling. *MDPI Mathematics*,9,1214. <https://doi.org/10.3390/math9111214>.
  19. Bantan, R., Hassan, A.S., Almetwally, E., Elgarhy, M., Jamal, F., Chesneau, C. and Elsehetry, M. (2021). Bayesian Analysis in Partially Accelerated Life Tests for Weighted Lomax Distribution. *Computers, Materials & Continua*, 68 (3), 2859– ( DOI:10.32604/cmc.2021.015422
  20. Hassan, A.S., Almetwally, E.M., Khaleel, M.A., Nagy, H.F. (2021). Weighted Power Lomax Distribution and its Length Biased Version: Properties and Estimation based on Censored Samples. *Pakistan Journal of Statistics and Operation Research*, 17(2), 343-356.
  21. Hassan, A.S. and Nassr, S.G. (2021). Parameter estimation of an extended inverse power Lomax distribution with Type I right censored data. *Communications for Statistical Applications and Methods*, 28 (2), 99–118.
  22. Hassanı, A.S., El-Sherpienyı, E.A. and El-Taweelı, S.A. (2021). New Topp Leone-G Family with Mathematical Properties and Applications.

23. Ahmadini, A.A.H., Hassan, A.S., Mohamed, R.E., Alshqaq, S.S. and Nagy, H.F. (2021). A New Four-Parameter Moment Exponential Model with Applications to Lifetime Data. *Intelligent Automation & Soft Computing*, 29 (1), 131-146
24. Ahmadini, A.A.H., Hassan, A.S., Elgarhy, M., Elsehetry, M., Alshqaq, S.S. and Nassr, S. G. (2021). Inference of Truncated Lomax Inverse Lomax Distribution with Applications. *Automation & Soft Computing*, 29 (1), 199-212.
25. Ibrahim, G. M., Hassan, A.S. Almetwally, E. M. and Almongy, H.M. (2021). Parameter Estimation of Alpha Power Inverted Topp-Leone Distribution with Applications, *Intelligent Automation & Soft Computing*, 29(2), 353-371, DOI:10.32604/iasc.2021.017586.
26. Hassan, A. S. and Assar, S.A. (2021). A New Class of Power Function Distribution: Properties and Applications. *Annals of Data Science*, 8(2), 205-225
27. Al-Babtain, A.A., Hassan, A.S. Zaky, A.N., Elbatal, I. and Elgarhy, M. (2021). Dynamic cumulative residual Rényi entropy for Lomax distribution: Bayesian and non-Bayesian methods, *AIM Mathematics*, 6(3), 3889-3914.
28. Hassan, A.S., Khaleel, M.A. and Nassr, S. G. (2021). Transmuted Topp-Leone Power Function Distribution: Theory and Application. *Journal of Statistics Applications & Probability*, 10 (1), 215-227.
29. Hassan, A.S., Al-Omar, A. I., Ismail, D. M. and Al-Anzi, A. (2021). A new generalization of the inverse Lomax distribution with statistical properties and applications. *International Journal of Advanced and Applied Sciences*, 8(4), 89-97
30. Hassan, A.S., Almetwally, E.M. and Ibrahim, G.M. (2021). Kumaraswamy Inverted Topp–Leone Distribution with Applications to COVID-19 Data. *Computers, Materials & Continua*, 68(1), 337-356, DOI:10.32604/cmc.2021.013971.
31. Hassan, A.S., Assar, S.M. and Abd Elghaffar, A.M. (2021). Bayesian Estimation of Power Transmuted Inverse Rayleigh Distribution. *Thailand Statistician*, 19(2), 393-410

32. Hassan, A.S. and Zaki, A.N. (2021). Entropy Bayesian Estimation for Lomax Distribution Based on Record. *Thailand Statistician*, 19(1), 96-115
33. Hassan, A.S., Al-Omari, A.I., and Nagy, H. F. (2021). Stress–Strength Reliability for the Generalized Inverted Exponential Distribution Using MRSS. *Iranian Journal of Science and Technology, Transactions A: Science*, [https://doi.org/10.1007/s40995-020-01033-9\(0123456789\)](https://doi.org/10.1007/s40995-020-01033-9(0123456789)), 45:641–659.
34. Abushal, T.A., Hassan, A.S., El-Saeed A.R. and Nassr, S.G. (2021). Power Inverted Topp–Leone Distribution in Acceptance Sampling Plans. *Computers, Materials & Continua*, 67(1), 991–1101, DOI: 10.32604/cmc.2021.014620
35. Hassan, S.S., Hemedat, S.E. and Nasr, S.G. (2020). On the Extension of Exponentiated Pareto Distribution. *Journal of Modern Applied Statistical Methods*, 19(1), eP3021. doi: 10.22237/jmasm/1619481840
36. Hassan, A.S., Sabry, M.A.H., and Elsehery, A.M. (2020). A New Probability Distribution Family Arising from Truncated power Lomax Distribution with Application to Weibull Model. *Pakistan Journal of Statistics and Operation Research*, 16(4), 661-674
37. Ahmadini, A.A.H., Hassan, A.S., Zaki, A.N. and Alshqaq, S.S. (2020). Bayesian Inference of Dynamic Cumulative Residual Entropy from Parto II distribution with Application to Covid 19. *AIM Mathematics*, 6(3), 2196-2216
38. Hassan, A.S., Nagy, H.F., Muhammed, H.Z. and Saad, M.S (2020). Estimation of Multicomponent Stress-Strength Reliability Following Weibull Distribution Based on Upper Record Values. *Journal of Taibh University of Sciences*, 14(1), 244–253
39. Al-Omari, A.I., Almanjahie, I.M., Hassan, A.S., and Nagy, H.F. (2020). Estimation of the Stress-Strength Reliability for Exponentiated Pareto Distribution Using Median and Ranked Set Sampling Methods. *Computers, Materials & Continua*, 64(2), 835-857
40. Bantan, R., Hassan, A.S. and Elsehetry, M. (2020). Generalized Marshall Olkin Inverse Lindley Distribution with Applications.. *Computers, Materials & Continua*, 64(3), 1505-1525.
41. Bantan, R., Hassan, A.S. and Elsehetry, M. (2020). Zubair Lomax Distribution: Properties and Estimation Based on Ranked Set Sampling. *Computers, Materials & Continua*, 65(3), 2169-2187.

42. Hassan, A.S., Assar, S.M. and Abd Elghaffar, A.M. (2020). Statistical properties and estimation of power-transmuted inverse Rayleigh distribution. *STATISTICS IN TRANSITION new series*, 21(3), 1-20,
43. Hassan, A.S., Nagy, H. F., Muhammed, H.Z. and Saad, M. S (2020). Estimation of Multicomponent Stress-Strength Reliability Following Weibull Distribution Based on Upper Record Values. *Journal of Taibh University of Sciences*, 14(1), 244–253
44. Hassan, A.S., Elgarhy, M. and Mohamed, R.E. (2020). Statistical Properties and estimation of type II half logistic Lomax distribution. *Thailand Statistician*, 18(3): 290-305
45. Bantan, R. Hassan, A.S., Elsehetry, M., and Golam Kibria, (2020). Half-Logistic Xgamma Distribution: Properties and Estimation under Censored Samples. *Discrete Dynamics in Nature and Society*, <https://doi.org/10.1155/2020/9136513>
46. Hassan, A.S., Nassar, S.G.. (2020). A New Generalization of Power Function Distribution: Properties and Estimation based on Censored Samples. *Thailand Statistician*, 18(2): 215-234
47. Hassan, A.S., Sabry, M., A. and Elsehetry, A. M. (2020). Truncated Power Lomax Distribution with Application to Flood Data. *Journal of Statistics Applications & Probability*, 9(2), 347-359
48. Hassan, A.S., Sabry, M., A. and Elsehetry, A. M. (2020). A New Family of Upper-Truncated Distributions: Properties and Estimation. *Thailand Statistician*, 18(2): 196-214
49. Hassan, A.S., Elgarhy, M., and Ragab, R. (2020). Statistical Properties and Estimation of Inverted Topp-Leone Distribution. *Journal of Statistics Applications & Probability*, 9(2), 319-331
50. Hassan, A.S., Pramanik, S., Maiti, S. and Nassr, S.G. (2020). Estimation in Constant Stress Partially Accelerated Life Tests for Weibull Distribution Based on Censored Competing Risks Data, *Annals of Science*, 7(1):45–62
51. Hassan, A.S., Abdul-Moniem, I.B. and Gad, K.A.E. (2020). A Generalized Transmuted Moment Exponential Distribution: Properties and Application, *Academic Journal of Applied Mathematical Sciences*, 6(5), 41-52.



52. Hassan, A.S., Assar, S.M. and Selmy, A.S. (2019). Estimation of the Lifetime Performance Index with Burr Type III Distribution Under Type II Censoring, The 54<sup>th</sup> Annual Conference on Statistics, Computer Sciences and Operation Research, 9-11 Dec,34-49.
53. Hassan, A.S., and Mohamed, R.E (2019). Parameter Estimation of Inverse Exponentiated Lomax with Right Censored Data. Gazi Univeristy Jouranl of Science, 32(4), 1370-1386.
54. Jamal, F., Elbatal, I, Chesneau, C., Elghary, M., and Hassan, A.S., (2019). Modified Beta Generalized Linear Failure Rate Distribution: Theory and Applications. Journal of Prime Research in Mathematics 15, 21-48.
55. Hassan, A.S., Elgarhy, M., and Ahmad, Z. (2019). Type II Generalized Topp–Leone Family of Distributions: Properties and Applications. Journal of Data Science, 17(4), 638-659
56. Elghary, M., Elbatal, I, Hamedani, and Hassan, A.S. (2019). On the Exponentiated Weibull Rayleigh distribution. Gazi University Journal of Science, 32(3), 1060-1081.
57. Hassan, A.S., and Mohamed, R.E (2019). Weibull inverse Lomax distribution. Pakistan journal of Statistics & Operation Research, 15(3), 587-603.
58. Hassan, A.S., and Zaky, H.A. (2019). Estimation of Entropy for Inverse Weibull Distribution under Multiple Censored Data. Journal of Taibh University of Sciences, 13(1), 331-337.
59. Hassan, A.S., Elghary, M. (2019). Exponentiated Weibull Weibull: Statistical Properties and Applications. Gazi Univeristy Journal of Sciences, 32(2), 616-635.
60. Hassan, A.S., Elsherpieny, E.A., Mohamed, R.E. (2019). Odds Generalized Exponential-Power Function Distribution: Properties & Applications. Gazi University Journal of Science, 32(1), 351-370.
61. Hassan, A.S., and Abd-Alla, M. (2019). On the Inverse Power Lomax. Annals of Data Science, 6(2):259–278
62. Hassan, A.S., Mohamed, R. E., Elgarhy, M. and Fayomi, A. (2019). Alpha Power Transformed Extended Exponential Distribution: Proprties and Applications. Journal of Non-Linear Sceinces and Applications, 12, 239-251

63. Hassan, A.S. and Nassar, S.G. (2019). Power Lindley- G family. *Annals of Data Science*, 6(2), 189–210
64. Hassan, A.S., Elgarhy, M., and Haq, M.A. and Alrajhi, S. (2019). On Type II Half Logistic Weibull Distribution with Applications. *Mathematical Theory and Modeling*, 19(1), 49-63.
65. Hassan, A.S., Mohamed, R.E. Elgarhy, M. and Alrajhi, S. (2019). On the Alpha Power Transformed Power Lindley Distribution. *Journal of Probability and Statistics*, 1-13, <https://doi.org/10.1155/2019/8024769>.
66. Hassan, A.S., Elgarhy, M., Nassr, S. G. and Alrajhi, S. (2019). Truncated Weibull Frèchet Distribution: Statistical Inference and Applications. *Journal of Computational and Theoretical Nanoscience*, 16,1-9.
67. Elgarhy, M., Hassan, A.S., and Fayomi, S. (2018). Maximum Likelihood and Bayesian Estimation for Two-Parameter Type I Half Logistic Lindley Distribution. *Journal of Computational and Theoretical Nanoscience*, 15,1-9.
68. Hassan, A.S., Mohamed, R.E. Elgarhy, M. and Fayomic, A. (2018). Alpha Power Transformed Extended Exponential Distribution: Properties and Applications. *Journal of Non-Linear Sciences & Applications*, 12, 239- 251.
69. Haq, M.A. Almarashi, A. M., Hassan, A.S., and Elgarhy, M. (2018). Type II Half Logistic Rayleigh: Properties & Estimation Based on Censored Samples. *Journal of Advances in Mathematics and Computer Science*, 19(2), 1-19
70. Hassan, A.S., and Nassr, S.G. (2018). The inverse Weibull generator of distributions: properties and applications. *Journal of Data Sciences*, 16(4), 732-742.
71. Hassan, A.S., Abd-Alla, M. and Nagy, H.F. (2018). Estimation of  $P(Y < X)$  using record values from the generalized inverted exponential distribution. *Pakistan Journal of of Statistics & Operation Research*, 14(3), 645-660.
72. Hassan, A. S., Abd-Alla, M. and Nagy, H. F. (2018). Bayesian Analysis of Record Statistics Based on Generalized Inverted Exponential Model. *International Journal of Advanced Science Engineering and Information Technology*, 8(2), 323-335.

73. Hassan, A.S. and Abd-Alla, M. (2018). Exponentiated Weibull-Lomax Distribution: Properties and Estimation. *Journal of Data Sciences*, 16(2), 275-298
74. Hassan, A.S., Abd-Elfattah, A.M, Hassan, M. M. (2018). Bayesian Analysis for Mixture of Burr XII and Burr X distribution. *Far East Journal of Mathematical Sciences*, 103(6), 1031-1041
75. Elgarhy, M., Elbatal, I., ul Haq, M. A., Hassan, A.M. (2018). Transmuted Kumaraswamy Quasi Lindley Distribution with Applications. *Annals of Data Science*, 5(4), 565-581.
76. Hassan, A.S., Elsherpieny, E.A., Mohamed, R.E. (2018). Odds Generalized Exponential-Inverse Weibull Distribution: Properties & Estimation. *Pakistan Journal of Statistics&Operation Research*, 14(1), 1-22.
77. Hassan, A.S. and Nassr, S.G. (2018). Power Lomax Poisson distribution: Properties and Estimation. *Journal of Data Sciences*, 16(1), 105-128.
78. Hassan, A. S. and Assar, S. M. (2017).The Exponentiated Weibull-Power Function Distribution. *Journal of Data Sciences*. 15(4), 589-614.
79. Hassan, A.S. and Abd-Alla, M. and El-Elaa, H. G.A. (2017). Estimation in step stress partially accelerated life test for exponentiated Pareto distribution under progressive censoring with random removal. *Journal of Advances in Mathematics and Computer Science*, 25(1), 1-16.
80. Hassan, A.S. and Abd-Alla, M. (2017). Exponentiated Lomax Geometric Distribution: Properties and Applications. *Pakistan Journal of Statistics &Operation Research*, 13(3), 545-566.
81. Hassan, A.S., Elgarhy, M., and Shakil, M. (2017). Type II half Logistic family of distributions with applications. *Pakistan Journal of Statistics &Operation Research*, 13(2), 245-264.
82. Hassan, A.S., Hemeda, S. E., Maiti, S.S. and Pramanik, S., (2017). The generalized additive Weibull-G family of probability distributions. *International Journal of Statistics and Probability*, 6(5), 65-83.
83. Hassan, A.S., Hemeda, S.E., (2016). The Additive Weibull-G Family of Probability Distributions. *International Journals of Mathematics and Its Applications*. 4(2), 151-164.

84. Hassan, A.S., Abd-Elfattah, A.M, and. Hussein A.M. (2016). The Complementary Exponentiated Inverted Weibull Power Series Family of Distributions and its Applications. *British journal of Mathematics & Computer Science*. 13(2), 1-20.
85. Hassan, A.S. and Elgarhy, M., (2016). Kumaraswamy Weibull-Generated Family of Distributions with Applications. *Advances and Applications in Statistics*, 48(3), 205-239.
86. Hassan, A.S. and Elgarhy, M., (2016). A new Family of Exponentiated Weibull-Generated distributions. *International Journals of Mathematics and Its Applications*, 4(1), 135-148.
87. Hassan, A.S., Elbatal, I. and Hemeda, S.E. (2016). Weibull Quasi Lindley Distribution and its Statistical Properties with Applications to lifetime data, *International Journal of Applied Mathematics and Statistics* 55(3), 63-80.
88. Hassan, A.S., M.S. Assar and Ali, K. A. (2016). The Compound Family of Generalized Inverse Weibull Power Series Distributions. *British journal of Applied Sciences & Technology*, 14(3), 1-18.
89. Hassan, A.S., M.S. Assar and A. Shelbaia (2016). Optimum Step-Stress Accelerated Life Test Plan for Lomax Distribution with an Adaptive Type-II Progressive Hybrid Censoring. *Journal of Advances in Mathematics and Computer Science*. 13(2), 1-19.
90. Elgarhy, M., Hassan, A.S., and Rashed, M. (2016). Garhy-generated family of distributions with application. *Mathematical Theory and Modeling*, 6(2), 1-15.
91. Hassan, A.S., Abd-Elfattah, A.M, and. Hussein A.M. (2015). The Complementary Burr III Poisson Distribution. *Australian Journal of Basic and Applied Sciences*. 9 (11), 219-228.
92. Hassan, A.S., Muhammed, H.Z. and Saad, M.S (2015). Estimation of Stress-Strength Reliability for Exponentiated Inverted Weibull Distribution Based on Lower Record Values. *British journal of Mathematics & Computer Science*. 11(2), 1-14

93. Hassan, A.S., M.S. Assar and Ali, K. A. (2015). Complementary Poisson-Lindley Class of Distributions. *International Journal of Advanced Statistics and Probability*, 3(2), 146-60.
94. Hassan, A.S., M. S. Assar and M. Yahya (2015). Estimation of  $P[Y < X]$  for Burr Type XII Distribution under Several Modifications for Ranked Set Sampling. *Australian Journal of Basic and Applied Sciences*. 9 (1), 124-140.
95. Abd-Elfattah, A.M, Hassan, A.S. and Nassar S.G. (2015). Bayesian Estimation Based on Generalized Order Statistics from Exponentiated Weibull Poisson Model. *International Journal of Advanced Statistics and Probability*, 3(1), 43-52.
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- Conference On Statistics, Computer Sciences And Operations Research, Institute Of Statistical Studies Research, Cairo University. 25-39.
110. Abd-Elfattah, A.M, Hassan, A.S. and Nassar S.G. (2013) Maximum Likelihood Estimation of the Parameters for the Exponentiated Weibull Poisson Distribution Based on Generalized Order Statistics. Proceeding of the 48<sup>th</sup> Annual Conference On Statistics, Computer Sciences And Operations Research, Institute Of Statistical Studies Research, Cairo University, 40-56.
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128. Hassan A.S. (2004). Sampling distribution for the K-TH order statistics from the generalized Gumbel distribution. *The Egyptian Statistical Journal, Institute Of Statistical Studies Research, Cairo University*, 48(1), 1-11.
129. Hassan A.S. and Riad, H.M. (2004). A comparative study for estimators of the three parameter Weibull distribution. *The Annual Conference On Statistics, Computer Sciences And Operations Research, Institute Of Statistical Studies Research, Cairo University* 39, 25-39.
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**LIST OF Ph.D. & M.Sc. THESES  
SUPERVISED BY ME  
A: Degree Awarded**

<b>1. M.Sc. THESES</b>		
1	<b>A Hybrid Moments Estimators</b> By Hesham Riad (Cairo University)	2005
2	<b>Efficiency of estimators for different censored sampling schemes</b> By: Dalya Mahmoud Ziedan (Cairo University )	2005
3	<b>Estimation of the Generalized Exponential Distribution by the Method of Partial Probability Weighted Moments</b> By: Suzan Allam. (Cairo University)	2007
4	<b>The Estimation Problems of Lifetime Model under Partially Accelerated Life Tests</b> By: Said Gamal Nassr (Cairo university )	2008
5	<b>Bayesian and Non-Bayesian Estimation of <math>P[Y &lt; X]</math> for Exponentiated Weibull distribution</b> By: Dawlat -Sulami (King Abd -Alziz )	2008
6	<b>Optimum Simple Step-Stress Accelerated Life Testing for Some</b>	

	<b>Lifetime Models</b> By: Amani Alghamdi (King Abd -Alziz University)	2009
7	<b>Planning Step Stress Accelerated Life Tests for Generalized Exponential Lifetime Model with Censoring</b> By: Marimum Khan. (King Abd -Alziz University)	2012
8	<b>Statistical Inferences and Optimal Design in Step Stress Partially Accelerated Life Tests for the Inverted Weibull Distribution with Censoring</b> By: Abeer Khenifis Al-Thobety (King Abd-Alziz University)	2012
9	<b>Estimation Of System Reliability in Multi-Component Stress-Strength Models Following Exponentiated Pareto Distribution</b> By: Heba Mohammed Basheikh (King Abd-Alziz University)	2012
10	<b>Goodness of fit tests for Weibull Distribution Based on Simple Random samples and Ranked Set samples</b> By: Amal (King Abd-Alziz University)	2012
11	<b>Modified Goodness of Fit Tests Based on Ranked Set Sampling</b> By: Heba Fathy Mohamed (Cairo University )	April (2014)
12	<b>Estimation Problems Concerning Exponentiated Burr Type III Distribution</b> By: Mostafa Abdelhamied Mohamed (Cairo University)	August (2015)
13	<b>Constant-Stress Partially Accelerated Life Tests of Lifetime Model under Censoring</b> By: Ahmed Nasser Zaky (Cairo University)	July (2015)
14	<b>A Compound Class of Lifetime Distributions</b> By: Kareem Ahmed Ibrahim Ali (Cairo University)	May (2016)
15	<b>Estimation Problems for Stress Strength Model through Record Values</b> By: Mohamed Salah Esmail (Cairo University)	June (2016)
16	<b>Moment-Determinate and Indeterminate Probability Distributions</b> By: Fatma Mohammed Montaser (Cairo University)	November (2016)
17	<b>Partially accelerated life testing models based on censoring samples</b> By: Hamdey Goma (Cairo University)	November (2017)
18	<b>On The Odds Of Generalized Exponential Family</b> By Rokaya Elmorsy Mohamed(Cairo University)	February (2018)
19	<b>On the inverse Lomax Distribution</b> By: Doaa Mohammed Ismail(Cairo University)	September (2018)
20	<b>On the Power transformation of som probability Distributions</b> By: Ahmed Mohamed Abd Elghaffar	September (2019)
21	<b>Parameters Estimation For Mixture Distributions Through Grouped Data</b> By: Eman Al- Saeed Shehata	November (2019)
22	<b>Estimation of Product Lifetime Performance Index under Censoring Schemes</b> By: Amany Selmy Attia Mohamed	January (2020)
23	<b>On The Inverse Power Lindley Distribution</b> By: Asmaa El-sayed Abd-Elrahman(Cairo University)	August (2020)

24	<b>On Inverted Probability Distributions</b> By: Randa Ragab Hassan(Cairo University)	October (2020)
25	<b>Reliability Estimation of Some Weighted Distributions Using Censored Samples</b> By: Samah Ahmed Abd Alhamed(Cairo University)	November (2020)
26	<b>On The Generalization of Transmuted Distributions</b> By: Khater Abdelhameed Gadelrab	November (2020)
27	<b>On Inverse Weibull-Generated Family</b> By: Yostina Shehata Morgan	May (2021)
28	<b>New Generalization of Fréchet Distribution</b> By: Mahmoud Mohamed Hamed	October (2021)
29	<b>Parameters Estimation For Pareto-Poisson Distribution</b> By Eman Nedal Mohamed (Cairo University)	October (2021)

**(2) Ph.D. Theses:**

1	<b>Estimation of Reliability in “Stress- Strength” models in the Presence of Outliers</b> By: Rania Shalaby (Cairo University)	April (2014)
2	<b>On Estimation of the Exponentiated Type Distributions Based on Grouped Data</b> By: Marwa Abd-Alha(Cairo University)	August(2014)
3	<b>New Application of Generalized Probability Weighted Moments for Some Distributions</b> By: Neema Mohamed Elharoun(Cairo University)	January(2015)
4	<b>Optimal Design for Some Accelerated Life Tests Plans</b> By: Amira Mohamed Fathy(Cairo University)	June(2015)
5	<b>Estimation Problems for Stress-Strength Model Using Ranked Set Sampling</b> By Marwa Yahya Ramdan (Cairo University)	September (2015)
6	<b>On Mixture of Probability Distributions</b> By: Asmaa Hussein Mokhtar (Cairo University)	October(2015)
7	<b>Bayesian and Non-Bayesian Estimation Based on Generalized Order Statistics for Lifetime Distribution</b> By Said Gamal Nassr Mohammed (Cairo University)	August(2015)
8	<b>Contributions to a Family of Generated Distributions</b> By Mohammed Elghary (Cairo University)	October(2017)
9	<b>A new family of distributions related to Weibull distribution</b> By: Saeed Hemda (Cairo University)	October(2017)
10	<b>On Generalized Mixture for Burr Family</b> By: Maisaa Mohamed Mohamed Hassan	April(2018)
11	<b>A Contribution to Record Values</b> By: Heba Fathy Mohamed Ibrahim Nagy	November (2018)
12	<b>A Class of Truncated Distributions</b> By: Ahmed Mohamed Mahmoud Elsehetry(Cairo University)	December (2020)

13	<b>On Estimating Entropy For Probability Distributions</b> By: Ahmed Nasser Zaky (Cairo University)	December (2020)
14	<b>A Proposed Framework for an Integration between the Guidelines of (NAQAEE) and the Governmental Excellence (An application on Faculties of Alexandria University</b> By: Rehab Mohamed Mustafa Shaarawy	August (2021)
15	<b>Effect of HEdPERF on Students Satisfaction and Academic Performance in Private Egyptian Universities, Mediating Role of Attitude Towards Learning (Application to the Arab Academey for Science, Techonlogy and Maritime Transport)</b> By: Lamia Hosny Mohamed(Cairo University)	September (2021)
16	<b>A New Family of Probability Distribution and its Application</b> By: Samah Ali Hessian El-Taweel (Cairo University)	October (2021)

### **B: In Progress**

<b>1. M.Sc. THESES</b>		
1	<b>Inference and Optimal Censoring Schemes for Power Lindley distribution</b> By: Menna Ossama Ahmed (Cairo University)	2017
2	<b>On Goodness of Fit Tests for Weibull Pareto Distribution</b> By:Hend Farouk Mohamed(Cairo University)	2018
3	<b>Bayesian Inference for Competing Risks Models under Censoring Schemes</b> By: Rana Mahmoud Moussa Mohamed	2020
4	<b>Scalable Variational Inference</b> By: Mohamed Ahmed Abd Elhaliem Elsourogi	2020
5	<b>On Some Distributions Related to the Power Series Distribution</b> By: Omnia Adel Mohamed Sayed Ahmed	2022
6	<b>A New Class of Compound distributions: Theory and Application</b> By: Amany Gameel Ahmed Mohamed Faculty of Science - Al-Azhar University	2022

<b>(2) Ph.D. Theses</b>		
1	<b>Efficient Estimation for Some Probability Density Functions</b> By: Kareem Ahmed Ibrahim Ali(Cairo University)	2017
2	<b>A New Class of Weighted Distributions</b> By: Ahmed Wael Mahmoud(Cairo University)	2018
3	<b>Statistical Inference for Lifetime Performance Index Based on Generalized Order Statistics</b> By: Ahmed Mohamed Abdelmaksoud Felifel	2019
4	<b>On Ranked Set Sampling and Some of its Recent Modifications</b>	2019

	By: Rasha Saber Elshaarawy Elbagoury	
5	<b>Reliability Estimation in Multicomponent "Stress-Strength" Model</b> By: Doaa Mohamed Ismail Ahmed	2020
6	<b>Estimation of Parameters for Some Lifetime Distributions in the Presence of Outliers: Bayesian Approach</b> By: Rokaya Elmorsy Mohamed	2020
7	<b>On Uncertainty for Some Probability Distributions</b> By: Barea Abdelkariem Helmy (Faculty of Science - Al-Azhar University)	2020
8	<b>On Reliability Estimation of Stress-Strength Models for Some Lifetime Distributions</b> By: Sara Moheb Abdel Hamid Osman Faculty of Science - Al-Azhar University	2021
9	<b>Bayesian and Non-Bayesian Estimation of Some Entropy Measures Based on Record Values</b> By Randa Ragab Hassan	2022
10	<b>Bayesian Inference for Accelerated Life Tests Based on Censoring Schemes</b> By Omar Huseein Serry Mahmoud (Faculty of Commerce - Al-Azhar University)	2022
11	<b>On Analysis and Estimation of Some Stress Strength Models Based on Record Values</b> By Mary Botros AbdEl-Maseh Gerges	2022

بعض رسائل الماجستير والدكتوراة التي تم مناقشتها

1	<b>Parameter Estimation of Generalized Extreme Value Distribution under Censored Samples</b>	(2013) M.Sc.
2	<b>On the Estimation for Parameters of Burr Type III Distribution in The Presence of Outliers</b> By: Said-El Sayed Hemida Abd-Alha	(2014) M.Sc.
3	<b>Contribution to a Class of Bivariate distribution</b> By: Yasser Mohamed Amer	(2015) Ph.D.
4	<b>On Some Distributions Related to Lindley distributions</b>	M.Sc.
5	<b>McDonalad-Generalized Linear Failure Rate distriburion</b>	M.Sc.
6	<b>Parameters Estimation of the Complementary Burr III Poisson Distribution under Censored Samples</b>	M.Sc.
7	<b> Parameter Estimation of Bivaiate Models under Some Censoring Schemes</b> By: Ehab Almetwally	(2019) M.Sc.
8	<b>Extending Kumaraswmay Family of Generalized distribution</b>	(2016) Ph.D.
9	<b>On A New Exponential Type Lifetime Distribution</b>	(2018) M.Sc.
10	<b>Parameters estimation of Burr type III distribution under Step stress -accelerated Life Testing with Censoring Schemes</b>	M.Sc. (2021)
11	<b>An Optimal Preventive Maintaince and Warranty Policieis</b>	M.Sc.

	with cost	(2021)
12	أثر تطبيق إدارة السلامة في تقليل حوادث النقل بالسكك الحديدية بالتطبيق على الهيئة القومية لسكك حديد مصر	ماجستير ادارة أعمال(2021)
13	دور التنبؤ في الحد من الازمات والمخاطر في مجال الكهرباء The role of forecasting in reducing crises and risks in the field of electricity	ماجستير الضبط الاحصائي وتوكيد الجودة (2022)
14	تطبيق اساليب التحسين المستمر لتحسين اداء المؤسسات الصناعية (دراسة حالة) Application of Continuous Improvement Methods for the Performances of the Industrial Organization	دكتوراة الضبط الاحصائي وتوكيد الجودة (2022)

## List Of Term Papers Supervised By Me

1. Exponentiated exponential distribution.
2. Skewness and Kurtosis measures.
3. Direct Sample estimators of L- moment.
4. The generalized gamma distribution.
5. Exponentiated Frechet distribution.
6. Goodness of fit for the Skew normal distribution.
7. Comparison of estimation methods for Weibull parameters: complete and censored.

### الدورات التي تم اجتيازها:

1. دورة تقييم التدريس
2. طرق حديثة في التدريس.
3. مهارات الاتصال الفعال.
4. مهارات العرض الفعال.
5. مهارات التفكير.
6. اتخاذ القرارات وحل المشكلات
7. نظام التعليم الالكتروني ونظام الفصول الافتراضية
8. الاختبارات الالكترونية.
9. ادارة الوقت والاجتماعات.
10. نظم الامتحانات وتقويم الطلاب
11. نظم الساعات المعتمدة.
12. أخلاقيات البحث العلمي.
13. الجوانب المالية والقانونية في الاعمال الجامعية.
14. التخطيط الاستراتيجي.
15. Online Survey Tools