

CURRICULUM VITAE

MAJID ASADI

Personal Details

Date of Birth: 21 March 1964

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Education

1995–2000 Ph.D. Statistics, University of Sheffield, UK

1990–1991 MSc. Statistics, University of Mashhad, Iran

1985–1988 BSc. Statistics, University of Mashhad, Iran

Academic Employment

- Dean of the Faculty of Sciences, University of Isfahan, Iran (2012-2016)
- Head of the Department of Statistics, University of Isfahan, Iran (2008-2009)
- Professor, University of Isfahan, Iran, since 2009
- Associate Professor, University of Isfahan, Iran, 2005-2009
- Assistant Professor, University of Isfahan, Iran, 2000-2005
- Visiting Lecturer, University of Sheffield, UK, 1999-2000
- Lecturer, University of Isfahan, Iran 1992-1994

Honors and Awards

- Research award, university of Isfahan (2024)
- Exemplary professor of the country, Iran (2015)
- Elected member of the International Statistical Institute (ISI) (since 2011)
- Distinguished lecturer, University of Isfahan (2014)
- Nominated for national research award (2011)

- Research award, Isfahan province (2010)
- Research award, university of Isfahan (2008, 2009, 2010, 2011, 2013)
- Distinguished PhD graduate from abroad, Ministry of higher education, Iran (2001)
- Full time research fellowship, Ministry of higher education, Iran (1995-999)
- Full scholarship for MSc. study, Ministry of higher education, Iran, (1988-1990)

Academic Visits

1. Department of Mathematics, Izmir University of Economics, Turkey (August 2003)
2. Laboratoire de Mathematiques Appliques, Sciences Techniques University du Havre, France (September, 2005)
3. Laboratoire de Mathematiques Appliques, Sciences Techniques University du Havre, France (September, 2007)
4. Department of Systems Engineering and Engineering Management, City University of Hong Kong (July 2014)
5. Laboratoire de Mathematiques Appliques, Sciences Techniques University du Havre, France (March, 2016)
6. Kent Business School, University of Kent, UK (2022-2023)

Organizational Membership

- Elected member of ISI
- Member of ASA
- Lifetime member of the Iranian Statistical Society

Research Interests

- Optimal maintenance of the multi-component systems
- Reliability modeling of coherent systems
- Reliability theory
- Applied Probability
- Ordered statistical data
- Statistical methods in information theory

Books

- An introduction to reliability theory (in Persian).

Published papers

1. **Asadi, M.** (2024) Preventive maintenance for coherent systems considering postponed replacement. *Applied Stochastic Models in Business and Industry*. DOI: 10.1002/asmb.2851
2. **Asadi, M.** and Wu, S. (2024) A rate randomized geometric process with applications. *Naval Research Logistics*, DOI: 10.1002/nav.22175.
3. **Asadi, M.** and Finkelstein, M. (2024) On the variability of the mean remaining lifetime at random age. *TEST*, doi.org/10.1007/s11749-023-00917-3
4. **Asadi, M.** (2023) On the phase transitions of k -out-of- n systems with applications to optimal maintenance. *Journal of Computational and Applied Mathematics*, Vo. **435**, 115286.
5. **Asadi, M.** (2023). On a parametric model for the mean number of system repairs with applications. *Reliability Engineering & System Safety*, **234**, 109137.
6. Hamdan, K., **Asadi, M.**, & Tavangar, M. (2023) Reliability assessment of weighted k -out-of- n systems with multiple types of components. *Quality Technology & Quantitative Managements*, 1-18.
7. **Asadi, M.**, Hashemi, M., & Balakrishnan, N. (2023) Rejoinder to “An overview of some classical models and discussion of the signature-based models of preventive maintenance”. *Discussion paper: Applied Stochastic Models in Business and Industry*, **39**,1, 85-87.
8. **Asadi, M.**, Hashemi, M., & Balakrishnan, N. (2023) An overview of some classical models and discussion of the signature-based models of preventive maintenance. *Discussion paper: Applied Stochastic Models in Business and Industry*. **39**,1, 4-84
9. Shojaee, O., **Asadi, M.**, & Finkelstein, M. (2023). On the hazard rate of α -mixture of survival functions. *Communications in Statistics-Theory and Methods*, 1-23.
10. Akbari Ghamsari, Z., Zamanzade, E., & **Asadi, M.** (2023). Using nomination sampling in estimating the area under the ROC curve. *Computational Statistics*, 1-22.
11. Ashrafi, S., Asadi, M., & Rostami, R. (2023). On preventive maintenance of k -out-of- n systems subject to fatal shocks. *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, 1748006X221147331.
12. Behboudi, Z., Mohtashami Borzadaran, G. R., & Asadi, M. (2023). Optimal standby activation in m -out-of- n systems: A preventive approach. *Applied Stochastic Models in Business and Industry*, **39**(3), 333-351.
13. **Asadi, M.** & Hashemi, M. (2022). System signatures: A review. *StatsRef: Statistics Reference Online*, John Wiley.
14. Bohlooli-Zefreh, M., Parvardeh, A., & **Asadi, M.** (2023). On the occurrence time of an extreme damage in a general shock model. *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, **237**(6), 1100-1113..
15. **Asadi, M.**, Devarajan, K., Ebrahimi, N., Soofi, E., & Spirko-Burns, L. (2022). Elaboration Models with Symmetric Information Divergence. *International Statistical Review*, **90**(3), 499-524.

16. Zamanzade, E., **Asadi, M.**, Parvardeh, A., & Zamanzade, E. (2023). A ranked-based estimator of the mean past lifetime with an application. *Statistical Papers*, **64**(1), 161-177.
17. Hashemi, M., **Asadi, M.**, & Tavangar, M. (2022). On preventive maintenance scheduling for the systems exposed to aging and external shocks. *Applied Stochastic Models in Business and Industry*, **38**(4), 590-608.
18. Kelkinnama, M., & **Asadi, M.** (2022). Optimal redundancy allocation in coherent systems with heterogeneous dependent components. *Journal of Applied Probability*, **59**(4), 1144-1177.
19. Hashemi, M., Tavangar, M., & **Asadi, M.** (2022). Optimal preventive maintenance for coherent systems whose failure occurs due to aging or external shocks. *Computers & Industrial Engineering*, **163**, 107829.
20. Hashemi, M., **Asadi, M.**, & Tavangar, M. (2022). Optimal maintenance strategies for coherent systems: A warranty dependent approach. *Reliability Engineering & System Safety*, **217**, 108027.
21. Mansourvar, Z., & **Asadi, M.** (2023). On the estimation of hazard rate in mixed populations with its application. *Communications in Statistics-Theory and Methods*, **52**(21), 7564-7575.
22. Memari, M., Zarezadeh, S. and **Asadi, M.**, (2021) Optimal preventive maintenance for repairable networks. *Applied Stochastic Models in Business and Industry*. **37**(6), 1017-1041.
23. Hamdan, K., Tavangar, M. & **Asadi, M.** (2021) Optimal preventive maintenance for repairable weighted k -out-of- n systems. *Reliability Engineering & System Safety*. **Vol. 205**, DOI: 10.1016/j.res.2020.107267
24. Ashrafi, S., **Asadi, M.**, & Navarro, J. (2022). Joint reliability function of coherent systems with shared heterogeneous components. *Methodology and Computing in Applied Probability*, **24**(3), 1485-1502.
25. Shojaee, O., **Asadi, M.**, & Finkelstein, M. (2022). Stochastic properties of generalized finite α -mixtures. *Probability in the Engineering and Informational Sciences*, **36**(4), 1055-1079.
26. Shojaee, O., **Asadi, M.**, & Finkelstein, M. (2021). On some properties of α -mixtures. *Metrika*, **84**(8), 1213-1240.
27. Mansourvar, Z., & **Asadi, M.** (2020). On a time dependent divergence measure between two residual lifetime distributions. *Mathematical Methods of Statistics*, **29**(3), 135-148.
28. Bohlooli-Zefreh, M., **Asadi, M.**, & Parvardeh, A. (2021). On the reliability and optimal maintenance of systems under a generalized mixed δ -shock model. *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, **235**(5), 909-922.
29. Behboudi, Z., Mohtashami Borzadaran, G.R., **Asadi, M.** (2021) Reliability modeling of two-unit cold standby systems: A periodic switching approach. *Applied Mathematical Modelling*, **92**, 176-195.
30. Ardakani, O., **Asadi, M.**, Ebrahimi, N., & Soofi, E. (2021). Variants of mixtures: information properties and applications. *Journal of the Iranian Statistical Society*, **20**(1), 27-59.

31. **Asadi, M.**, Di Crescenzo, A., Sajadi, F. A., & Spina, S. (2023). A generalized Gompertz growth model with applications and related birth-death processes. *Ricerche di Matematica*, **72**(2), 1-36.
32. Mansourvar, Z., & **Asadi, M.** (2020). An extension of the Cox-Czanner divergence measure to residual lifetime distributions with applications. *Statistics*, **54**(6), 1311-1328.
33. Hashemi, M., & **Asadi, M.** (2021). Optimal preventive maintenance of coherent systems: A generalized Polya process approach. *IISE Transactions*, **53**(11), 1266-1280.
34. Hashemi, M. and **Asadi, M.** (2020) On component failure in coherent systems with applications to maintenance strategies. *Adv. Appl. Prob.* **52**, 1197-1223.
35. Tavangar, M., & **Asadi, M.** (2020). Component reliability estimation based on system failure-time data. *Journal of Statistical Computation and Simulation*, **90**(17), 3232-3249.
36. Hashemi, M. **Asadi, M.**, Zarezadeh, S. (2020) Optimal maintenance policies for coherent systems with multi-type components, *Reliability Engineering & System Safety*, **195**, 106674.
37. Ardakani, O.M., **Asadi, M.**, Ebrahimi, N., & Soofi, E.S. (2020) MR plot: A big data tool for distinguishing distributions. *Statistical Analysis and Data Mining: The ASA Data Science Journal*, **13**, 405-418.
38. **Asadi, M.**, Ebrahimi, and Soofi, E. (2019). The alpha-mixture of survival functions. *Journal of Applied Probability*, **56**(4), 1151-1167.
39. Mansourvar, Z., & **Asadi, M.** (2019). Semiparametric inference for proportional mean past life model. *The International Journal of Biostatistics*, **15**(1), 20180020.
40. Zamanzade, E., Parvardeh, A., **Asadi, M.** (2019) Estimation of mean residual life based on ranked set sampling. *Computational Statistics and Data Analysis*, **135**, 35-55.
41. Zarezadeh, S. and **Asadi, M.** (2019) Coherent systems subject to multiple shocks with applications to preventative maintenance. *Reliability Engineering and System Safety*, **185**, 124-132.
42. Kelkinnama, M.,& **Asadi, M.** (2019). Stochastic and ageing properties of coherent systems with dependent identically distributed components. *Statistical Papers*, **60**(3), 455-471.
43. **Asadi, M.**, Ebrahimi, N., Kharazmi, O., & Soofi, E. S. (2018). Mixture models, Bayes Fisher information, and divergence measures. *IEEE Transactions on Information Theory*, **65**(4), 2316-2321.
44. Zarezadeh, S., Ashrafi, S., & **Asadi, M.** (2018). Network reliability modeling based on a geometric counting process. *Mathematics*, **6**(10), 197.
45. Mehrali, Y., & **Asadi, M.** (2021). Parameter Estimation Based on Cumulative Kullback-Leibler Divergence. *REVSTAT-Statistical Journal*, **19**(1), 111-130.
46. Zohrevand, Y., Hashemi, R., & **Asadi, M.** (2020). An adjusted cumulative Kullback-Leibler information with application to test of exponentiality. *Communications in Statistics-Theory and Methods*, **49**(1), 44-60.

47. Salehi, M., Shishebor, Z., & **Asadi, M.** (2019). On the reliability modeling of weighted k-out-of-n systems with randomly chosen components. *Metrika*, **82**(5), 589-605.
48. Ashrafi, S., Zarezadeh, S., & **Asadi, M.** (2018). Reliability modeling of coherent systems with shared components based on sequential order statistics. *Journal of Applied Probability*, **55**(3), 845-861.
49. **Asadi, M.**, Ebrahimi, N., & Soofi, E. S. (2018). Optimal hazard models based on partial information. *European Journal of Operational Research*, **270**(2), 723-733.
50. Zarezadeh, S., **Asadi, M.**, & Eftekhari, S. (2019). Signature-based information measures of multi-state networks. *Probability in the Engineering and Informational Sciences*, **33**(3), 438-459.
51. Mehrali, Y., **Asadi, M.**, & Kharazmi, O. (2018). A Jensen-Gini measure of divergence with application in parameter estimation. *Metron*, **76**(1), 115-131.
52. **Asadi, M.**, Ebrahimi, N., and Soofi, E. (2017). Connections of Gini, Fisher and Shannon via Bayes risks. *J. Applied Probability*, **54**(4), 1027-1050
53. Kharazmi, O., & **Asadi, M.** (2018). On the time-dependent Fisher information of a density function. *Brazilian Journal of Probability and Statistics*, **32**(4), 795-814.
54. **Asadi, M.** (2017) A new measure of association between random variables. *Metrika*, **80**(6-8), 649-661.
55. Ashrafi, S. and **Asadi, M.** (2017) The Failure probability of components in three-state networks with applications to age replacement policy. *J. Applied Probability*, **54** (4), 1051-1070.
56. Goli, S., **Asadi, M.** (2017) A study on the conditional inactivity time of coherent systems. in *Metrika*, **80**, no. 2, 227-241.
57. **Asadi, M.**, Ebrahimi, N., and Soofi, E. (2017). Shannon entropy measures. *StatsRef: Statistics Reference Online*, John Wiley, 1-8, DOI: 10.1002/9781118445112.stat07920
58. **Asadi, M.**, Ebrahimi, N., Soofi, E., and Zohrevand Y. (2016). Jensen-Shannon information of the coherent system lifetime. *Reliability Engineering and System Safety*, **156**, 244-255.
59. Salehi, E., **Asadi, M.** and Badia, F.G. (2016) Assessing the reliability and the stochastic properties of the components of consecutive k-out-of-n systems". *J. Applied Statistical Science* **22**, 1/2, 53-.
60. Esna Ashari, M. and **Asadi, M.** (2016) On additive-multiplicative hazards model. *Statistics*, **50**, 1421-1433.
61. Zarezadeh, S., Ashrafi, S., and **Asadi, M.** (2015) A shock model based approach to network reliability. *IEEE Transactions on Reliability*, **65** , 992-1000.
62. Navarro, J., Esna-Ashari, M., **Asadi, M.** and Sarabia, J. M. (2015) Bivariate distributions with conditionals satisfying the proportional generalized odds ratio model. *Metrika*, **78**, 691-709.
63. Kelkin Nama, M., Tavangar, M. and **Asadi, M.** (2015) New developments on stochastic properties of coherent systems. *IEEE Transactions. Reliability* , **64**(4), 1276-1286.

64. Ashrafi, S. and **Asadi, M.** (2015) On the stochastic and dependence properties of the three-state systems. *Metrika*, **78**, 261-281.
65. Tavangar, M. and **Asadi, M.** (2015) The inactivity time of exchangeable components of k -out-of- n structures. *Sankhya*, B, 77(1), 141-164.
66. **Asadi, M.**, Ebrahimi, N., Soofi, N., Zarezadeh, S. (2014) New maximum entropy methods for modeling lifetime distributions. *Naval Research Logistics*, **61**, 27-34.
67. Zarezadeh, S., **Asadi, M.** and Balakrishnan, N. (2014). Dynamic network reliability modeling under non-homogeneous Poisson process. *European J. Operational Research*, **232**, 561-571.
68. Ashrafi, S. and **Asadi, M.** (2014) Dynamic reliability modeling of three-state networks. *Journal of Applied Probability*, **51**, 999-1020.
69. Mehrali, Y., **Asadi, M.** and Hamedani, G.G.H. (2014) Recurrence relations and reliability measures in Slash and skew-Slash Distributions. *Studia. Sci. Math. Hungarica*, **51**, 243-270.
70. Zarezadeh, S. and **Asadi, M.** (2013). Network reliability modeling under stochastic process of component failures. *IEEE Trans. Reliability*, **69**, 917-929.
71. Kelkin Nama, M. and **Asadi, M.** (2013). Stochastic properties of components in a used coherent system *Meth. Comput. Appl. Probab.* **16**, 675-691 .
72. **Asadi, M.** and Asadi, A.R. (2013). On the failure probability of coherent systems. *Commun. Statist. Theo. Meth.*, **43**, 2468-2475.
73. Kelkin Nama, M. and **Asadi, M.** Zhang, Z. (2013) On the residual lifelengths of the remaining Components in a Coherent System. *Metrika*, **76**, 979-996.
74. **Asadi, M.** and Berred, A. (2012). On the number of failed components in a coherent system. *Stat. and Probab. Letters*, **82**, 2156-2163
75. **Asadi, M.** and Berred, A. (2012). Properties and estimation of mean past lifetime. *Statistics*. **46**, 405-417.
76. Zardasht, V., Zeephongsekul, P., and **Asadi, M.** (2012). On nonparametric estimation of a reliability function. *Communi. Statist. Theo. Metho.*, **41**, 983-999.
77. Tavangar, M. and **Asadi, M.** (2012). Some unified characterization results on the generalized Pareto distributions based on generalized order statistics. *Metrika*, **75**, 997-1007.
78. Salehi, E., Badia, F. G. **Asadi, M.** (2012) Preservation properties of a homogeneous Poisson process stopped at an independent random time. *Stat. and Probab. Letters*, **82**, 574-585.
79. Salehi, E. and **Asadi, M.** (2012). Results on the past lifetimes of $(n - k + 1)$ -out-of- n structures with nonidentical components. *Metrika*, **75**, 439-454.
80. Goliforushani, S., **Asadi, M.** and Balakrishnan, N. (2011). On the residual and inactivity times of the components of used coherent systems. *J. Applied Probability*, **49**, 385-404.
81. Balakrishnan, N. and **Asadi, M.** (2011). On the residual life of live components of a coherent system. *IEEE Transactions on Reliability*, **61**, 41-49.

82. Goliforushani, S. and **Asadi, M.** (2011). Stochastic ordering among inactivity times of coherent systems, *Sankhya*, **73**, 241-262.
83. Salehi, E. T., **Asadi, M.** and Eryilmaz, S. (2011). Reliability analysis of consecutive k-out-of-n systems with non-identical components lifetimes. *J. Stat. Plan. Inference.*, **141**, 2920-2932.
84. Ashrafi, S. and **Asadi, M.** (2011) Bivariate maximum entropy models with given marginals. *J. Stat. Res. Iran*, **8**, 1-19.
85. Salehi, E. T., **Asadi, M.** and Eryilmaz, S. (2011). On the mean residual lifetime of consecutive k-out-of-n systems. *Test*, **21**, 93-115.
86. Mahmoudi, M. and **Asadi, M.** (2011). The dynamic signature of coherent systems. *IEEE Trans. Reliab.*, **60**, 817-822
87. Tavangar, M. **Asadi, M.** (2011). On Stochastic and aging properties of generalized order statistics. *Probability in the Engineering and Informational Sciences*, **25**, 187-204.
88. Tavangar, M., and **Asadi, M.** (2011). Some results on conditional expectations of lower record values. *Statistics*. **45**, 237-255,
89. Zardasht, V., **Asadi, M.** and Zeephongsekul, P. (2010). Properties of some time dependent probability failure functions in reliability theory. *ANZIAM Journal*, **51**, 512-525.
90. Zarezadeh, S. and **Asadi, M.** (2010). Results on residual Rényi entropy of order statistics and record values. *Information Sciences*, **180**, 4195-4206.
91. Zardasht, V. and M., **Asadi, M.** (2010). Evaluation of $P(X_t > Y_t)$ when both X_t and Y_t are residual lifetimes of two systems. *Statistica Neerlandica*, **64**, 460-481.
92. Mahmoudi, M. **Asadi, M.** (2010). On the monotone behavior of the time dependent entropy of order α . *J. Iranian, Stat. Soc.* **9**, 65-83.
93. **Asadi, M.**, Ashrafi, S., Ebrahimi, N. and Soofi, E. (2010). Models based on partial information about survival and hazard gradient. *Probability in the Engineering and Informational Sciences*, **24**, 561-584.
94. Hashemi, M., Tavangar, M. and **Asadi, M.** (2010) Some properties of the residual lifetime of progressively Type-II right censored order statistics. *Statist. Prob. Letters.*, **80**, 848-859.
95. Navarro, J. Yolanda del A., **Asadi, M.** (2010). Some new results on the cumulative residual entropy. *J. Statistical Planning and Inference* **140**, 310-322.
96. Tavangar, M. **Aasdi, M.** (2010). A study on the mean past lifetime of the components of $(n - k + 1)$ -out-of- n system at the system level. *Metrika*, **72**, 59-73.
97. **Asadi, M.**, Raqab, M. Z. (2010) The mean residual of record values at the level of previous records. *Metrika*. **72**, 251-264
98. Raqab, M. Z. and **Asadi, M.** (2010). Some results on the mean residual waiting time of records. *Statistics*, **44**, 493-504.

99. Tavangar, M. and **Asadi, M.** (2010). Some New Characterizations Results on Exponential and Related Distributions. *Bul. Iranian Mathematical Society*. **36**, pp 257-272.
100. Tavangar, M., and **Asadi, M.** (2008). On a new measure of linear local dependence. *J. Iranian, Stat. Assoc.* **7**, 35-55.
101. **Asadi, M.** and Goliforushani, S. (2008) On the mean Residual life function of coherent Systems. *IEEE, Transactions in Reliability*, **57**, No.4, 574-500
102. Raqab, M. Z. and **Asadi, M.** (2008). On The mean residual life of records. *J. Statistical Planning and Inference*, **138**, 3660-3666.
103. Tavangar, M. and **Asadi, M.** (2008). On a characterization of generalized Pareto distribution based on generalized order statistics. *Commu. Stat. Theo. Meth.*, **37**, 37, 1347-1352 Issue 9.
104. Golifroushani, S., and **Asadi, M.** (2008). On the discrete mean past lifetime. *Metrika*, **68**, 209-217.
105. Hashemi, M. and **Asadi, M.** (2007) Some characterization results on generalized Pareto distribution based on progressive type-II right censoring. *J. Iranian Statistical Society*, Vol. **6**. 99-110.
106. **Asadi, M.** and Zohrevand, Y. (2007). On the dynamic cumulative residual entropy. *J. Statistical Planning and Inference*, **137**, 1931-1941.
107. Tavangar, M., and **Asadi, M.** (2007) Generalized Pareto distributions characterized by generalized order statistics. *Commu. Stat. Theo. Meth.*, **36**, 1333-1341.
108. **Asadi, M.** Bairamoglu, I. (2007). The mean residual lifetime and mean past lifetime of k -out-of- n structures at the system level. Eds. M. Ahsanullah and M.Z. Raqab. *Recent Development in Ordered Random Variables*, Nova Science Publishers, Inc., New York, USA
109. **Asadi, M.** and Bairamov, I. (2006). On the mean residual life function of the k -out-of- n systems at the system level. *IEEE Transactions in Reliability.*, **55**, 314-318
110. **Asadi, M.**, Ebrahimi, N. Hamedani, G.G. and Soofi, E. (2006) Information measures of Pareto distributions and order statistics. *Advances on Distribution Theory, Order Statistics and Inference*, Balakrishnan, N., E. Castillo and J.M. Sarabia, eds, Birkhauser, Boston.
111. **Asadi, M.** (2006) On the mean past lifetime of the components of a parallel system. *Journal of Stat. Plann. and Inference*, **136**, no. 4, 197-1206.
112. **Asadi, M.**, Ebrahimi, N. Hamedani, G.G. and Soofi, E. (2005) Minimum dynamic information models. *J. Applied Probability*, **42**, no. 3, 643-660.
113. **Asadi, M.** and Bairamov, I. (2005). A note on the mean residual life function of the parallel systems. *Commu. in Stat., Theory and Methods*, **34**, 1-12.
114. **Asadi, M.**, Ebrahimi, N. and Soofi, E. (2005), Dynamic generalized Information measures. *Statistics and Probability and Letters*, **71**, 85-98.

115. **Asadi, M.** (2005) Generalized Pareto distributions and their characterizations. *Advances in Models, Characterizations and Applications*, Balakrishnan, N. Gebizlioglu O. and Bayramoglu I. eds, chapter 8, pp. 121-151. Chapman and Hall.
116. **Asadi, M.** Ebrahimi, N. Hamedani, G.H. and Soofi, E. (2004). Dynamic Maximum Entropy Modeling, *Journal of Applied Probability*. **41**, 1-12.
117. **Asadi, M.** (2004) Some characterizations on generalized Pareto distributions. *Commu. Stat., Theo. and Meth.*, **33**, 2929-2939.
118. **Asadi, M.** (2003). Some closure properties of hazard measure and mean residual life orderings based on scale mixtures. *Int. Math. Journal*. Vol. **4**. No. 5, 423-430.
119. **Asadi, M.** (2002) Some extensions on multivariate mean residual life and multivariate hazard measure. *J. Stat. Theory and Appl.*, No. **4**, 287-294.
120. **Asadi, M.**, Shanbhag, D.N.(2001) Hazard measure and mean residual life orderings: A unified Approach. *Handbook of Statistics* Vol. 20, 199-214.
121. **Asadi, M.**, Rao, C.R., Shanbhag, D.N. (2001). Some unified characterization results on generalized Pareto distributions. *J. Statistical Planning and Inference.*, **93**, 29-50.
122. **Asadi, M.**, Ebrahimi, N. (2000). Residual entropy and its characterizations in terms of hazard function and mean residual life function. *Stat. and Prob. Letters*. **49**, 263-269.
123. **Asadi, M.** (1999) A note on characterizations based on truncated expectations. *J. Statistical Planning and Inference.*, **89**, 201-207.
124. **Asadi, M.** (1999) Multivariate distributions characterized by a relationship between mean residual life and hazard rate. *Metrika*, **49**, 121-126.
125. **Asadi, M.** (1998) Some general characterizations of the bivariate Gumbel distribution and the bivariate Lomax distribution based on truncated expectations. *Journal of Multivariate Analysis*, **67**, 190-202.
126. **Asadi, M.** (1998) Characterization of the Pearson system of distributions based on reliability measures. *Statistical Papers*, **39**, 347-360.

Papers Under Consideration

1. **Asadi, M.**, and Wu, S. (2024) Decomposition of the tail conditional expectation and a unified tail-based measure of variability.
2. Ashrafi, S. and **Asadi, M.** (2024) Preventive maintenance of multi-component systems under random inspection.
3. Shojaee, O. and **Asadi, M.** (2024) Stochastic comparisons of series-parallel and parallel-series systems with dependent and heterogeneous components.
4. Ghamsari, A. Z., Zamanzade, E., **Asadi, M.** (2024) Statistical inference from partially nominated sets: An application to estimating the prevalence of osteoporosis.

5. Navarro, J. and **Asadi, M.** (2024) Degradation models in coherent systems.
6. Wu, S. and **Asadi, M.** (2024) A method to approximate the failure process of the multi-component system and its application maintenance policy optimisation
7. **Asadi, M.** and Berred Alexandre (2024) The Mean Residual Life at Random Age and its Connection to Variability Measures

Papers Published in Proceedings

1. Hamdan, K., Tavangar, M. & **Asadi, M.** (2021) Reliability evaluation of weighted systems consisting of multiple types of components. Proceedings of the 7th Seminar on Reliability and its Applications, Birjand, Iran.
2. Hashemi, M., **Asadi, M.**, & Tavangar, M. (2021) Optimal maintenance strategies for a warranted coherent system. Proceedings of the 7th Seminar on Reliability and its Applications, Birjand, Iran.
3. Shojaee, O., **Asadi, M.** (2021) On some closure properties of α -mixtures. Proceedings of the 7th Seminar on Reliability and its Applications, Birjand, Iran.
4. Hashemi, M., and **Asadi, M.** (2020) A Polya process-based optimal preventive maintenance for complex systems. Proceedings of the 6th Seminar on Reliability and its Applications, Mazandaran, Iran.
5. Mansourvar, Z. and **Asadi, M.** (2020) A new measure of divergence between two lifetime distributions. the 4th Seminar on Information Theory and its Applications, University of Isfahan, Iran
6. Hashemi, M., & **Asadi, M.** (2019) Some Maintenance Policies for Coherent Systems. Proceedings of the 6th Seminar on Reliability and its Applications, Yazd, Iran.
7. Ashrafi, S., Rostami, R. & **Asadi, M.** (2019) Preventive Maintenance for Systems Subject to Marshal-Olkin Type Shock Models. Proceedings of the 7th Seminar on Reliability and its Applications, Yazd, Iran.
8. Nasr-Esfahan, S. and **Asadi, M.** (2018) Connections between diversion concepts and reliability measures. Proceedings of the 4th Seminar on Reliability and its Applications, Shiraz, Iran.
9. Zamanzade, E., Pavardeh, A., & **Asadi, M.** (2018) An RSS-based estimator of mean residual life. Proceedings of the 4th Seminar on Reliability and its Applications, Shiraz, Iran.
10. Esna-Ashari, M. and **Asadi, M.** (2015) On Additive-Multiplicative Hazards Model. Proceedings of the First Seminar on Reliability and its Applications, Isfahan, Iran.
11. Mehrali, Y. and **Asadi, M.** (2014) Parameter estimation by Kullback-Leibler divergence of Survival functions with application to censored data. The 2nd Workshop on Information Measures and Their Applications, Mashhad, Iran
12. Zohrevand, Y. Hashemi R. and **Asadi, M.** A short note on the cumulative residual entropy. The 2nd Workshop on Information Measures and Their Applications, Mashhad, Iran

13. Zarezadeh, S., Ashrafi, S. and Asadi M. (2014) A shock model based network reliability. Proceedings of International Conference on Reliability, Maintainability and Safety, China.
14. Ashrafi, S., Zarezadeh, S. and **Asadi, M.** (2014) Stochastic and reliability properties of three-state networks. Proceedings of International Conference on Reliability, Maintainability and Safety (2014), China.
15. **Asadi, M.** (2011). On the number of failed components in an operating coherent system. Proceedings of 42th Mathematical conference of Iran, Vali Asr University, Rafsanjan, Iran
16. Kelkin Nama, M. and **Asadi, M.** (2011) On the residual lifelengths of the remaining components in a coherent system. 2th Workshop on Reliability and its Applications, University of Isfahan.
17. Mehrali, Y. and **Asadi, M.** (2011) Recurrence relations and reliability measures in skew-Slash distribution. Proceedings of 8th Seminar on Probability and Stochastic Processes. Gilan University.
18. Tavangar, M. and **Asadi, M.** (2010) A note on stochastic and aging properties of conditional generalized order statistics. Proceedings of 10th Iranian Statistical conference, University of Tabriz, Iran
19. Ashrafi, S. and **Asadi, M.** (2010) Bivariate maximum entropy models with given marginal distributions. Proceedings of 10th Iranian Statistical conference, University of Tabriz, Iran.
20. Salehi, E. and Aasdi, M. (2010) Results on the past lifetimes of $(n - k + 1)$ -out-of- n structures with nonidentical components. Proceedings of 10th Iranian Statistical conference, University of Tabriz, Tabriz Iran.
21. Mahmoudi, M. and **Asadi, M.** (2009) Results on the residual and past entropies of order α , Proceedings of 7th Seminar on Probability and Stochastic Processes, Isfahan University of Technology, Iran.
22. Tavangar, M., and **Asadi, M.** (2008) On the inactivity time of lower k-records and associated stochastic orders. 9th Iranian Statistical Conference, University of Isfahan, Iran, August 2008.
23. **Asadi, M.** (2007). A study on the mean residual life function of coherent systems. Proceedings of the MMR2007, University of Strathclyde, Glasgow.
24. Zardasht, V. **Asadi, M.** (2007) On a Comparison between two residual lifetimes, Proceedings of SPSP, University. of Mazandaran.
25. **Asadi, M.** (2006). On the dynamic Information measures, Proc. of the 8th Iranian Statistical Conference., pp. 19-29.
26. Tavangar, M., **Asadi, M.** (2005). Characterizations of generalized Pareto distributions based on generalized order statistics. Proceeding of SPSP, University of Birjand. (In Persian)
27. **Asadi, M.** (2004), On the mean residual life and the mean past life on the k-out-of-n systems. Proceedings of the 7th Iranian Statistical Conference, pp. 55-77.

28. Zohrevand, Y. **Asadi, M.** (2004), A study on residual entropy of life distributions. Proceedings of 7th Iranian Statistical Conference. University of Alammeh. (In Persian)
29. **Asadi, M.** (2001) On characterizations of generalized Pareto distributions. Proceedings of the CMA 2001, Conference, Univ. Ankara, 23-24.

Conference Presentations

1. Invited talk at the 8th seminar on reliability theory and its applications, Ferdowsi University of Mashhad, Iran, 2022.
2. Invited talk at the 14th Iranian Statistical Conference, Shahrood, Iran, 2018.
3. Invited talk at the 8th International Workshop on Applied Probability, Budapest, Hungary, 2018.
4. Invited talk at the 4th seminar on reliability theory and it applications, Shiraz University, Iran, 2018.
5. Invited talk at the 10th International conference on Mathematical Methods in Reliability, Grenoble, France, 2017.
6. Invited talk at the third seminar on reliability theory and it applications, Ferdowsi University, Iran, 2016.
7. Invited talk at International workshop of reliability and safety, Jiangsu Normal University, China, 2016.
8. Invited talk at the second seminar on reliability theory and it applications, Tehran University, Iran, 2016.
9. International conference on Reliability, Maintainability and Safety, China, 2014.
10. Invited talk at International Conference in Advances in Probability and Statistics, Chinese Univ. of Hong Kong, 2011.
11. Invited talk at 42nd Mathematical Conference of Iran, September, Vali Asr University, Rafsanjan, Iran, 2011.
12. Mathematical Methods in Reliability, Moscow, Russia, June 2009.
13. Conference on Ordered Statistical Data and its Applications, AWTB Aachen, Germany, 2008.
14. International Conference on Ordered Statistical Data: Approximations, Bounds and Characterizations, Izmir University of Economics, Turkey, 2005.
15. International Conference in Mathematical Methods in Reliability. July 2007, Glasgow, UK.
16. Plenary talk at the 8th Iranian Statistical Conference, Shiraz. Iran, 2006.
17. Invited talk at the International Conference on Ordered Random Data and Related Topics, Iran, 2006.

18. Invited talk at the International Conference on Ordered Statistical Data: Approximations, Bounds and Characterizations, Turkey, 2005.
19. Invited talk at the International Conference on the Future of Statistical Theory, Practice and Education, India, 2004.
20. Plenary talk at the 7th Iranian Statistical Conference, Iran, 2004.
21. Invited talk at the International Conference on Distribution Theory, Order Statistics and Inference, Spain, 2004.
22. Seminar on Stability Problems for Stochastic Models, Spain, 2003.
23. Invited talk at the International conference in Characterization, Modeling and Applications, Turkey, 2001.
24. International Conference in Reliability and Survival Analysis, Northern Illinois University, DeKalb, USA, 1998.
25. 20th Research Students Conference in Probability and Statistics. The University of Glasgow, UK, 1997.
26. 19th Research Students Conference in Probability and Statistics. The University of Southampton, UK, 1996.
27. First Iranian International Conference in Probability and Statistics. Isfahan University of Technology 1991.

Editorial Activities

- Associate Editor, *Mathematical Methods of Statistics* (2021-present)
- Associate Editor, *Journal of Statistical Modelling: Theory and Applications* (2020-Present)
- Associate Editor, *Journal of Iranian Statistical Society* (2015-Present)
- Associate Editor, *Journal of Turkish Statistical Association* (2012-Present)
- *Journal of Pure Sciences*, University of Isfahan (2004-2008)

Workshops conducted

- Reliability and its applications, 10-11, May 2008. Ferdowsi university of Mashhad.
- Information theory and its applications, 10-11, March 2008. Ferdowsi university of Mashhad.
- Reliability and its applications, 20-21, June 2011. University of Isfahan.
- Reliability and its applications, 10-11, May 2012. Ferdowsi university of Mashhad
- Information theory and its applications, 28-29, January 2015, Ferdowsi university of Mashhad
- Information theory and its applications, 20-21, May 2020, Ferdowsi university of Mashhad

Conference Organized

- Member of the scientific committee of 7th seminar on reliability and its applications, University of Birjand, Iran (2020)
- Member of the scientific committee of the 6th seminar on reliability and its applications, University of Mazandaran, Iran (2019)
- Member of the scientific committee of the 5th seminar on reliability and its applications, Yazd University, Iran (2018)
- Member of the scientific committee of the 4th seminar on reliability and its applications, Shiraz University, Iran (2017)
- Member of the scientific committee of the third seminar on reliability and its applications, Ferdowsi University of Mashhad, Iran (2016)
- Member of the scientific committee of the second seminar on reliability and its applications, University of Tehran, Iran (2015)
- Chair of the first seminar on reliability and its applications, University of Isfahan, Iran. (2014)
- Chair of the 9th Iranian Statistical Conference, University of Isfahan, Iran (2008)
- Member of the scientific committee of the 9th Iranian Statistical Conference, Ferdowsi University of Mashhad, Iran (2008)
- Member of the scientific committee of the International Conference on ordered statistical data, Ferdowsi University of Mashhad, Iran (2006)
- Member of the executive committee of the International Conference on ordered statistical data, Ferdowsi University of Mashhad, Iran (2006)
- Member of the scientific committee of 7th seminar of probability and stochastic processes, Isfahan University of Technology, Iran (2009)

Other Professional Activities

1. Senior researcher of Institute for Research in Fundamental Sciences (IPM), Iran (2019-2023)
2. Resident researcher of Institute for Research in Fundamental Sciences (IPM), Iran (2011-2019)
3. Head of promotion committee of faculty of Sciences, Iran (2009-2018)
4. Member of ordered and spatial data centre of excellence of Ferdowsi University of Mashhad, Iran (2005-present)
5. Member of promotion committee of the University of Isfahan, (2011-present)
6. Member of the executive committee of Iranian statistical society (2006-2010)
7. Member of research committee of the University of Isfahan, (2004-2005)

Teaching Activities

Courses developed and taught at the Department of Statistics, University of Isfahan:

- **PhD Level:**

Advanced Statistical Inference, Advanced Statistics, Topics in Order Statistics, Advanced Reliability Theory, Information Theory.

- **MSc Level:**

Advanced Sampling, Statistical inference (I), Statistical inference (II), Reliability Theory.

- **BSc Level:** *Introductory Statistics, Sampling Methods (I), Sampling Methods (II), Mathematical Statistics, Reliability, Advanced Methods in Statistics, Quality Control.*

Doctoral Students Supervised

1. M.S. Poursaeed (2007). On the mean past lifetime of parallel systems under double monitoring.
2. M. Tavangar (2009). Some contributions to the theory of order statistics.
3. V. Zardasht, (2010). A study on the comparisons between life distributions.
4. E. Salehi (2011). A study on the lifetime of consecutive k -out-of- n systems.
5. S. Goliforushani (2012) On the dynamic reliability of coherent systems.
6. M. Kelkinnama (2013) Stochastic properties of the components in used coherent systems.
7. S. Zarezadeh (2013) Network reliability modelling under the stochastic process failures.
8. S. Ashrafi (2104) Reliability modelling of multi-state networks.
9. M. Esna Ashari (2016) A study on conditionally specified distributions.
10. Y. Mehrali (2018) Topics in information theory with applications in estimation.
11. O. Kharazmi (2019) Topics in Fisher information of system lifetime.
12. Y. Zohrevand (2018) On adjusted cumulative Kullback-Leibler information with applications.
13. E. Zamanzade (2019) Mean residual estimation based on rank set sampling.
14. M. Salehi (2019) On the reliability modeling of weighted k -out-of- n systems.
15. M. Hashemi (2020) Optimal maintenance policies for complex systems.
16. O. Shojaee (2021) The α -mixtures of survival functions.
17. Z. Behboudi (2021) Reliability modeling of two-unit cold standby systems.
18. M. Memari (2021) Optimal preventive maintenance for reparable networks
19. K. Hamdan (2022) A study on the reliability and stochastic properties of multi-state systems.
20. Bohlooli (2023) A study on the system reliability modelling based on shocks.