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Personal:

Date of Birth : 10.02.1978
Place of Birth : Ankara, Turkey

Education:

2000-2002 Ankara University, Statistics, Ph.D.
1999-2000 Ankara University, Statistics, M.S.
1995-1999 Ankara University, Statistics, B.S.

Academic Positions:

September 2010- Professor, Department of Industrial Engineering,
Atilim University, Turkey

March 2017-May 2017 Visiting Professor, Department of Mathematical Sciences
Durham University, UK

June 2009- September 2010 Professor, Department of Mathematics,
Izmir University of Economics, Turkey

April 2004- June 2009 Associate Professor, Department of Mathematics,
Izmir University of Economics, Turkey

July 2006- August 2006 Research Fellow, Department of Statistics,
University of Manitoba, Canada

November 2002- April 2004 Assistant Professor, Department of Mathematics,
Izmir University of Economics, Turkey

November 1999-October 2002 Research Assistant, Department of Statistics,
Ankara University, Turkey

Administrative Duties:

July 2017- Vice President, Atilim University

December 2011-October 2014 Chair, Department of Industrial Engineering, Atilim University

September 2006- September 2010 Director, Graduate School of Natural and Applied Sciences
Izmir University of Economics

December 2006- September 2010 Member, Academic Council of the Faculty of Arts and Sciences
Izmir University of Economics

January 2007- September 2010 Member, Executive Board of the Faculty of Arts and Sciences
Izmir University of Economics

Honors & Awards:

- Top ranked graduate of Faculty of Science with a GPA of 96.03/100, Ankara University, 1999.
- Research grant by the Scientific and Technological Research Council of Turkey (TUBITAK), 2006.
- Scientific meeting participation grant by the International Statistical Institute's World Bank Fund, 2010.
- TUBITAK Incentive Award in Engineering, 2017.

Research Interests:

- Applied Probability
- Reliability Engineering
- System modeling and simulation
- Stochastic analysis

Professional Service:

Serving as Editor of *Istatistik: Journal of the Turkish Statistical Association*

Serving as an Area Editor of *IISE Transactions, Focus Issue on Quality and Reliability Engineering*

Served as an Associate Editor of *IEEE Transactions on Reliability*

Served as a Guest Editor of *Methodology and Computing in Applied Probability*

Serving as a member of editorial board of *International Journal of Mathematics and Mathematical Sciences*

Serving as a Technical Committee Co-Chair for *European Safety and Reliability Association*

Serving as an invited reviewer for *Mathematical Reviews (MR)*

Served as a reviewer for:

Reliability Engineering and System Safety, Applied Mathematical Modeling, IEEE Transactions on Reliability, Naval Research Logistics, IIE Transactions, Computers and Industrial Engineering, Statistical Papers, Communications in Statistics: Theory and Methods, Communications in Statistics: Simulation and Computation, Discrete Mathematics, Annals of Combinatorics, Journal of Statistical Planning and Inference, Journal of Applied Statistics, Methodology and Computing in Applied Probability, Computational Statistics & Data Analysis, Annals of the Institute of Statistical Mathematics, Journal of Computational and Applied Mathematics, Mathematical Problems in Engineering, Statistics, Statistics & Probability Letters, European Journal of Operational Research, Operations Research Letters, Metrika, Journal of Applied Probability, Applied Stochastic Models in Business and Industry

Conference Organizations:

- Chair, 7th International Workshop on Applied Probability, Antalya, Turkey, 2014.
- Vice Chair, 14th International Congress on Computational and Applied Mathematics, Antalya, Turkey, 2009.
- Vice Chair, 13th International Congress on Insurance: Mathematics and Economics, İstanbul, Turkey, 2009
- Chair, Workshop on Statistical Methods in Reliability and Quality, Izmir, Turkey, 2008.

Publications:

Note: In the following list, “*” indicates a co-author who was my graduate student or my research assistant.

Papers in International Journals

148. Eryilmaz, S. “Stochastic ordering among success runs statistics in a sequence of exchangeable binary trials”, ***Methodology and Computing in Applied Probability***, in press.
147. Eryilmaz, S. “On the first time of ruin in two dimensional discrete time risk model with dependent claim occurrences”, ***Communications in Statistics Theory and Methods***, in press.
146. Eryilmaz, S. “A note on optimization problems of a parallel system with a random number of units”, ***International Journal of Reliability, Quality, and Safety Engineering***, in press.
145. Eryilmaz, S. “Phase type stress-strength models with reliability applications”, ***Communications in Statistics: Simulation and Computation***, in press.
144. Eryilmaz, S. “A new class of bivariate lifetime distributions”, ***Communications in Statistics: Theory and Methods***, in press.
143. Eryilmaz, S. “Reliability analysis of systems with components having two dependent subcomponents”, ***Communications in Statistics: Simulation and Computation***, in press.
142. Eryilmaz, S. “ δ -shock model based on Polya process and its optimal replacement policy”, ***European Journal of Operational Research***, 263, 690-697, 2017.
141. Eryilmaz, S. “The effectiveness of adding cold standby redundancy to a coherent system at system and component levels”, ***Reliability Engineering and System Safety***, 165, 331-335, 2017.
140. Franko, C., Tutuncu, G.Y. and Eryilmaz, S. “Reliability of weighted-k-out-of-n:G systems consisting of two types of components and a cold standby component”, ***Communications in Statistics: Simulation and Computation***, 46, 4067-4081, 2017.
139. Koutras, M.V. and Eryilmaz, S. “Compound geometric distribution of order k”, ***Methodology and Computing in Applied Probability***, 19, 377-393, 2017.
138. Eryilmaz, S. “The concept of weak exchangeability and its applications”, ***Metrika***, 80, 259-271, 2017.
137. Eryilmaz, S. “On compound sums under dependence”, ***Insurance: Mathematics and Economics***, 72, 228-234, 2017.
136. Eryilmaz, S. “Computing optimal replacement time and mean residual life in reliability shock models”, ***Computers & Industrial Engineering***, 103, 40-45, 2017.

135. Eryilmaz, S. and Gebizlioglu, O.L. "Computing finite time non-ruin probability and some joint distributions in discrete time risk model with exchangeable claim occurrences", **Journal of Computational and Applied Mathematics**, 313, 235-242, 2017.
134. Eryilmaz, S. and Tuncel, A. "Generalizing the survival signature to unrepairable homogeneous multi-state systems", **Naval Research Logistics**, 63, 593-599, 2016.
133. Eryilmaz, S. "Consecutive k-out-of-n lines with a change point", **Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability**, 230, 545-550, 2016.
132. Koutras, M.V., Triantafyllou, I.S. and Eryilmaz, S. "Stochastic comparisons between lifetimes of reliability systems with exchangeable components", **Methodology and Computing in Applied Probability**, 18, 1081-1095, 2016.
131. Eryilmaz, S. "Discrete time cold standby repairable system: Combinatorial analysis", **Communications in Statistics: Theory and Methods**, 45, 7399-7405, 2016.
130. Eryilmaz, S., Oruc, O. and Oger, V. "Joint reliability importance in coherent systems with exchangeable dependent components", **IEEE Transactions on Reliability**, 65, 1562-1570, 2016.
129. Eryilmaz, S. "A reliability model for a three-state degraded system having random degradation rates", **Reliability Engineering and System Safety**, 156, 59-63, 2016.
128. Eryilmaz, S. "On an application of concomitants of order statistics", **Communications in Statistics: Theory and Methods**, 45, 5628-5636, 2016.
127. Eryilmaz, S., Gong, M. and Xie, M. "Generalized sooner waiting time problems in a sequence of trinary trials", **Statistics and Probability Letters**, 115, 70-78, 2016.
126. Eryilmaz, S., Koutras, M.V. and Triantafyllou, I.S. "Mixed three-state k-out-of-n systems with components entering at different performance levels", **IEEE Transactions on Reliability**, 65, 969-972, 2016.
125. Eryilmaz, S. "Reliability of systems with multiple types of dependent components", **IEEE Transactions on Reliability**, 65, 1022-1029, 2016.
124. Eryilmaz, S. "Computing Barlow-Proschan importance in combined systems", **IEEE Transactions on Reliability**, 65, 159-163, 2016.
123. Eryilmaz, S. "Generalized waiting time distributions associated with runs", **Metrika**, 79, 357-368, 2016.
122. Eryilmaz, S. "Discrete time shocks models in a Markovian environment", **IEEE Transactions on Reliability**, 65, 141-146, 2016.
121. Eryilmaz, S. "A new class of lifetime distributions", **Statistics & Probability Letters**, 112, 63-71, 2016.
120. Eryilmaz, S. "Compound Markov negative binomial distribution", **Journal of Computational and Applied Mathematics**, 292, 1-6, 2016.
119. Eryilmaz, S. "On the mean number of remaining components in three-state k-out-of-n system", **Operations Research Letters**, 43, 616-621, 2015.

118. Eryilmaz, S. "Component importance in coherent systems with exchangeable components", ***Journal of Applied Probability***, 52, 851-863, 2015.
117. Tank, F. and Eryilmaz, S. "The distributions of sum, minima and maxima of generalized geometric random variables", ***Statistical Papers***, 56, 1191-1203, 2015.
116. Eryilmaz, S. "Discrete time shock models involving runs", ***Statistics & Probability Letters***, 107, 93-100, 2015.
115. Eryilmaz, S. "Systems composed of two types of nonidentical and dependent components," ***Naval Research Logistics***, 62, 388-394, 2015.
114. Eryilmaz, S. "Assesment of a multi-state system under a shock model", ***Applied Mathematics and Computation***, 269, 1-8, 2015.
113. Eryilmaz, S. "Mixture representations for three-state systems with three-state components", ***IEEE Transactions on Reliability***, 64, 829-834, 2015.
112. Eryilmaz, S. and Tuncel, A. "Computing the signature of a generalized k-out-of-n system", ***IEEE Transactions on Reliability***, 64, 766-771, 2015.
111. Eryilmaz, S. "Mean time to failure of weighted k-out-of-n:G systems", ***Communications in Statistics- Simulation and Computation***, 44, 2705-2713, 2015.
110. Eryilmaz, S. "Dynamic assessment of multi-state systems using phase-type modeling", ***Reliability Engineering and System Safety***, 140, 71-77, 2015.
109. Eryilmaz, S. and Tutuncu, G.Y. "Relative behavior of a coherent system with respect to another coherent system", ***Statistical Papers***, 56, 519-529, 2015.
108. Bairamov, I. and Eryilmaz, S. "Order statistics of dependent sequences consisting of two different sets of exchangeable variables", ***Journal of Computational and Applied Mathematics***, 286, 1-6, 2015.
107. Eryilmaz, S. and Tutuncu, G.Y. "Stress-strength reliability in the presence of fuzziness", ***Journal of Computational and Applied Mathematics***, 282, 262-267, 2015.
106. Eryilmaz, S. "Capacity loss and residual capacity in weighted k-out-of-n:G systems", ***Reliability Engineering and System Safety***, 136, 140-144, 2015.
105. Eryilmaz, S. "Lifetime of multi-state k-out-of-n systems", ***Quality and Reliability Engineering International***, 30, 1015-1022, 2014.
104. Mahmoud, B. and Eryilmaz, S. "Joint reliability importance in a binary k-out-of-n:G system with exchangeable dependent components", ***Quality Technology & Quantitative Management***, 11, 453-460, 2014.
103. Eryilmaz, S. "Modeling dependence between two multi-state components via copulas", ***IEEE Transactions on Reliability***, 63, 715-720, 2014.
102. Eryilmaz, S. and Bayramoglu, K. "Life behavior of δ -shock models for uniformly distributed interarrival times", ***Statistical Papers***, 55, 841-852, 2014.
101. Eryilmaz, S. "Discussion of 'Start-up demonstration tests: models, methods and applications, with some unifications", ***Applied Stochastic Models in Business and Industry***, 30, 414-416, 2014.

100. Eryilmaz, S. and Bozbulut, A.R*. "An algorithmic approach for the dynamic reliability analysis of non-repairable multi-state weighted-k-out-of-n:G system", **Reliability Engineering and System Safety**, 131, 61-65, 2014.
99. Eryilmaz, S. "Multivariate copula based dynamic reliability modeling with application to weighted-k-out-of-n systems of dependent components", **Structural Safety**, 51, 23-28, 2014.
98. Eryilmaz, S. and Xie, M. "Dynamic reliability modeling of general three-state k-out-of-n:G systems: Permanent-based computational results", **Journal of Computational and Applied Mathematics**, 272, 97-106, 2014.
97. Eryilmaz, S. "Geometric distribution of order k with a reward", **Statistics & Probability Letters**, 92, 53-58, 2014.
96. Eryilmaz, S. and Bozbulut, A.R*. "Computing marginal and joint Birnbaum, and Barlow-Proschan importances in weighted-k-out-of-n:G systems", **Computers & Industrial Engineering**, 72, 255-260, 2014.
95. Yalcin, F. and Eryilmaz, S. "q-Geometric and q-Binomial distributions of order k", **Journal of Computational and Applied Mathematics**, 27, 31-38, 2014.
94. Eryilmaz, S. and Sarikaya, K*. "Modeling and analysis of weighted-k-out-of-n:G system consisting of two different types of components", **Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability**, 228, 265-271, 2014.
93. Eryilmaz, S. "A study on reliability of coherent systems equipped with a cold standby component", **Metrika**, 77, 349-359, 2014.
92. Eryilmaz, S. "On distributions of runs in compound binomial risk model", **Methodology and Computing in Applied Probability**, 16, 149-159, 2014.
91. Eryilmaz, S. "A new look at dynamic behavior of binary coherent system from a state-level perspective", **Annals of Operations Research**, 212, 115-125, 2014.
90. Eryilmaz, S. "Parallel and consecutive k-out-of-n:F systems under stochastic deterioration", **Applied Mathematics and Computation**, 227, 19-26, 2014.
89. Eryilmaz, S. "On signatures of series and parallel systems consisting of modules with arbitrary structures", **Communications in Statistics- Simulation and Computation**, 43, 1202-1211, 2014.
88. Eryilmaz, S. "Computing reliability indices of repairable systems via signature", **Journal of Computational and Applied Mathematics**, 260, 229-235, 2014.
87. Eryilmaz, S. "Joint reliability importance in linear m-consecutive-k-out-of-n:F systems", **IEEE Transactions on Reliability**, 62, 862-869, 2013.
86. Eryilmaz, S. "Mean instantaneous performance of a system with weighted components that have arbitrarily distributed lifetimes", **Reliability Engineering and System Safety**, 119, 290-293, 2013.
85. Eryilmaz, S. "On reliability of a k-out-of-n system equipped with a single warm standby component", **IEEE Transactions on Reliability**, 62, 499-503, 2013.
84. Eryilmaz, S. "On stress-strength reliability with a time-dependent strength", **Journal of Quality and Reliability Engineering**, Article ID: 417818, 2013.

83. Eryilmaz, S. "On the sums of distributions of order statistics from exchangeable random variables", **Journal of Computational and Applied Mathematics**, 253, 204-207, 2013.
82. Eryilmaz, S. "Component importance for linear consecutive-k-out-of-n and m-consecutive-k-out-of-n systems with exchangeable components", **Naval Research Logistics**, 60, 313-320, 2013.
81. Eryilmaz, S. "On mean residual life of discrete time multi-state systems", **Quality Technology & Quantitative Management**, 10, 241-249, 2013.
80. Eryilmaz, S. and Rouyendegh, B.D. "On profust reliability of coherent systems: Signature based expressions", **Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability**, 227, 173-178, 2013.
79. Eryilmaz, S. "On residual lifetime of coherent systems after the r th failure", **Statistical Papers**, 54, 243-250, 2013.
78. Eryilmaz, S. "On reliability analysis of a k-out-of-n system with components having random weights", **Reliability Engineering and System Safety**, 109, 41-44, 2013.
77. Eryilmaz, S. "On the lifetime behavior of a discrete time shock model", **Journal of Computational and Applied Mathematics**, 237, 384-388, 2013.
76. Eryilmaz, S. "Life behavior of a system under discrete shock model," **Discrete Dynamics in Nature and Society**, Article ID: 238641, 2012.
75. Eryilmaz, S. and Mahmoud, B. "Linear m-consecutive-k,l-out-of-n:F system", **IEEE Transactions on Reliability**, 61, 787-791, 2012.
74. Eryilmaz, S. and Bayramoglu, K. "Residual lifetime of consecutive k-out-of-n systems under double monitoring", **IEEE Transactions on Reliability**, 61, 792-797, 2012.
73. Eryilmaz, S. "Reliability properties of systems with two exchangeable log-logistic components", **Communications in Statistics- Theory and Methods**, 41, 3416-3427, 2012.
72. Eryilmaz, S. "On the mean residual life of a k-out-of-n:G system with a single cold standby component", **European Journal of Operational Research**, 222, 273-277, 2012.
71. Eryilmaz, S. and Bayramoglu, I. "On extreme residual lives after the failure of the system", **Mathematical Problems in Engineering**, Article ID: 342940, 2012.
70. Eryilmaz, S. "The number of failed components in a coherent system with exchangeable components", **IEEE Transactions on Reliability**, 61, 203-207, 2012.
69. Eryilmaz, S. "Reliability of combined m-consecutive-k-out-of-n:F & consecutive kc-out-of-n systems", **IEEE Transactions on Reliability**, 61, 215-219, 2012.
68. Yalcin, F*. and Eryilmaz, S. "Start-up demonstration test based on total successes and total failures with dependent start-ups", **IEEE Transactions on Reliability**, 61, 227-230, 2012.
67. Eryilmaz, S. and Tank, F. "On reliability analysis of a two-dependent-unit series system with a standby unit", **Applied Mathematics and Computation**, 218, 7792-7797, 2012.
66. Salehi, E., Asadi, M. and Eryilmaz, S. "On the mean residual lifetime of consecutive k-out-of-n systems", **Test**, 21, 93-115, 2012.
65. Eryilmaz, S. "m-consecutive-k-out-of-n:F system with overlapping runs: Signature-based reliability analysis", **International Journal of Operational Research**, 15, 64-73, 2012.

64. Eryilmaz, S. and Navarro, J. "Failure rates of consecutive k-out-of-n systems", ***Journal of the Korean Statistical Society***, 41, 1-11, 2012.
63. Eryilmaz, S. "Consecutive k-within-m-out-of-n:F system with nonidentical components", ***Mathematical Problems in Engineering***, Article ID: 106359, 2012.
62. Eryilmaz, S. "Generalized δ -shock model via runs", ***Statistics & Probability Letters***, 82, 326-331, 2012.
61. Eryilmaz, S. and Yalcin, F*. "On the mean and extreme distances between failures in Markovian binary sequences", ***Journal of Computational and Applied Mathematics***, 236, 1502-1510, 2011.
60. Eryilmaz, S., Gebizlioglu, O.L. and Tank, F. "Modeling of claim exceedances over random thresholds for related insurance portfolios", ***Insurance: Mathematics and Economics***, 49, 496-500, 2011.
59. Eryilmaz, S. "On the lifetime of a random binary sequence", ***Discrete Applied Mathematics***, 159, 1646-1649, 2011.
58. Eryilmaz, S. "The behavior of warm standby components with respect to a coherent system", ***Statistics & Probability Letters***, 81, 1319-1325, 2011.
57. Eryilmaz, S., Koutras, M.V. and Triantafyllou, I.S. "Signature based analysis of m-consecutive k-out-of-n:F systems with exchangeable components", ***Naval Research Logistics***, 58, 344-354, 2011.
56. Salehi, E.T., Asadi, M. Eryilmaz, S. "Reliability analysis of consecutive k-out-of-n systems with non-identical components lifetimes", ***Journal of Statistical Planning and Inference***, 141, 2920-2932, 2011.
55. Eryilmaz, S. and Yalcin, F*. "Distribution of run statistics in partially exchangeable processes", ***Metrika***, 73, 293-304, 2011.
54. Eryilmaz, S. "Estimation in coherent reliability systems through copulas", ***Reliability Engineering and System Safety***, 96, 564-568, 2011.
53. Eryilmaz, S. "Dynamic behavior of k-out-of-n:G systems", ***Operations Research Letters***, 39, 155-159, 2011.
52. Eryilmaz, S. "Dynamic reliability and performance evaluation of multi-state systems with two components", ***Hacettepe Journal of Mathematics and Statistics***, 40, 125-133, 2011.
51. Eryilmaz, S. and Kan, C*. "Dynamic reliability evaluation of consecutive k-within-m-out-of-n:F system", ***Communications in Statistics- Simulation and Computation***, 40, 70-83, 2011.
50. Eryilmaz, S. "A new perspective to stress-strength models", ***Annals of the Institute of Statistical Mathematics***, 63, 101-115, 2011.
49. Eryilmaz, S. "Joint distribution of run statistics in partially exchangeable processes", ***Statistics & Probability Letters***, 81, 163-168, 2011.
48. Eryilmaz, S. "Circular consecutive k-out-of-n systems with exchangeable dependent components", ***Journal of Statistical Planning and Inference***, 141, 725-733, 2011.
47. Eryilmaz, S. and Iscioglu, F*. "Reliability evaluation for a multi-state system under stress-strength setup", ***Communications in Statistics- Theory and Methods***, 40, 547-558, 2011.

46. Eryilmaz, S. "Discrete scan statistics generated by exchangeable binary trials", **Journal of Applied Probability**, 47, 1084-1092, 2010.
45. Demir, S*. and Eryilmaz, S. "Run statistics in a sequence of arbitrarily dependent binary trials", **Statistical Papers**, 51, 959-973, 2010.
44. Eryilmaz, S. "Mean residual and mean past lifetime of multi-state systems with identical components", **IEEE Transactions on Reliability**, 59, 644-649, 2010.
43. Eryilmaz, S. "Start-up demonstration tests under Markov dependence", **Pakistan Journal of Statistics**, 26, 637-647, 2010.
42. Eryilmaz, S. "Review of recent advances in reliability of consecutive k-out-of-n and related systems", **Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability**, 224, 225-237, 2010.
41. Eryilmaz, S. and Aksoy, T*. "Reliability of linear (n,f,k) systems with weighted components", **Journal of Systems Science and Systems Engineering**, 19, 277-284, 2010.
40. Eryilmaz, S. and Zuo, M. "Computing and applying the signature of a system with two common failure criteria", **IEEE Transactions on Reliability**, 59, 576-580, 2010.
39. Eryilmaz, S. and Zuo, M. "Constrained (k,d)-out-of-n systems", **International Journal of Systems Science**, 41, 679-685, 2010.
38. Eryilmaz, S. "Number of working components in consecutive k-out-of-n system while it is working", **Communications in Statistics- Simulation and Computation**, 39, 683-692, 2010.
37. Eryilmaz, S. "On system reliability in stress-strength setup", **Statistics & Probability Letters**, 80, 834-839, 2010.
36. Eryilmaz, S. "Conditional lifetimes of consecutive k-out-of-n systems", **IEEE Transactions on Reliability**, 59, 178-182, 2010.
35. Eryilmaz, S. "Mixture representations for the reliability of consecutive-k systems", **Mathematical & Computer Modelling**, 51, 405-412, 2010.
34. Eryilmaz, S. and Tutuncu, G.Y. "Reliability evaluation of linear consecutive-weighted-k-out-of-n:F system", **Asia-Pacific Journal of Operational Research**, 26, 805-816, 2009.
33. Eryilmaz, S., Kan, C*., and Akici, F*. "Consecutive k-within-m-out-of-n:F system with exchangeable components", **Naval Research Logistics**, 56, 503-510, 2009.
32. Bairamov, I. and Eryilmaz, S. "Waiting times of exceedances in random threshold models", **Statistics & Probability Letters**, 79, 676-683, 2009.
31. Chakraborti, S., Eryilmaz, S. and Human, S. W. "A Phase II nonparametric control chart based on precedence statistics with runs-type signaling rules", **Computational Statistics and Data Analysis**, 53, 1054-1065, 2009.
30. Eryilmaz, S. "Reliability properties of consecutive k-out-of-n systems of arbitrarily dependent components", **Reliability Engineering and System Safety**, 94, 350-356, 2009.
29. Eryilmaz, S. "Mean success run length", **Journal of the Korean Statistical Society**, 38, 65-71, 2009.

28. Eryilmaz, S. "Run statistics defined on the multi-color urn model", ***Journal of Applied Probability***, 45, 1007-1023, 2008.
27. Eryilmaz, S. "Distribution of runs in a sequence of exchangeable multi-state trials", ***Statistics & Probability Letters***, 78, 1505-1513, 2008.
26. Eryilmaz, S. and Chakraborti, S. "On start-up demonstration tests under exchangeability", ***IEEE Transactions on Reliability***, 57, 627-631, 2008.
25. Eryilmaz, S. "Lifetime of combined k-out-of-n and consecutive kc-out-of-n systems", ***IEEE Transactions on Reliability***, 57, 331-335, 2008.
24. Eryilmaz, S. "Consecutive k-out-of-n: G system in stress-strength setup", ***Communications in Statistics- Simulation and Computation***, 37, 579-589, 2008.
23. Eryilmaz, S. "Multivariate stress-strength reliability model and its evaluation for coherent structures ", ***Journal of Multivariate Analysis***, 99, 1878-1887, 2008.
22. Eryilmaz, S. and Stepanov, A. "Runs in an ordered sequence of random variables", ***Metrika***, 67, 299-313, 2008.
21. Eryilmaz, S. and Fu, J. "Runs in continuous valued sequences", ***Statistics & Probability Letters***, 78, 759-765, 2008.
20. Bairamov, I. and Eryilmaz, S. "Joint behaviour of precedences and exceedances in random threshold models", ***Australian & New Zealand Journal of Statistics***, 50, 209-216, 2008.
19. Eryilmaz, S. "On the lifetime distribution of consecutive k-out-of-n: F system", ***IEEE Transactions on Reliability***, 56, 35-39, 2007.
18. Eryilmaz, S. "Extension of runs to the continuous valued sequences", ***Statistics & Probability Letters***, 77, 383-388, 2007.
17. Eryilmaz, S. and Demir, S*. "Success runs in a sequence of exchangeable binary trials", ***Journal of Statistical Planning and Inference***, 137, 2954-2963, 2007.
16. Navarro, J. and Eryilmaz, S. "Mean residual lifetimes of consecutive k-out-of-n: F systems", ***Journal of Applied Probability***, 44, 82-98, 2007.
15. Chakraborti, S. and Eryilmaz, S. "A nonparametric Shewart type signed-rank control chart based on runs", ***Communications in Statistics- Simulation and Computation***, 36, 335-356, 2007.
14. Eryilmaz, S. and Bekçi, M. "Runs in a bivariate sequence over the first coordinate", ***Communications in Statistics- Theory and Methods***, 36, 1389-1395, 2007.
13. Eryilmaz, S. "A note on runs of geometrically distributed random variables", ***Discrete Mathematics***, 306, 1765-1770, 2006.
12. Eryilmaz, S. "Some results associated with the longest run statistic in a sequence of Markov dependent trials", ***Applied Mathematics and Computation***, 175, 119-130, 2006.
11. Bairamov, I.G. and Eryilmaz, S. "Spacings, exceedances and concomitants in progressive type II censoring scheme", ***Journal of Statistical Planning and Inference***, 136, 527-536, 2006.
10. Eryilmaz, S. "Concomitants in a sequence of independent nonidentically distributed random vectors", ***Communications in Statistics- Theory and Methods***, 34, 1925-1933, 2005.

9. Eryilmaz, S. "On the distribution and expectation of success runs in nonhomogeneous Markov dependent trials", *Statistical Papers*, 46, 1, 117-128, 2005.
8. Eryilmaz, S. "The longest run statistic associated with exchangeable binary variables", *Turkish Journal of Engineering and Environmental Sciences*, 29, 2, 105-111, 2005.
7. Bairamov, I.G. and Eryilmaz, S. "Characterization of symmetry and exceedance models in multivariate FGM distributions", *Journal of Applied Statistical Science*, 13, 2, 87-99, 2004.
6. Eryilmaz, S. "On the number of success runs of length k in exchangeable trials", *International Mathematical Journal*, 3, 989-1000, 2003.
5. Eryilmaz, S. and Bairamov, I.G. "On a new sample rank of an order statistic and its concomitant", *Statistics & Probability Letters*, 63, 123-131, 2003.
4. Eryilmaz, S. "Random threshold models based on multivariate observations", *Journal of Statistical Planning and Inference*, 113, 557-568, 2003.
3. Eryilmaz, S. "Records and exceedances when underlying distribution contains atoms", *Pakistan Journal of Statistics*, 19, 25-39, 2003.
2. Eryilmaz, S. and Tütüncü, G.Y. "Success run model based on records", *Journal of Statistical Theory and Applications*, 1, 75-81, 2002.
1. Bairamov, I.G. and Eryilmaz, S. "Distributional properties of statistics based on minimal spacing and record exceedance statistics", *Journal of Statistical Planning and Inference*, 90, 21-33, 2000.

Talks given in conferences and seminars

- Eryilmaz, S. "The survival signature for a class of unrepairable multi-state systems", Invited Talk: Mathematical Methods in Reliability, Grenoble, France, 2017.
- Eryilmaz, S. "Systems with weighted components with application to energy", Seminar: Durham University, UK, May 2017.
- Eryilmaz, S. "Reliability analysis of systems with weighted components", Seminar: Liverpool University, UK, March 2017.
- Eryilmaz, S. "Generalized geometric distributions with reliability applications", Seminar: Durham University, UK, March 2017.
- Eryilmaz, S. "A new class of distributions for lifetime data", **Plenary talk**, LinStat 2016, International Conference on Trends and Perspectives in Linear Statistical Inference, Istanbul, Turkey, 2016.
- Eryilmaz, S. "Multi-state degraded systems with random degradation rates", **Plenary talk**, ALT 2016, 6th International Conference on Accelerated Life Testing and Degradation Models, Troyes, France, 2016.
- Tuncel, A. and Eryilmaz, S. "The concept of survival signature and its extension to multi-state systems", ALT 2016, 6th International Conference on Accelerated Life Testing and Degradation Models, Troyes, France, 2016.

- Eryilmaz, S., Bozbulut, A.R. and Tekin, M. "Computing mean residual lifetime in reliability shock models", ALT 2016, 6th International Conference on Accelerated Life Testing and Degradation Models, Troyes, France, 2016.
- Eryilmaz, S. "Generalized waiting time distributions based on runs", European Meeting of Statisticians, Amsterdam, 2015.
- Eryilmaz, S. "Runs and extremes in discrete time risk model", Seminar: University of Piraeus, Greece, October 2014.
- Eryilmaz, S. "Dynamic reliability analysis of multi-state systems: A review and new perspectives", 26th European Conference on Operational Research, Rome, Italy, 2013.
- Eryilmaz, S. "Mathematical methods in engineering reliability", Seminar: METU, November 2012.
- Eryilmaz, S. "System Reliability: From Basics to Current Research", Seminar: Anadolu University, November 2012.
- Eryilmaz, S. "Runs and extremes in compound binomial risk model", Seminar: METU, April 2012.
- Eryilmaz, S. "The concept of system signature and its application in engineering reliability", Seminar: Bilkent University, December 2011.
- Eryilmaz, S. "Recent advances in signature-based reliability analysis of consecutive- k systems", Invited Talk: Mathematical Methods in Reliability, Beijing, China, June 2011.
- Eryilmaz, S. "Reliability Engineering: From Conventional Problems to New Challenges", Seminar: Izmir University of Economics, October 2011.
- Eryilmaz, S. "Dynamic reliability and performance analysis of multi-state systems", 28th European Meeting of Statisticians, University of Piraeus, Greece, August 2010.
- Eryilmaz, S. "Runs and scans in exchangeable trials with application to reliability", Invited Talk: International Workshop on Applied Probability, Universidad Carlos III De Madrid, Madrid, Spain, July 2010.
- Eryilmaz, S. "Joint distribution of run statistics in partially exchangeable processes", Ankara Matematik Günleri, TOBB-ETÜ, Turkey, June 2009.
- Eryilmaz, S. and Iscioglu, F. "Multi-state system reliability under stress-strength setup", 14th International Congress on Computational and Applied Mathematics, Turkey, 2009.
- Eryilmaz, S. "Use of run statistics in financial risk management", Invited short course, International Congress on Insurance: Mathematics and Economics (IME), May 2009, Turkey.
- Eryilmaz, S. "Runs and patterns in exchangeable processes", Workshop on Recent Developments in Applied Probability and Statistics, METU, Ankara, Turkey, April 2009.
- Eryilmaz, S. "Descriptive statistics of run lengths", Invited Talk: International Workshop on Applied Probability, Universite de Technologie Compiègne, June 2008, France.

- Eryilmaz, S. "Reliability evaluation of consecutive k-out-of-n systems in stress-strength setup", International Conference: Mathematical Methods in Reliability, July 2007, Glasgow, UK.
- Eryilmaz, S. "Runs in a sequence of exchangeable trials", Seminar: University of Manitoba, August 2006, Canada.
- Eryilmaz, S. "Runs in a sequence of continuous valued random variables", Invited Talk: International Workshop on Applied Probability, University of Connecticut, May 2006, USA.
- Eryilmaz, S. "Heart rate variability analysis: Distribution of pNN50", 5. İstatistik Günleri, 24-27 May 2006, Antalya, Turkey.
- Demir, S. and Eryilmaz, S. "Distribution of runs in superposition of renewal processes", 5. İstatistik Günleri, 24-27 May 2006, Antalya, Turkey.
- Eryilmaz, S. "An order statistic approach to the longest run statistic", International Conference on Ordered Statistical Data: Approximations, Bounds, and Characterizations (OSD 2005), 15-18 June 2005, İzmir, Turkey.
- Eryilmaz, S. "Distribution free control charts with supplementary run rules", 4 th Statistics Congress , 2005, Antalya, Turkey.
- Eryilmaz, S. and Demir, S. "Runs in a sequence of exchangeable trials" , 4 th Statistics Congress, 2005, Antalya, Turkey. (in Turkish)
- Eryilmaz, S. and Akdere, F. " Stochastic orderings among concomitants of order statistics", 4 th Statistics Congress, 2005, Antalya, Turkey. (in Turkish)
- Eryilmaz, S. "Bounds for the distribution of the longest run", 6. Ulusal Ekonometri ve İstatistik Sempozyumu, Gazi University, 2003, Ankara, Turkey.
- Eryilmaz, S. "Runs for dependent binary trials", 3 rd Statistics Congress, 16-20 April, 2003, Antalya, Turkey.
- Eryilmaz, S. and Bairamov, I.G. "On the distributions of the new sample rank of an order statistic and its concomitant", İstatistik Günleri 2002, 23-24 May, Hacettepe University, Ankara, Turkey.
- Eryilmaz, S. and Tütüncü, G.Y. "On the expectation of success runs", İstatistik Günleri 2002, 23-24 May, Hacettepe University, Ankara, Turkey.
- Bairamov, I.G. and Eryilmaz, S. "Exceedances based on generalized order statistics", İstatistik Günleri 2002, 23-24 May, Hacettepe University, Ankara, Turkey.
- Bairamov, I.G. and Eryilmaz, S. "Characterization of Symmetry of FGM Sequences", Characterization, Modeling and Applications, 7-9 December 2001, Belek, Antalya, Turkey.
- Eryilmaz, S. and Tütüncü, G.Y. "Success run model based on record values", 2nd Statistics Congress, 2-6 May 2001, Belek, Antalya, Turkey.
- Eryilmaz, S. and Bairamov, I.G. "FGM Sequences, Exceedances and Records", 2nd Statistics Congress, 2-6 May 2001, Belek, Antalya, Turkey.
- Bairamov, I.G., Eryilmaz, S. and Yagci, B. "On a New Class of Archimedean Copulas", 2nd Statistics Congress, 2-6 May 2001, Belek, Antalya, Turkey.

- Eryilmaz, S. and Bairamov, I.G. "Distributional properties of statistics based on order statistics and record values", Research Symposium 2000, Gazi University, Ankara, Turkey. (in Turkish)
- Bairamov, I.G. and Eryilmaz, S. "The finite and asymptotical distributions for statistics based on minimal spacing", Research Symposium'98, State Institute of Statistics, Ankara, Turkey.

Citations:

- Sum of times cited without self-citations (ISI Web of Science): 754
- H-index (ISI Web of Science): 17

Courses Given:

- Stochastic Processes, Reliability, Stochastic Models, Discrete Mathematics, Theory of Statistics, Combinatorial Analysis, Probability and Statistics, Mathematical Computing and Simulation at *Undergraduate level*.
- Stochastic Processes, Copula theory and its application, Nonparametric Statistics, Theory of Statistics, Statistical Decision Theory, Applied Statistics, Engineering Decision and Risk Analysis, Reliability at *Graduate level*.

Theses Supervised:

- PhD Thesis: "*Dynamic reliability analysis of multi-state systems with weighted components*" with A. Bozbulut, January 2015.
- PhD Thesis: "*Optimal reliability and design in systems with weighted components*" with K. Sarıkaya, January 2015.
- PhD Thesis: "*Signature based reliability analysis of systems*" with C. Kan, June 2015. (Co-advisor)
- PhD Thesis: "*Distribution theory of runs and run-related statistics in sequences of dependent trials*" with F. Yalçın, July 2013. (Co-advisor)
- PhD Thesis: "*Statistical reliability of multi-state systems*" with F. İşçiöğlü , July 2010.
- PhD Thesis: "*Distribution theory of runs and patterns and their applications*" with S.Demir, October 2009.
- MS Thesis: "*Reliability analysis of consecutive-k systems in stress-strength setup*" with F. Akıcı, June 2010.
- MS Thesis: "*The signature of coherent systems and its application to consecutive k-within-m-out-of-n systems*" with C. Kan, June 2009.
- MS Thesis: "*Reliability evaluation of systems with weighted components*" with T. Aksoy, June 2009.
- MS Thesis: "*Reliability of k-out-of-n systems*" with E. Gürsoy, May 2006.

- MS Thesis: "*Dependence structure and stochastic comparisons among concomitants of order statistics*" with F. Akdere, August 2005.
- MS Thesis: "*Run statistics and their applications*" with S. Demir, March 2005.