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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-present	Professor, Department of Industrial Engineering, Atılım University, Turkey
March 2017-May 2017	Visiting Professor, Department of Mathematical Sciences Durham University, UK
June 2009-August 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

September 2023-present	President, Atılım University
July 2023-September 2023	Acting President, Atılım University
July 2017-July 2023	Vice President, Atılım University
December 2011-October 2014	Chair, Department of Industrial Engineering, Atılım University
September 2006-August 2010	Director, Graduate School of Natural and Applied Sciences Izmir University of Economics

HONORS&AWARDS

1	TUBITAK Incentive Award in Engineering, 2017.
2	Research grant by the Scientific and Technological Research Council of Turkey (TUBITAK), 2017.
3	Research grant by the Scientific and Technological Research Council of Turkey (TUBITAK), 2006.
4	Top ranked graduate of Faculty of Science with a GPA of 96.03/100, Ankara University, 1999.

RESEARCH INTERESTS

1	Applied Probability
2	Reliability Engineering
3	Stochastic Models
4	Actuarial Risk Analysis
5	Probabilistic analysis of renewable energy systems

PROFESSIONAL SERVICE

1	Serving as Editorial Board Member of <i>Reliability Engineering and System Safety</i>
2	Serving as Associate Editor of <i>Methodology and Computing in Applied Probability</i>
3	Serving as Associate Editor of <i>Communications in Statistics-Theory and Methods, Communications in Statistics-Simulation and Computation</i>
4	Serving as a Technical Committee Co-Chair for <i>European Safety and Reliability Association</i>
5	Served as an Associate Editor of <i>IEEE Transactions on Reliability</i>
6	Served as an Area Editor of <i>IIE Transactions, Focus Issue on Quality and Reliability Engineering</i>
7	Served as a Reviewer for Reliability Engineering and System Safety, European Journal of Operational Research, Applied Mathematical Modeling, IEEE Transactions on Reliability, Naval Research Logistics, IIE Transactions, Computers and Industrial Engineering, Operations Research Letters, Applied Stochastic Models in Business and Industry, Journal of Applied Probability, 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, , Metrika, Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability

PUBLICATIONS

219	Eryilmaz, S. "Reliability evaluation of a system protected by blocks", <i>IMA Journal of Management Mathematics</i> , in press.
218	Eryilmaz, S. "A note on hazard rates of systems protected by a block", <i>Metrika</i> , in press.
217	Eryilmaz, S. "QRS (quality-reliability-safety) complex of engineering: Its importance and necessity in engineering education", <i>International Journal of Mechanical Engineering Education</i> , in press.
216	Eryilmaz, S. "The Evaluation of System Reliability Under Dependent Shock Magnitudes", <i>Methodology and Computing in Applied Probability</i> , 28, 2026.
215	Kus, C. and Eryilmaz, S. "Estimation of parameters for a system equipped with protection block", <i>Journal of Computational and Applied Mathematics</i> , 117102, 476, 2026.
214	Eryilmaz, S. "Protection or redundancy: Which is better and when in terms of mean time to failure and cost?", <i>Reliability Engineering and System Safety</i> , 111544, 265, 2026.

213	Eryilmaz, S. "On reliability of consecutive k-out-of-n:G system equipped with protection blocks", <i>International Journal of General Systems</i> , 55, 129-144, 2026.
212	Eryilmaz, S., Kan, C. and Devrim, Y. "The distribution of wind power from a dispersed array of wind turbine generators and its reliability based applications", <i>Journal of Computational and Applied Mathematics</i> , 116908, 473, 2026.
211	Eryilmaz, S. "A Class of Shock Models for a System That is Equipped With a Protection Block With an Application to Wind Turbine Reliability", <i>Applied Stochastic Models in Business and Industry</i> , 41, 2025.
210	Eryilmaz, S. "The mean number of failed components in discrete time consecutive k-out-of-n: F system and its application to parameter estimation and optimal age-based preventive replacement", <i>Reliability Engineering and System Safety</i> , 111229, 263, 2025.
209	Eryilmaz, S. "Reliability and optimal age-based replacement policy for consecutive 2-out-of-n:G system equipped with protection blocks", <i>Computers and Industrial Engineering</i> , 204, 111120, 2025.
208	Eryilmaz, S. and Bulanik, I. "Age replacement policies for discrete and continuous heterogeneous k-out-of-n systems", <i>Annals of Operations Research</i> , 347, 249-1263, 2025.
207	Eryilmaz, S. "Reliability and performance evaluation of weighted k-out-of-n :G system consisting of components with discrete lifetimes", <i>Reliability Engineering and System Safety</i> , 252, 110484, 2024.
206	Lorvand, H. and Eryilmaz, S. "A new extended δ -shock model with the consideration of shock magnitude", <i>Applied Stochastic Models in Business and Industry</i> , 40, 1355-1364, 2024.
205	Eryilmaz, S. and Kateri, M. "Estimating the parameter of a geometric distribution from series system data", <i>Journal of Computational and Applied Mathematics</i> , 450, 115991, 2024.
204	Ozdemir, I.B., Kilicoglu, S. and Eryilmaz, S. "Age replacement policy for heterogeneous parallel systems", <i>Journal of Computational and Applied Mathematics</i> , 438, 115562, 2024.
203	Eryilmaz, S., Bulanik, I* and Devrim, Y. "Computing reliability indices of a wind power system via Markov chain modelling of wind speed", <i>Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability</i> , 238, 71-78, 2024.
202	Eryilmaz, S., Kateri, M. and Devrim, Y. "Statistics and probability theory in renewable energy: Teaching and research", <i>Applied Stochastic Models in Business and Industry</i> , 39, 720-729, 2023.
201	Chadjiconstantinidis, S. and Eryilmaz, S. "Distributions of random variables involved in discrete censored δ -shock models", <i>Advances in Applied Probability</i> , 55, 1144-1170, 2023.
200	Eryilmaz, S. and Tank, F. "Optimal age replacement policy for discrete time parallel systems", <i>TOP</i> , 31, 475-490, 2023.
199	Chadjiconstantinidis, S. and Eryilmaz, S. "Computing waiting time probabilities related to (k_1, k_2, \dots, k_l) pattern", <i>Statistical Papers</i> , 64, 1373-1390, 2023.
198	Chadjiconstantinidis, S., Tuncel, A. and Eryilmaz, S. "A new mixed delta shock model with a change in shock distribution", <i>TOP</i> , 31, 491-509, 2023.
197	Eryilmaz, S. and Unlu, K.D. "A new generalized δ -shock model and its application to 1-out-of- $(m + 1)$:G cold standby system", <i>Reliability Engineering and System Safety</i> , 234, 109203, 2023.
196	Eryilmaz, S. "Age based preventive replacement policy for discrete time coherent systems with independent and identical components", <i>Reliability Engineering and System Safety</i> , 240, 109544, 2023.

195	Chadjiconstantinidis, S. and Eryilmaz, S. "Reliability of a mixed δ -shock model with a random change point in shock magnitude distribution and an optimal replacement policy", <i>Reliability Engineering and System Safety</i> , 232, 109080, 2023.
194	Eryilmaz, S. "Discussion of signature-based models of preventive maintenance", <i>Applied Stochastic Models in Business and Industry</i> , 39, 74-75, 2023.
193	Kelkinnama, M. and Eryilmaz, S. "Some reliability measures and maintenance policies for a coherent system composed of different types of components", <i>Metrika</i> , 86, 57-82, 2023.
192	Chadjiconstantinidis, S. and Eryilmaz, S. "Reliability assessment for censored delta-shock models", <i>Methodology and Computing in Applied Probability</i> , 24, 3141-3173, 2022.
191	Chadjiconstantinidis, S. and Eryilmaz, S. "The Markov discrete time delta-shock reliability model and a waiting time problem", <i>Applied Stochastic Models in Business and Industry</i> , 38, 952-973, 2022.
190	Eryilmaz, S. and Navarro, J. "A decision theoretic framework for reliability-based optimal wind turbine selection", <i>Reliability Engineering and System Safety</i> , 221, 108291, 2022.
189	Eryilmaz, S. and Finkelstein, M. "Reliability of the two-unit standby system revisited", <i>Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability</i> , 236, 1096-1103, 2022.
188	Eryilmaz, S. and Yalcin, F. "The number of failed components upon system failure when the lifetimes are discretely distributed", <i>Reliability Engineering and System Safety</i> , 225, 108632, 2022.
187	Kus, C., Tuncel, A. and Eryilmaz, S. "Assessment of shock models for a particular class of intershock time distributions", <i>Methodology and Computing in Applied Probability</i> , 24, 213-231, 2022.
186	Kus, C. and Eryilmaz, S. "Analysis of the two-unit cold standby repairable system with damage and repair time dependency via matrix-exponential distributions", <i>Quality Technology and Quantitative Management</i> , 18, 771-786, 2021.
185	Eryilmaz, S. and Ucum, K.A.* "The lost capacity by the weighted-k-out-of-n system upon system failure", <i>Reliability Engineering and System Safety</i> , 216, 107914, 2021.
184	Finkelstein, M. and Eryilmaz, S. "On optimal maintenance of degrading multi-state systems with state-dependent cost of repair", <i>Applied Stochastic Models in Business and Industry</i> , 37, 790-801, 2021.
183	Eryilmaz, S. and Tank, F. "Computing minimal signature of coherent systems through matrix-geometric distributions", <i>Journal of Applied Probability</i> , 58, 621-636, 2021.
182	Kan, C. and Eryilmaz, S. "Reliability assessment of a discrete time cold standby repairable system", <i>TOP</i> , 29, 613-628, 2021.
181	Eryilmaz, S. and Kan, C. "Reliability assessment for discrete time shock models via phase-type distributions", <i>Applied Stochastic Models in Business and Industry</i> , 37, 513-524, 2021.
180	Eryilmaz, S. "Revisiting discrete time age replacement policy for phase-type lifetime distributions", <i>European Journal of Operational Research</i> , 295, 699-704, 2021.
179	Dembinska, A. and Eryilmaz, S. "Discrete time series-parallel system and its optimal configuration", <i>Reliability Engineering and System Safety</i> , 215, 107832, 2021.
178	Eryilmaz, S. and Kan, C. "A new shock model with a change in shock size distribution", <i>Probability in the Engineering and Informational Sciences</i> , 35, 381-395, 2021.
177	Devrim, Y. and Eryilmaz, S. "Reliability based evaluation of hybrid wind-solar energy system", <i>Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability</i> , 235, 136-143, 2021.

176	Eryilmaz, S., Bulanik, I.* and Devrim, Y. "Reliability based modeling of hybrid solar/wind power system for long term performance assessment", Reliability Engineering and System Safety , 209, 107478, 2021.
175	Eryilmaz, S. "Age-based preventive maintenance for coherent systems with applications to consecutive-k-out-of-n and related systems", Reliability Engineering and System Safety , 204, 107143, 2020.
174	Gong, M., Eryilmaz, S. and Xie, M. "Reliability assessment of system under a generalized cumulative shock model", Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability , 234, 129-137, 2020.
173	Kan, C., Devrim, Y. and Eryilmaz, S. "On the theoretical distribution of the wind farm power when there is a correlation between wind speed and wind turbine availability", Reliability Engineering and System Safety , 203, 107115, 2020.
172	Eryilmaz, S., Ozkurt, F.Y. and Erkan, T.E. "The number of failed components in series-parallel system and its application to optimal design", Computers and Industrial Engineering , 150, 106879, 2020.
171	Eryilmaz, S. and Kan, C. "Reliability based modelling and analysis for a wind power system integrated by two wind farms considering wind speed dependence", Reliability Engineering and System Safety , 203, 107077, 2020.
170	Eryilmaz, S. and Ozkut, M. "Optimization problems for a parallel system with multiple types of dependent components", Reliability Engineering and System Safety , 199, 2020.
169	Eryilmaz, S. and Pekalp, M.H. "On optimal age replacement policy for a class of coherent systems", Journal of Computational and Applied Mathematics , 377, 2020.
168	Bozbulut, A.R. and Eryilmaz, S. "Generalized extreme shock models and their applications", Communications in Statistics: Simulation and Computation , 49, 110-120, 2020.
167	Tank, F. and Eryilmaz, S. "On bivariate compound sums", Journal of Computational and Applied Mathematics , 365, 2020.
166	Eryilmaz, S. "Statistical inference for a class of start-up demonstration tests", Journal of Quality Technology , 51,314-324, 2019.
165	Eryilmaz, S. and Kan, C. "Reliability and optimal replacement policy for an extreme shock model with a change point", Reliability Engineering and System Safety , 190, 2019.
164	Eryilmaz, S. and Bozbulut, A.R. "Reliability analysis of weighted-k-out-of-n system consisting of three-state components", Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability , 233, 972-977, 2019.
163	Gebizlioglu, O.L. and Eryilmaz, S. "The maximum surplus in a finite-time interval for a discrete-time risk model with exchangeable, dependent claim occurrences", Applied Stochastic Models in Business and Industry , 35, 858-870, 2019.
162	Eryilmaz, S. "Modeling systems with two dependent components under bivariate shock models", Communications in Statistics: Simulation and Computation , 48, 1714-1728, 2019.
161	Eryilmaz, S. and Devrim, Y. "Reliability and optimal replacement policy for a k-out-of-n system subject to shocks", Reliability Engineering and System Safety , 188, 393-397, 2019.
160	Eryilmaz, S. and Tekin, M. "Reliability evaluation of a system under a mixed shock model", Journal of Computational and Applied Mathematics , 352, 255-261, 2019.
159	Eryilmaz, S. and Devrim, Y. "Theoretical derivation of wind plant power distribution with the consideration of wind turbine reliability", Reliability Engineering and System Safety , 185, 192-197, 2019.
158	Eryilmaz, S. "(k ₁ ,k ₂ ,...k _m)-out-of-n system and its reliability", Journal of Computational and Applied Mathematics , 346, 591-598, 2019.

157	Ozkut, M. and Eryilmaz, S. "Reliability analysis under Marshall-Olkin run shock model", <i>Journal of Computational and Applied Mathematics</i> , 349, 52-59, 2019.
156	Tuncel, A. and Eryilmaz, S. "System reliability under delta-shock model", <i>Communications in Statistics Theory and Methods</i> , 47, 4872-4880, 2018.
155	Yalcin, F., Eryilmaz, S. And Bozbulut, A.R. "A generalized class of correlated run shock models", <i>Dependence Modeling</i> , 6, 131-138, 2018.
154	Eryilmaz, S., Coolen, F.P.A. and Coolen-Maturi, T. "Mean residual life of coherent systems consisting of multiple types of components", <i>Naval Research Logistics</i> , 65, 86-97, 2018.
153	Eryilmaz, S. "The number of failed components in a k-out-of-n system consisting of multiple types of components", <i>Reliability Engineering and System Safety</i> , 175, 246-250, 2018.
152	Eryilmaz, S., Erkan, T.E. "Coherent system with standby components", <i>Applied Stochastic Models in Business and Industry</i> , 395-406, 34, 2018.
151	Eryilmaz, S. "Phase type stress-strength models with reliability applications", <i>Communications in Statistics: Simulation and Computation</i> , 47, 954-963, 2018.
150	Eryilmaz, S. "Stochastic ordering among success runs statistics in a sequence of exchangeable binary trials", <i>Methodology and Computing in Applied Probability</i> , 20, 563-573, 2018.
149	Eryilmaz, S. "Reliability analysis of multi-state system with three-state components and its application to wind energy", <i>Reliability Engineering and System Safety</i> , 172, 58-63, 2018.
148	Eryilmaz, S. "On the first time of ruin in two dimensional discrete time risk model with dependent claim occurrences", <i>Communications in Statistics Theory and Methods</i> , 47, 2251-2258, 2018.
147	Eryilmaz, S., Coolen, F.P.A. and Coolen-Maturi, T. "Marginal and joint reliability importance based on survival signature", <i>Reliability Engineering and System Safety</i> , 172, 118-128, 2018.
146	Eryilmaz, S. "On success runs in a sequence of dependent trials with a change point", <i>Statistics & Probability Letters</i> , 132, 91-98, 2018.
145	Eryilmaz, S. "A new class of bivariate lifetime distributions", <i>Communications in Statistics: Theory and Methods</i> , 46, 12324-12335, 2017.
144	Eryilmaz, S. "Reliability analysis of systems with components having two dependent subcomponents", <i>Communications in Statistics: Simulation and Computation</i> , 46, 8005-8013, 2017.
143	Eryilmaz, S. "A note on optimization problems of a parallel system with a random number of units", <i>International Journal of Reliability, Quality, and Safety Engineering</i> , 24, 1750022-1, 1750022-9, 2017.
142	Eryilmaz, S. " δ -shock model based on Polya process and its optimal replacement policy", <i>European Journal of Operational Research</i> , 263, 690-697, 2017.
141	Eryilmaz, S. "The effectiveness of adding cold standby redundancy to a coherent system at system and component levels", <i>Reliability Engineering and System Safety</i> , 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", <i>Communications in Statistics: Simulation and Computation</i> , 46, 4067-4081, 2017.
139	Koutras, M.V. and Eryilmaz, S. "Compound geometric distribution of order k", <i>Methodology and Computing in Applied Probability</i> , 19, 377-393, 2017.
138	Eryilmaz, S. "The concept of weak exchangeability and its applications", <i>Metrika</i> , 80, 259- 271, 2017.
137	Eryilmaz, S. "On compound sums under dependence", <i>Insurance: Mathematics and Economics</i> , 72, 228-234, 2017.
136	Eryilmaz, S. "Computing optimal replacement time and mean residual life in reliability shock models", <i>Computers & Industrial Engineering</i> , 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", <i>Communications in Statistics- Simulation and Computation</i> , 44, 2705-2713, 2015.
110	Eryilmaz, S. "Dynamic assessment of multi-state systems using phase-type modeling", <i>Reliability Engineering and System Safety</i> , 140, 71-77, 2015.
109	Eryilmaz, S. and Tutuncu, G.Y. "Relative behavior of a coherent system with respect to another coherent system", <i>Statistical Papers</i> , 56, 519-529, 2015.
108	Bairamov, I. and Eryilmaz, S. "Order statistics of dependent sequences consisting of two different sets of exchangeable variables", <i>Journal of Computational and Applied Mathematics</i> , 286, 1-6, 2015.
107	Eryilmaz, S. and Tutuncu, G.Y. "Stress-strength reliability in the presence of fuzziness", <i>Journal of Computational and Applied Mathematics</i> , 282, 262-267, 2015.
106	Eryilmaz, S. "Capacity loss and residual capacity in weighted k-out-of-n:G systems", <i>Reliability Engineering and System Safety</i> , 136, 140-144, 2015.
105	Eryilmaz, S. "Lifetime of multi-state k-out-of-n systems", <i>Quality and Reliability Engineering International</i> , 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", <i>Quality Technology & Quantitative Management</i> , 11, 453-460, 2014.
103	Eryilmaz, S. "Modeling dependence between two multi-state components via copulas", <i>IEEE Transactions on Reliability</i> , 63, 715-720, 2014.
102	Eryilmaz, S. and Bayramoglu, K. "Life behavior of δ -shock models for uniformly distributed interarrival times", <i>Statistical Papers</i> , 55, 841-852, 2014.
101	Eryilmaz, S. "Discussion of 'Start-up demonstration tests: models, methods and applications, with some unifications", <i>Applied Stochastic Models in Business and Industry</i> , 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", <i>Reliability Engineering and System Safety</i> , 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", <i>Structural Safety</i> , 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", <i>Journal of Computational and Applied Mathematics</i> , 272, 97-106, 2014.
97	Eryilmaz, S. "Geometric distribution of order k with a reward", <i>Statistics & Probability Letters</i> , 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", <i>Computers & Industrial Engineering</i> , 72, 255-260, 2014.
95	Yalcin, F. and Eryilmaz, S. "q-Geometric and q-Binomial distributions of order k", <i>Journal of Computational and Applied Mathematics</i> , 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", <i>Proceedings of the Institution of Mechanical Engineers, Part O, Journal of Risk and Reliability</i> , 228, 265-271, 2014.
93	Eryilmaz, S. "A study on reliability of coherent systems equipped with a cold standby component", <i>Metrika</i> , 77, 349-359, 2014.
92	Eryilmaz, S. "On distributions of runs in compound binomial risk model", <i>Methodology and Computing in Applied Probability</i> , 16, 149-159, 2014.
91	Eryilmaz, S. "A new look at dynamic behavior of binary coherent system from a state-level perspective", <i>Annals of Operations Research</i> , 212, 115-125, 2014.
90	Eryilmaz, S. "Parallel and consecutive k-out-of-n:F systems under stochastic deterioration", <i>Applied Mathematics and Computation</i> , 227, 19-26, 2014.

89	Eryilmaz, S. "On signatures of series and parallel systems consisting of modules with arbitrary structures", <i>Communications in Statistics-Simulation and Computation</i> , 43, 1202-1211, 2014.
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CONFERENCE PRESENTATIONS (Selected)

1	Eryilmaz, S. "On some analogies between engineering and biological systems from a reliability engineering point of view", Plenary Talk , Statistical Modeling with Applications, A Conference in honour of Professor Markos V. Koutras, Statmod 2025
2	Eryilmaz, S. "Modelling and assessment of wind energy systems from reliability point of view", Plenary Talk , 12th International Conference on Mathematical Methods in Reliability, May 2023, Spain.
3	Eryilmaz, S. "Statistical aspects of wind energy", Plenary Talk , International Conference on Advances in Statistics, October 2020.
4	Eryilmaz, S. "Compound sums", Plenary Talk , 11th International Statistics Days Conference, Mugla, Turkey, October 2018.
5	Eryilmaz, S. "System reliability optimization: An overview and new problems", Plenary Talk , 12th International Conference on Challenges in Industrial Engineering and Operations Management, Turkey, September 2018.
6	Eryilmaz, S. "Distributions of runs in a sequence of dependent trials with a change point", Invited session talk, International Workshop on Applied Probability, Budapest, June 2018.
7	Eryilmaz, S. "The survival signature for a class of unrepairable multi-state systems", Invited session talk, Mathematical Methods in Reliability, Grenoble, France, 2017.
8	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.
9	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.
10	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.
11	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.
12	Eryilmaz, S. "Generalized waiting time distributions based on runs", European Meeting of Statisticians, Amsterdam, 2015.
13	Eryilmaz, S. "Dynamic reliability analysis of multi-state systems: A review and new perspectives", Invited session talk, 26th European Conference on Operational Research, Rome, Italy, 2013.
14	Eryilmaz, S. "Recent advances in signature-based reliability analysis of consecutive- k systems", Invited session talk: Mathematical Methods in Reliability, Beijing, China, June 2011.
15	Eryilmaz, S. "Runs and scans in exchangeable trials with application to reliability", Invited session talk, International Workshop on Applied Probability, Universidad Carlos III De Madrid, Madrid, Spain, July 2010
16	Eryilmaz, S. "Use of run statistics in financial risk management", Invited short course, International Congress on Insurance: Mathematics and Economics (IME), May 2009, Turkey.
17	Eryilmaz, S. "Descriptive statistics of run lengths", Invited session talk, International Workshop on Applied Probability, Universite de Technologie Compiègne, June 2008, France.
18	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.
19	Eryilmaz, S. "Runs in a sequence of continuous valued random variables", Invited session talk: International Workshop on Applied Probability, University of Connecticut, May 2006, USA.

CITATIONS

Sum of times cited without self-citations (Web of Science):	3644
H-index (Web of Science):	36

COURSES GIVEN

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

THESES SUPERVISED

1	PhD Thesis: " <i>Dynamic reliability analysis of multi-state systems with weighted components</i> " with A. Bozbulut, January 2015.
2	PhD Thesis: " <i>Optimal reliability and design in systems with weighted components</i> " with K. Sarıkaya, January 2015.
3	PhD Thesis: " <i>Signature based reliability analysis of systems</i> " with C. Kan, June 2015. (Co-advisor)
4	PhD Thesis: " <i>Distribution theory of runs and run-related statistics in sequences of dependent trials</i> " with F. Yalçın, July 2013. (Co-advisor)
5	PhD Thesis: " <i>Statistical reliability of multi-state systems</i> " with F. İşçioğlu, July 2010.
6	PhD Thesis: " <i>Distribution theory of runs and patterns and their applications</i> " with S. Demir, October 2009.
7	MS Thesis: " <i>The lost capacity by the weighted-k-out-of-n reliability system and its application to optimal design</i> " with K. A. Ucum, July 2021.
8	MS Thesis: " <i>Reliability characteristics of a renewable hybrid energy system</i> " with I. Bulanik-Ozdemir, July 2021.
9	MS Thesis: " <i>Some reliability optimization problems in k-out-of-n systems</i> " with S. Gul Ozdamar, August 2019
10	MS Thesis: " <i>Phase-type distributions and their applications in reliability analysis</i> " with M. Tekin, September 2018.
11	MS Thesis: " <i>Reliability analysis of consecutive-k systems in stress-strength setup</i> " with F. Akıcı, June 2010.
12	MS Thesis: " <i>The signature of coherent systems and its application to consecutive k-within-m-out-of-n systems</i> " with C. Kan, June 2009.
13	MS Thesis: " <i>Reliability evaluation of systems with weighted components</i> " with T. Aksoy, June 2009.
14	MS Thesis: " <i>Reliability of k-out-of-n systems</i> " with E. Gürsoy, May 2006.
15	MS Thesis: " <i>Dependence structure and stochastic comparisons among concomitants of order statistics</i> " with F. Akdere, August 2005.
16	MS Thesis: " <i>Run statistics and their applications</i> " with S. Demir, March 2005.