

## Prof. TLAY KESEMEN

### Personal Information

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Address: KT, Fen Fakltesi, Matematik Blm

### Education Information

Doctorate, Karadeniz Technical University, Fen Fakltesi, Matematik Blm, Turkey 2001 - 2006

Post Graduate, Karadeniz Technical University, Fen Fakltesi, Matematik Blm, Turkey 1998 - 2001

Under Graduate, Karadeniz Technical University, Fatih Eēitim Fakltesi, Matematik ēretmenliēi, Turkey 1994 - 1998

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Other, Fen Bilimlerinde Arařtırma Projesi Hazırlama Eēitimi, KT, SEM, 2014

### Dissertations

Doctorate, Rasgele Hacimli Geniřletilmiř (s,S) Tipli Modellerin Analitik ve Asimptotik Yntemlerle İncelenmesi, (Investigation of Extended Models of Type (s,S) with Random Volume by Analytic and Asymptotic Methods), Karadeniz Technical University, Fen Bilimleri Enstitsi, Matematik, 2006

Post Graduate, Geniřletilmiř (s,S) Tipli Modellerin Analitik ve Asimptotik Yntemlerle İncelenmesi, (Investigated the Extended Models of Type (s,S) by Analytic and Asymptotic Methods), Karadeniz Technical University, Fen Bilimleri Enstitsi, Matematik, 2001

### Research Areas

Mathematics, Statistics, Probability Theory, Stochastic Processes, Natural Sciences

### Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakltesi, Matematik Blm, 2019 - Continues

Associate Professor, Karadeniz Technical University, Fen Fakltesi, Matematik Blm, 2014 - 2019

Assistant Professor, Karadeniz Technical University, Fen Edebiyat Fakltesi, Matematik Blm, 2008 - 2014

Lecturer, Karadeniz Technical University, Fen Edebiyat Fakltesi, Matematik Blm, 2006 - 2008

Research Assistant, Karadeniz Technical University, Fen Edebiyat Fakltesi, Matematik Blm, 2002 - 2006

## Advising Theses

- KESEMEN T., Ders Aşaması, Doctorate, F. BAGHEZZA(Student), Continues
- KESEMEN T., Ders Aşaması, Doctorate, B.Alakoç(Student), Continues
- Kesemen T., RASTGELE KISMİ DİFERANSİYEL DENKLEMLER ve RASTGELE KESİRLİ MERTEBEDEN KISMİ DİFERANSİYEL DENKLEMLERİN ANALİZİ, Doctorate, H.Anaç(Student), 2020
- KESEMEN T., Talep Miktarlarının Ağır Kuyruklu Gamma-g Sınıfından Dağılıma Sahip (s,S) Tipli Envanter Modellerin Yaklaşık Yöntemlerle İncelenmesi, Post Graduate, B.Alakoç(Student), 2020
- KESEMEN T., Biyokimyasal Reaksiyon Modelinin Rastgele Özelliklerinin Farklı Olasılık Dağılımları ile İncelenmesi, Post Graduate, G.Karaaslan(Student), 2019
- KESEMEN T., Bazı Kompartmanlı Modellerin Rasgele Etkiler Altında İncelenmesi, Doctorate, Z.BEKİRYAZICI(Student), 2017
- KESEMEN T., Talep Miktarı Sonlu Varyanslı Ağır Kuyruklu Dağılıma Sahip (s,S) Tipli Envanter Modellerin Asimptotik Ve Yaklaşık Yöntemlerle İncelenmesi, Post Graduate, E.Şenol(Student), 2017
- KESEMEN T., (s,S) Tipli Envanter Modellerin Ağır Kuyruklu Dağılımların Belirli Alt Sınıfları ile İncelenmesi, Doctorate, A.BEKTAŞ(Student), 2017
- KESEMEN T., Dang Humması Hastalığının Rasgele Etkiler Altında Matematiksel Modellenmesi, Post Graduate, M. (Mehmet(Student), 2016
- KESEMEN T., Genelleştirilmiş Beta Müdahaleli (s,S) Tipli Rasgele Yürüyüş Süreci, Post Graduate, Ç.ÖCAL(Student), 2013
- KESEMEN T., Geçikmeli ve Pareto Müdahaleli Ödüllü Yenileme Süreçlerinin Sınır Fonksiyonlarının İncelenmesi, Post Graduate, Ş.DEMİR(Student), 2013
- KESEMEN T., Pareto Müdahaleli yarı-Markov Süreçlerinin Asimptotik Yöntemlerle incelenmesi, Post Graduate, F.YETİM(Student), 2013
- KESEMEN T., Belirsizlik Altında Sürekli Dağılımlar, Post Graduate, S.TURHAN(Student), 2010

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Modification of the random differential transformation method and its applications to compartmental models**  
Bekiryazici Z., MERDAN M., KESEMEN T.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, 2020 (Journal Indexed in SCI)
- II. **A semi-Markovian renewal reward process with Gamma(g) distributed demand**  
Kamışlık A. B. , Alakoc B., KESEMEN T., Khaniyev T.  
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.1, pp.1250-1262, 2020 (Journal Indexed in SCI)
- III. **Inventory model of type (s, S) under heavy tailed demand with infinite variance**  
Kamışlık A. B. , KESEMEN T., Khaniyev T.  
BRAZILIAN JOURNAL OF PROBABILITY AND STATISTICS, vol.33, pp.39-56, 2019 (Journal Indexed in SCI)
- IV. **Deterministic stability and random behavior of a Hepatitis C model**  
MERDAN M., Bekiryazici Z., KESEMEN T., Khanlyev T.  
PLOS ONE, vol.12, 2017 (Journal Indexed in SCI)
- V. **Deterministic stability and random behavior of a Hepatitis C model**  
Merdan M., Bekiryazıcı Z., KESEMEN T., Khaniyev T.  
PLOS ONE, vol.12, pp.1-17, 2017 (Journal Indexed in SCI Expanded)
- VI. **Comparison of stochastic and random models for bacterial resistance**  
MERDAN M., Bekiryazici Z., KESEMEN T., Khaniyev T.  
ADVANCES IN DIFFERENCE EQUATIONS, 2017 (Journal Indexed in SCI)
- VII. **Three-term asymptotic expansion: A semi-Markovian random walk with a generalized beta distributed interference of chance**  
Kesemen T., KÜÇÜK Z., Khaniyev T., Öcal C.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.46, pp.1445-1455, 2017 (Journal Indexed in SCI)
- VIII. **SOME ASYMPTOTIC RESULTS FOR A SEMI-MARKOVIAN RANDOM WALK WITH A SPECIAL BARRIER**

- Aliyev R., KESEMEN T., Khaniyev T.  
PAKISTAN JOURNAL OF STATISTICS, vol.30, pp.411-428, 2014 (Journal Indexed in SCI)
- IX. **ON THE SEMI-MARKOVIAN RANDOM WALK WITH DELAY AND WEIBULL DISTRIBUTED INTERFERENCE OF CHANCE**  
Kesemen T.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.42, pp.299-307, 2013 (Journal Indexed in SCI)
- X. **Limit distribution for a semi-Markovian random walk with Weibull distributed interference of chance**  
KESEMEN T., Aliyev R., Khaniyev T.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (Journal Indexed in SCI)
- XI. **Asymptotic Expansions for the Moments of the Semi-Markovian Random Walk with Gamma Distributed Interference of Chance**  
Aliyev R., Khaniyev T., KESEMEN T.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.39, pp.130-143, 2010 (Journal Indexed in SCI)
- XII. **Asymptotic expansions for the moments of a semi-Markovian random walk with exponential distributed interference of chance**  
Khaniyev T., KESEMEN T., Aliyev R., KOKANGÜL A.  
STATISTICS & PROBABILITY LETTERS, vol.78, pp.785-793, 2008 (Journal Indexed in SCI)
- XIII. **The asymptotic results for the stationary characteristics of the semi-Markovian random walk with a barrier**  
Khaniyev T., KESEMEN T., KESEMEN O., Aliyev R.  
AUTOMATIC CONTROL AND COMPUTER SCIENCES, vol.1, no.1, pp.31-43, 2006 (Journal Indexed in SCI Expanded)
- XIV. **Certain asymptotic result for extended model of (s,S)**  
Khaniyev T., ÜNVER İ., KESEMEN T.  
Theory of Stochastic Processes, vol.1, no.2, pp.192-200, 2002 (Journal Indexed in SSCI)

## Articles Published in Other Journals

- I. **Analysis of The Dynamics of The Classical Epidemic Model with Beta Distributed Random Components**  
Kesemen T., Merdan M., Bekiryazıcı Z.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, pp.1956-1965, 2020 (National Refreed University Journal)
- II. **Solving for the random component time-fractional partial differential equations with the new Sumudu transform iterative method**  
Kesemen T., Merdan M., Anaç H.  
SN Applied Sciences, vol.1, no.1, pp.1-10, 2020 (Journal Indexed in ESCI)
- III. **APPLICATION OF CRANK-NICOLSON METHOD TO A RANDOM COMPONENT HEAT EQUATION**  
Anac H., MERDAN M., KESEMEN T.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, pp.475-480, 2020 (Journal Indexed in ESCI)
- IV. **THE NEW SUMUDU TRANSFORM ITERATIVE METHOD FOR STUDYING THE RANDOM COMPONENT TIME-FRACTIONAL KLEIN-GORDON EQUATION**  
MERDAN M., ANAÇ H., KESEMEN T.  
Sigma J Eng & Nat Sci, vol.10, no.3, pp.343-354, 2019 (Journal Indexed in ESCI)
- V. **Investigation of Random and Stochastic Models for CD8 T Cell Immune Response**  
Merdan M., Bekiryazıcı Z., KESEMEN T., Anaç H.  
Journal of Abstract and Computational Mathematics, vol.-, no.2, pp.37-48, 2019 (Refereed Journals of Other Institutions)
- VI. **Solving of Some Random Partial Differential Equations by Using Differential Transformation Method and Laplace- Padé Method**

Merdan M., Anaç H., Bekiryazıcı Z., KESEMEN T.

GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.9, no.1, pp.108-118, 2019 (International Refereed University Journal)

**VII. THE NEW SUMUDU TRANSFORM ITERATIVE METHOD FOR STUDYING THE RANDOM COMPONENT TIME-FRACTIONAL KLEIN-GORDON EQUATION**

MERDAN M., Anac H., KESEMEN T.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.10, pp.343-354, 2019 (Journal Indexed in ESCI)

**VIII. Analyzing the Dynamics of Ebola Transmission with Random Effects**

Merdan M., Bekiryazıcı Z., KESEMEN T., Khaniyev T.

Communications in Mathematical Biology and Neuroscience, vol.2018, no.22, pp.1-17, 2018 (Journal Indexed in ESCI)

**IX. Üçgensel Müdahaleli Yarı-Markov (s,S) Tipli Modellerin Momentleri İçin Tahmin Ediciler**

ERİŞ BÜYÜKKAYA M., BEKTAŞ KAMIŞLIK A., KESEMEN T.

Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, no.2, pp.430-441, 2018 (Refereed Journals of Other Institutions)

**X. On The Moments for Ergodic Distribution of an Inventory Model of Type (s; S) with Regularly Varying Demand Having Infinite Variance**

Bektaş Kamışlık A., KESEMEN T., Khaniyev T.

Journal of Applied and Engineering Mathematics, vol.8, pp.318-329, 2018 (Refereed Journals of Other Institutions)

**XI. ANALYZING THE DYNAMICS OF EBOLA TRANSMISSION WITH RANDOM EFFECTS**

MERDAN M., Bekiryazıcı Z., KESEMEN T., Khaniyev T.

COMMUNICATIONS IN MATHEMATICAL BIOLOGY AND NEUROSCIENCE, 2018 (Journal Indexed in ESCI)

**XII. Stochastic and random models of Malaria Disease with vertical transmission**

Bekiryazıcı Z., KESEMEN T., Merdan M.

New Trends in Mathematical Sciences, vol.5, no.1, pp.269-277, 2017 (International Refereed University Journal)

**XIII. Mathematical Modeling of Biochemical Reactions Under Random Effects**

Bekiryazıcı Z., Merdan M., KESEMEN T., Khaniyev T.

Turkish Journal of Mathematics and Computer Science, vol.5, pp.8-18, 2016 (Refereed Journals of Other Institutions)

**XIV. Inventory Model of Type (s,S) With Subexponential Weibull Distrubuted Demand**

KESEMEN T., Bektaş Kamışlık A., KÜÇÜK Z., Şenol E.

Journal Of The Turkish Statistical Association, vol.--, no.3, pp.81-92, 2016 (Refereed Journals of Other Institutions)

**XV. Mathematical Modeling of Dengue Disease under Random Effects**

Bekiryazıcı Z., Merdan M., KESEMEN T., Najmuldeen M.

MATHEMATICAL SCIENCES AND APPLICATIONS E-NOTES, no.2, pp.0-70, 2016 (Refereed Journals of Other Institutions)

**XVI. On The Application Of Random Walk With Delay And Pareto Distributed Interference Of Chance To An Insurance Model**

KESEMEN T., KÜÇÜK Z., Khaniyev T., YETİM F., Bektas Kamislik A.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.29, pp.615-626, 2016 (Journal Indexed in ESCI)

**XVII. Aysmptotic results for boundary functionals of renewal-reward process with delay and pareto distribution interference of chance**

KESEMEN T., Küçük Z., Demir Ş., Kamışlık Bektaş A.

Journal of Selçuk University Natural and Applied Science, vol.3, no.3, pp.1-10, 2014 (Refereed Journals of Other Institutions)

**XVIII. Asymptotic results for boundary functionals of renewal-reward process with delay and pareto distribution intreferece of chance**

KÜÇÜK Z., KESEMEN T., Demir Ş., Bektaş Kamışlık A.

Journal of Selçuk University Natural and Applied Science, vol.3, pp.1-12, 2014 (International Refereed University Journal)

- XIX. **Pareto Distribution and Numerical Characteristics of This Distribution Under Uncertainty**  
 ERBAY DALKILIÇ T., KESEMEN T., TANK F.  
 Journal Of The Turkish Statistical Association, vol.6., no.2, pp.66-72, 2013 (Refereed Journals of Other Institutions)
- XX. **Numerical Characteristics Of Pareto Distribution Under Uncertainty**  
 ERBAY DALKILIÇ T., Kesemen T., Tank F.  
 Journal Of The Turkish Statistical Association, vol.6, pp.66-72, 2013 (Refereed Journals of Other Institutions)
- XXI. **Pareto Müdahaleli yarı-Markov Süreçleri için Asimptotik Sonuçlar**  
 KESEMEN T., Aliyev R., ÜNVER İ.  
 7. İstatistik Günleri Sempozyumu Bildiriler Kitabı,28-30 Haziran, Ankara, vol.1, no.2, pp.95-100, 2010 (Other Refereed National Journals)
- XXII. **Approximations for the stationary Characteristics of the extended model of (s,S) with Delay**  
 KHANİYEV T., Kesemen O., KESEMEN T.  
 Proceeding of the 6th International Symposium on Intelligent and Manufacturing Systems., vol.1, no.2, pp.356-366, 2008 (Refereed Journals of Other Institutions)
- XXIII. **5. İstatistik Kongresi, Bildiri Kitabı**  
 KESEMEN T., Aliyev R., KHANİYEV T.  
 Geçikmeli Yarı- Markov Rasgele Yürüyüş Süreçleri için Asimptotik Sonuçları, vol.3, no.1, pp.689-693, 2007 (Other Refereed National Journals)
- XXIV. **Erlang Müdahaleli ve Geçikmeli Yarı- Markov Rasgele Yürüyüş Süreçleri için Asimptotik Sonuçları**  
 KESEMEN T., KHANİYEV T.  
 XX. Ulusal Matematik Sempozyumu Bildiriler Kitabı, vol.1, no.1, pp.281-285, 2007 (Other Refereed National Journals)
- XXV. **Certain asymptotic results for the stationary characteristics of semimarkovian random walk with constraint**  
 KHANIEV T., KESEMEN T., KESEMEN O., ALIEV R.  
 Automatic Control and Computer Sciences, vol.40, pp.26-37, 2006 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **OLASILIK KURAMINDA ÇÖZÜMLÜ PROBLEMLER**  
 HANALIOĞLU T., ÜNVER İ., KÜÇÜK Z., KESEMEN T.  
 NOBEL YAYINEVİ, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF RANDOM ZIKA VIRUS TRANSMISSION WITH MODIFIED RANDOM DIFFERENTIAL TRANSFORMATION METHOD**  
 Bekiryazıcı Z., Kesemen T., Merdan M., Hanalioğlu T.  
 9TH INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, 25 - 28 August 2020, pp.114-116
- II. **Intuitive Approximation for Renewal Reward Process with  $\Gamma(g)$  Distributed Demand**  
 Alakoç B., Kesemen T., Bektaş Kamsılık A., Hanalioğlu T.  
 3 rd INTERNATIONAL E-CONFERENCE ON MATHEMATICAL ADVANCES AND ITS APPLICATIONS, İstanbul, Turkey, 24 - 27 June 2020, pp.42
- III. **Homotopy Perturbation Elzaki Transform Method to Random Component Partial Differential Equations**  
 Anaç H., Merdan M., Kesemen T.  
 3 rd INTERNATIONAL CONFERENCE on MATHEMATICAL ADVANCES and APPLICATIONS (ICOMAA2020), İstanbul, Turkey, 24 - 27 July 2020, pp.95

- IV. **Projected differential transform method to some random component nonlinear partial differential equations with proportional delay**  
 MERDAN M., ANAÇ H., KESEMEN T.  
 International Conference on Mathematics and Mathematics Education (ICMME 2019), Konya, Turkey, 11 - 13 July 2019, pp.187-188
- V. **Applications of Crank-Nicolson method to some random component partial differential equations**  
 ANAÇ H., MERDAN M., KESEMEN T.  
 International Conference on Mathematics and Mathematics Education (ICMME 2019), Konya, Turkey, 11 - 13 July 2019, pp.181-182
- VI. **Inventory Model of Type (s,S) with  $\lambda$  Distributed Component**  
 Bektaş Kamlık A., Alakoç B., KESEMEN T., Khaniyev T.  
 2nd INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES ICMRS 2019, Antalya, Turkey, 27 - 30 April 2019, pp.45
- VII. **Generalized Beta Distributed Parameters for a SVEIR-Type Random Model of Polio Transmission**  
 Bekiryazıcı Z., KESEMEN T., Merdan M.  
 7 th International Eurasian Conference on Mathematical Sciences and Applications, Kiyev, Ukraine, 28 - 31 August 2018, pp.149
- VIII. **On The Estimator of Semi-Markovian Inventory Model with Subexponential Component**  
 ERİŞ BÜYÜKKAYA M., BEKTAŞ KAMIŞLIK A., KESEMEN T., HANALIOĞLU T.  
 INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS (ICRAPAM2018), 23 - 27 July 2018, pp.56-57
- IX. **Analysis of a Pneumonia Transmission Model with Random Components**  
 Bekiryazıcı Z., KESEMEN T., Merdan M.  
 INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS (ICRAPAM2018), Trabzon, Turkey, 23 - 27 July 2018, pp.39-40
- X. **A New Estimator for Ergodic Distribution of a Semi-Markovian Renewal Reward Process when Demand Distributions Belongs to the  $L \cap D$  Subclass of Heavy Tailed Distributions**  
 BEKTAŞ KAMIŞLIK A., ERİŞ BÜYÜKKAYA M., KESEMEN T.  
 International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.751-752
- XI. **A Comparison of Variation Coefficients of Biochemical Reaction Model for Several Probability Distributions**  
 KESEMEN T., Bekiryazıcı Z., Khaniyev T., Karaaslan G.  
 International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.743-744
- XII. **Fractional Variational Iteration Method for the Random Component Time-Fractional Fornberg-Whitham Equation**  
 Merdan M., Anaç H., KESEMEN T.  
 International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.277-278
- XIII. **Applications of Differential Transform Method to Some Random Component Time-Fractional Partial Differential Equations**  
 Merdan M., Anaç H., KESEMEN T.  
 International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.251-252
- XIV. **Investigation of A Model For Polio By Using Random Differential Equations and Parameters with Gaussian Distribution**  
 Bekiryazıcı Z., KESEMEN T., Merdan M.  
 International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.783-784
- XV. **The Class of L boolean AND D and Its Application to Renewal Reward Process**

Kamislik A. B. , KESEMEN T., Khaniyev T.

6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Budapest, Hungary, 15 - 17 August 2017, vol.1926

- XVI. **Generalized Beta Parameters for a SVEIR-Type Random Model of Polio Transmission**  
Bekiryazici Z., MERDAN M., KESEMEN T.  
7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Kyiv, Ukraine, 28 - 31 August 2018, vol.2037
- XVII. **The Class of  $L ? D$  and Its Application to Renewal Reward Process**  
Kamışlık Bektaş A., KESEMEN T., KHANİYEV T.  
6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2017), Budapest, Hungary, 15 - 18 August 2017, pp.99
- XVIII. **"Investigation of the moments for a random model of cholera disease**  
Merdan M., KESEMEN T., Bekiryazıcı Z.  
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 3 - 07 July 2017, pp.253
- XIX. **Approximate Results for a Semi Markovian Inventory Model with Regularly Varying Component**  
Bektaş Kamışlık A., KESEMEN T., KHANİYEV T., ŞENOL E.  
Int. Conference on App. Analysis and Math. Modeling, ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017, pp.1-2
- XX. **Application of Differential Transformation Method for Solving Some Random Partial Differential Equations**  
Merdan M., KESEMEN T., Anaç H., Bekiryazıcı Z.  
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.430-431
- XXI. **Analyzing the Moments of the Classical Epidemic Model under Random Effects**  
Merdan M., Bekiryazıcı Z., KESEMEN T.  
International Conference on Mathematics and Engineering,, İstanbul, Turkey, 10 - 12 May 2017, pp.343
- XXII. **Moments of Epidemic Models with Random Initial Data**  
Bekiryazıcı Z., Merdan M., KESEMEN T.  
International Conference on Mathematics and Engineering,, İstanbul, Turkey, 10 - 12 May 2017, pp.360
- XXIII. **"Analysing the Early-Stage Dynamics of a Model for Ebola Virus Under Random Effects**  
Merdan M., Bekiryazıcı Z., KESEMEN T.  
International Workshop on Mathematical Methods in Engineering,, Ankara, Turkey, 27 - 29 April 2017, pp.51
- XXIV. **Stochastic Modeling of Immune-Mediated Disorder in Inflammatory Bowel Disease**  
Bekiryazıcı Z., Merdan M., KESEMEN T., Khaniyev T.  
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.3529-3530
- XXV. **Some Statistical Characteristics of the Biochemical Reaction Model under Triangular Random Effects**  
Bekiryazıcı Z., KESEMEN T., Merdan M., Bektaş Kamışlık A.  
Xth International Statistics Days Conference, Giresun, Turkey, 7 - 09 October 2016, pp.354-360
- XXVI. **On the Asymptotic Expansion for the Moments of an Inventory Model of Type  $(s,S)$  with Subexponential Demand and Uniform Distributed Interference of Chance**  
KESEMEN T., Bektaş Kamışlık A., KÜÇÜK Z.  
5th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2016), Belgrade, Serbia And Montenegro, 16 - 19 August 2016, pp.194-195
- XXVII. **Limit Distribution for a Semi-Markovian Inventory Model of Type  $(s,S)$  Under Heavy Tailed Demand with Infinite Variance**  
Bektaş Kamışlık A., Khaniyev T., KESEMEN T.  
5th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2016), Belgrade, Serbia And Montenegro, 16 - 19 August 2016, pp.185-186
- XXVIII. **Stochastic and Random Behavior Model for Immune System Response and Bacterial Resistance with Antibiotic Therapy**

- Bekiryazıcı Z., Merdan M., Khaniyev T., KESEMEN T.  
th International Eurasian Conference on Mathematical Sciences and Applications, Belgrade, Serbia And Montenegro, 16 - 19 August 2016, pp.128-129
- XXIX. **On the Moments of Semi-Markovian Inventory Model When the Demand Distribution Belongs to the General Class of Regularly Varying Distributions with Infinite Variance**  
Bektaş Kamışlık A., KESEMEN T., ŞENOL E.  
International Conference on Recent Advances in Pure and Applied Mathematics 2016 (ICRAPAM 2016), Muğla, Turkey, 19 - 23 May 2016, pp.121-122
- XXX. **Modelling of Dengue Disease under Laplacian Random Effects**  
Bekiryazıcı Z., KESEMEN T., Merdan M., Najmudeen M.  
International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016, pp.142-143
- XXXI. **Random Modelling of Biochemical Reactions under Gaussian Random Effects**  
Bekiryazıcı Z., Merdan M., KESEMEN T., Khaniyev T.  
International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016, pp.192-193
- XXXII. **Deterministic and stochastic stability of models for hepatitis C**  
Merdan M., Bekiryazıcı Z., KESEMEN T.  
7th International Conference of Mathematical Analysis, Differential Equations and their Applications, Baku, Azerbaijan, 8 - 13 September 2015, pp.114
- XXXIII. **Inventory Model of Type (s,S) with Regularly Varying Demands Having Infinite Variance**  
Bektaş Kamışlık A., KESEMEN T., Khaniyev T.  
4th International Eurasian Conference on Mathematical Sciences and Applications, Atina, Greece, 31 August - 03 September 2015, pp.98-99
- XXXIV. **'Moments of an Inventory Model of Type (s,S) with Heavy Tailed and Infinitely Varying Demands**  
Bektaş Kamışlık A., KESEMEN T., Khaniyev T., KÜÇÜK Z.  
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- XXXV. **Use of Gamma Distribution for Daily Rainfall Amount Under Uncertainty**  
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## Supported Projects

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## Scientific Refereeing

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## Awards

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KESEMEN T., Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2006 Yılı Lisansüstü Başarı Belgesi., Fen Bilimleri

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KESEMEN T., Karadeniz Teknik Üniversitesi, Fatih Eğitim Fakültesi, Matematik Öğretmenliği Bölümü,, Bölüm birinciliği,  
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