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International Researcher IDs

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Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, Turkey 2014 - 2021

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, Turkey 2011 - 2014

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, Turkey 2006 - 2010

Dissertations

Doctorate, EARTHQUAKE FORECAST AND HAZARD ANALYSIS BY COMBINING BAYES METHOD AND DIFFERENT DISTRIBUTION METHODS FOR THE NORTH ANATOLIAN FAULT ZONE (NAFZ) AND EAST ANATOLIAN FAULT ZONE (EAFZ), Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2021

Postgraduate, BATI ANADOLU BÖLGESİ VE CİVARI İÇİN DEPREM TEHLİKE PARAMETRELERİN BAYES YAKLAŞIMI YÖNTEMİ İLE DEĞERLENDİRİLMESİ , Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2014

Research Areas

Geophysical Engineering, Seismology, Earthquake Seismology, Computer Sciences, algorithms, Mathematics, Probability Theory, Stochastic Processes, Numerical Analysis, System Theory: Control, Statistics, Statistical Analysis and Applications, Natural Sciences, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluating of the earthquake hazard parameters with Bayesian method for the different seismic source regions of the North Anatolian Fault Zone**
Bayrak Y., TÜRKER T.
NATURAL HAZARDS, vol.85, no.1, pp.379-401, 2017 (SCI-Expanded)
- II. **A Quantitative Appraisal of Earthquake Hazard Parameters Evaluated from Bayesian Approach for Different Regions in Iranian Plateau**
Mohammadi H., TÜRKER T., Bayrak Y.
PURE AND APPLIED GEOPHYSICS, vol.173, no.6, pp.1971-1991, 2016 (SCI-Expanded)
- III. **The Determination of Earthquake Hazard Parameters Deduced from Bayesian Approach for**

Different Seismic Source Regions of Western Anatolia

Bayrak Y., TÜRKER T.

PURE AND APPLIED GEOPHYSICS, vol.173, no.1, pp.205-220, 2016 (SCI-Expanded)

IV. Earthquake hazard analysis for East Anatolian Fault Zone, Turkey

BAYRAK E., YILMAZ Ş., Softa M., TÜRKER T., Bayrak Y.

NATURAL HAZARDS, vol.76, no.2, pp.1063-1077, 2015 (SCI-Expanded)

Articles Published in Other Journals

I. Assessment of Earthquake Hazard Parameters with Bayesian Approach Method Around Karlioğlu Triple Junction, Eastern Turkey

TÜRKER T., BAYRAK Y.

IOP Conference Series: Earth and Environmental Science, vol.95, 2017 (Peer-Reviewed Journal)

II. Spatial Variation of Seismic B-Values of the Empirical Law of the Magnitude-Frequency Distribution from a Bayesian Approach Based on Spline (B-Spline) Function in the North Anatolian Fault Zone, North of Turkey

TÜRKER T., BAYRAK Y.

Assessment of Earthquake Hazard Parameters with Bayesian Approach Method Around Karlioğlu Triple Junction, Eastern Turkey IOP Conference Series: Earth and Environmental Science, vol.95, 2017 (Peer-Reviewed Journal)

III. A POISSON METHOD APPLICATION TO THE ASSESSMENT OF THE EARTHQUAKE HAZARD IN THE NORTH ANATOLIAN FAULT ZONE, TURKEY

Türker T.

Challenge Journal of Structural Mechanics, vol.2, no.2, pp.109-121, 2016 (Peer-Reviewed Journal)

IV. An Evaluation of Earthquake Hazard Parameters in and around Ağrı Eastern Anatolia Turkey

BAYRAK Y., BAYRAK E., YILMAZ Ş., TÜRKER T.

Eastern Anatolian Journal of Science, vol.1, no.1, pp.1-9, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Spatial and Temporal Variations of Gutenberg-Richter b-Values Using Classic Method of Moment (CMM) and Seismicity in and Around Van Lake

TÜRKER T., BAYRAK Y.

3rd International Symposium on Natural Hazards and Disaster Management (ISHAD2019), Van, Turkey, 25 - 26 October 2019, pp.1-8

II. BAYESIAN PROBABILITIES OF EARTHQUAKE OCCURRENCES IN THE EAST ANATOLIAN AND SURROUNDINGS (EASTERN TURKEY)

TÜRKER T., BAYRAK Y.

New Trends in Geophysics and Engineering (International Symposium) 2018 7-9 November 2018, Istanbul, Turkey, Istanbul, Turkey, 7 - 09 November 2018, pp.166-169

III. Preliminary Estimates Part 1: Statistical Analysis of Earthquake Catalogue with the Geographic Information Systems (Cbs) in the Aegean Sea and Surrounding, Western Turkey

TÜRKER T., BAYRAK Y.

INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE, Kastamonu, Turkey, 26 - 29 April 2018, pp.362-369

IV. Final Estimates Part 2: Probability Models of Earthquake Occurrences using Kriging Method with the Geographic Information Systems (Cbs) in the Aegean Sea and Surrounding, Western Turkey

TÜRKER T., BAYRAK Y.

INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE (ICELIS, Kastamonu, Turkey, 26 - 29 April 2018, pp.380-386

- V. **PRELIMINARY RESULTS PART 1: INVESTIGATING OF EARTHQUAKE OCCURRENCES WITH DIFFERENT DISTRIBUTION MODELS IN THE MARMARA SEA AND SURROUNDING, TURKEY**
TÜRKER T., BAYRAK Y.
ICES-2018 1st International Congress on New Horizons in Education and Social Sciences, İstanbul, Turkey, 9 - 11 April 2018, pp.14-23
- VI. **FINAL RESULTS PART 2: CREATING OF PREDICTION MODEL MAPS OF EARTHQUAKE OCCURRENCES WITH GEOGRAPHIC INFORMATION SYSTEMS (GIS) IN THE MARMARA SEA AND SURROUNDING, TURKEY**
TÜRKER T., BAYRAK Y.
ICES-2018 1st International Congress on New Horizons in Education and Social Sciences, İstanbul, Turkey, 9 - 11 April 2018, pp.24-32
- VII. **Creating of Probability Maps of Earthquake Occurrences Using Kriging Method With the Geographic Information Systems (GIS): Estimates for 3 Section of the NAFZ (Western, Central, Eastern)-Part**
TÜRKER T., BAYRAK Y.
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES'18), May 11-13, 2018 Safranbolu, Turkey, SAFRANBOLU, Turkey, 11 - 13 May 2018, pp.547-549
- VIII. **Interpolation with Uncertain Spatial Covariances: Modeling to Probability Estimations of Earthquake Occurrences Using Kriging Method in the East Anatolian Fault Zone (Eastern Turkey)**
TÜRKER T., BAYRAK Y.
2ND International Symposium on Natural Hazards and Disaster Management 04-06 MAY 2018 (ISHAD2018 Sakarya Turkey), Sakarya, Turkey, 4 - 06 May 2018, pp.187-194
- IX. **An Interpolation Applied with Barriers: Modeling to Predictions of Earthquake Occurrences Using Kernel Smoothing and Diffusion Kernel Methods in The Marmara Sea, Turkey**
TÜRKER T., BAYRAK Y.
2ND International Symposium on Natural Hazards and Disaster Management 04-06 MAY 2018 (ISHAD2018 Sakarya Turkey), Sakarya, Turkey, 4 - 06 May 2018, pp.195-202
- X. **Evaluating of Earthquake Hazard Parameters (EHP) With Bayesian Approach Method in Sakarya and Surrounding, Turkey**
TÜRKER T., BAYRAK Y.
2ND International Symposium on Natural Hazards and Disaster Management 04-06 MAY 2018 (ISHAD2018 Sakarya Turkey), Sakarya, Turkey, 4 - 06 May 2018, pp.278-285
- XI. **Spatial Variations of b-values of magnitude-frequency distribution from A Bayesian Approach Based on Spline Smooth (B-spline) function around Karlıova Triple Junction (Eastern Turkey)**
TÜRKER T., BAYRAK Y.
IV. INTERNATIONAL MULTIDISCIPLINARY CONGRESS OF EURASIA (IMCOFE), ROMA, Italy, 23 - 25 August 2017
- XII. **Appraisal of Earthquake Hazard Parameters with Bayesian Method in and around Sea of Marmara, Northwest Turkey**
TÜRKER T., BAYRAK Y.
IV. INTERNATIONAL MULTIDISCIPLINARY CONGRESS OF EURASIA (IMCOFE), ROMA, Italy, 23 - 25 August 2017
- XIII. **Bayesian Probabilities Of Earthquake Occurrences In And Around The Marmara Sea (Western Nafz), Turkey**
TÜRKER T., BAYRAK Y.
9th Congress of the Balkan Geophysical Society (bgs2017), Antalya, Turkey, Turkey, 5 - 09 November 2017
- XIV. **Identifying Of Earthquake Hazard Parameters With Bayesian Method For Cyprus, Southern Turkey**
TÜRKER T., BAYRAK Y.
9th Congress of the Balkan Geophysical Society (BGS2017), Antalya, Turkey, Turkey, 5 - 09 November 2017
- XV. **Analysis of Spatial and Temporal Variation of Earthquake Hazard Parameters from A Bayesian Approach in and Araound the armara Sea**
BAYRAK Y., TÜRKER T., BAYRAK E.
4. UDMSK, 11 - 13 October 2017
- XVI. **Bayesian Probabilities of Earthquake Occurrences in the East Anatolian Fault Zone (Turkey)**

TÜRKER T., BAYRAK Y., BAYRAK E.

4 th ICEES, Eskişehir, Turkey, 11 - 13 October 2017

- XVII. **Analysis of Spatial and Temporal variation of Earthquake Hazard Parameters from A Bayesian Approach in and around The Marmara Sea**

BAYRAK Y., TÜRKER T., BAYRAK E.

4 th ICEES, Eskişehir, Turkey, 11 - 13 October 2017

- XVIII. **Bayesian Probabilities of Earthquake Occurrences In and Around The Marmara Sea (Western Nafz)**

TÜRKER T., BAYRAK Y.

BGS 2017, 5 - 09 October 2017

- XIX. **Spatial-Temporal Variation of b-values of magnitude-frequency Distribution from a Bayesian Approach Based on b-spline Smooth Functiond in and Around Ağrı, International Conference in Applied and Natural Sciences**

BAYRAK Y., TÜRKER T., BAYRAK E.

ICANAS 2017, 18 - 21 April 2017

- XX. **Regional Moment Tensor Analysis of Recent Ağrı Eleşkirt Earthquakes: Preliminary Results, International Conference in Applied and Natural Sciences**

BAYRAK Y., IRMAK T. S., LİVAOĞLU H., TÜRKER T.

ICANAS 2017, 18 - 21 April 2017

- XXI. **Analysis Earthquake Hazard Parameters Using Bayesian Metod in and Araound Lake Van, Eastern Anatolia, International Conference in Applied and Natural Sciences**

TÜRKER T., BAYRAK Y., BAYRAK E.

ICANAS 2017, 18 - 21 April 2017

- XXII. **Analysis of Earthquake Hazard Parameters Using Bayesian Method in and around Lake Van, Eastern Turkey**

TÜRKER T., BAYRAK Y., BAYRAK E.

International Conference on Advances in Natural and Applied Sciences ICANAS 2017, Antalya, Turkey, 18 - 21 April 2017

- XXIII. **Regional Moment Tensor Analysis of Recent Ağrı Eleşkirt Earthquakes: Preliminary Results**

BAYRAK Y., IRMAK T. S., LİVAOĞLU H., TÜRKER T.

International Conference On Advances in Natural And Applied Sciences ICANAS 2017, Antalya, Turkey, 18 - 21 April 2017

- XXIV. **Spatial-Temporal Variations of b-values of magnitude-frequency distribution from A Bayesian Approach Based on B-spline smooth function in and around Agri**

BAYRAK Y., TÜRKER T., BAYRAK E.

International Conference on Advances in Natural and Applied Sciences ICANAS 2017, Antalya, Turkey, 18 - 21 April 2017

- XXV. **Spatial Variation of Seismic B-Values of the Empirical Law of the Magnitude-Frequency Distribution from a Bayesian Approach Based On Spline (B-Spline) Function in the North Anatolian Fault Zone, North of Turkey**

TÜRKER T., BAYRAK Y.

3rd World Multidisciplinary Earth Sciences Symposium (WMESS), Prague, Czech Republic, 11 - 15 September 2017, vol.95

- XXVI. **Assessment of Earthquake Hazard Parameters with Bayesian Approach Method Around Karliova Triple Junction, Eastern Turkey**

TÜRKER T., Bayrak Y.

3rd World Multidisciplinary Earth Sciences Symposium (WMESS), Prague, Czech Republic, 11 - 15 September 2017, vol.95

- XXVII. **A POISSON MODEL EVALUATION OF EARTHQUAKE HAZARD PARAMETERS FOR THE EAST ANATOLIAN FAULT**

TÜRKER T., BAYRAK Y.

INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCE (ICENS 2016), Sarajevo, Bosnia And

Herzegovina, 24 - 28 May 2016, pp.1186-1191

- XXVIII. **A Front View of Seismicity According to Prediction Earthquake Hazard Parameters Using Different Statistic Models in the Western Anatolia WA West Turkey**

TÜRKER T., BAYRAK Y.

3. International conference on Computational and Experimental Science and Engineering (ICCES-2016), 19 - 24 October 2016

- XXIX. **A FRONT VIEW OF SEISMICITY ACCORDING TO PREDICTION EARTHQUAKE HAZARD PARAMETERS USING DIFFERENT STATISTIC MODELS IN THE WESTERN ANATOLIAN WA WEST TURKEY**

TÜRKER T., BAYRAK Y.

3rd INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING 2016, Antalya, Turkey, 19 - 24 October 2016

- XXX. **A Bayesian Model Application to Determining of Earthquake Hazard Parameters from Different Seismic Source Regions in and around Ağrı**

TÜRKER T., BAYRAK Y.

3rd INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING 2016, Antalya, Turkey, 19 - 24 October 2016

- XXXI. **A Position Model Evaluation of Earthquake Hazard Parameters for the East Anatolian Fault**

TÜRKER T., BAYRAK Y.

International Conference On Engineering and Applied Sciences (ICENS 2016), 24 - 28 May 2016

- XXXII. **A Poisson Method Application to the Assessment of the Earthquake Hazard in the North Anatolian Fault Zone, Turkey**

TÜRKER T., Bayrak Y.

International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Turkey, 21 - 23 April 2016, vol.1726

- XXXIII. **The Evaluation of the Earthquake Hazard Using the Exponential Distribution Method for Different Seismic Source Regions in and around Agri**

Bayrak Y., TÜRKER T.

International Conference on Advances in Natural and Applied Sciences (ICANAS), Antalya, Turkey, 21 - 23 April 2016, vol.1726

- XXXIV. **ÜSTEL DAĞILIM YÖNTEMİ KULLANILARAK AĞRI VE ÇEVRESİNİN DEPREM TEHLİKESİNİN BELİRLENMESİ**

TÜRKER T., BAYRAK Y.

3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı (3. TDMSK), İZMİR, TÜRKİYE, İzmir, Turkey, 14 - 16 October 2015, pp.1-6

- XXXV. **DOĞU ANADOLU BÖLGESİ VE CİVARININ POISSON YÖNTEMİ İLE DEPREM TEHLİKE TAHMİNİ**

TÜRKER T., BAYRAK Y.

3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı (3. TDMSK), İZMİR, TÜRKİYE, İzmir, Turkey, 14 - 16 October 2015, pp.1-8

- XXXVI. **BAYES YÖNTEMİ İLE DOĞU ANADOLU VE CİVARININ DEPREM TEHLİKE ANALİZİ**

TÜRKER T., BAYRAK Y.

KTİF TEKTONİK ARAŞTIRMA GRUBU ÇALIŞTAYI (ATAG 19), Sakarya, Turkey, 7 - 09 October 2015, pp.25

- XXXVII. **THE EARTHQUAKE HAZARD ANALYSIS USING BAYESIAN METHOD OF THE NORTH ANATOLIA FAULT**

TÜRKER T., BAYRAK Y.

5 th International Earthquake Symposium, Kocaeli, Turkey, 10 - 12 June 2015, pp.366-367

- XXXVIII. **The earthquake hazard analysis using Bayesian Method of North Anatolian Fault**

TÜRKER T., BAYRAK Y.

5. International Earthquake symposium Kocaeli 2015, Turkey, 10 - 12 June 2015

- XXXIX. **BAYES YÖNTEMİ KULLANILARAK DOĞU ANADOLU FAYI NIN FARKLI SİSMİK KAYNAK BÖLGELERİ İÇİN DEPREM TEHLİKE PARAMETRELERİNİN BELİRLENMESİ**

TÜRKER T., BAYRAK Y.

Genç Yerbilimciler Kongresi, İZMİR, TÜRKİYE, İzmir, Turkey, 5 - 07 June 2015, pp.152-153

- XL. **Bayes Yöntemi Kullanılarak Doğu Anadolu Fayı'nın Farklı Sismik Kaynak Bölgeleri İçin Deprem Tehlike Parametrelerinin Belirlenmesi**
TÜRKER T., BAYRAK Y.
Genç Yer Bilimciler Kongresi, 5-7 Haziran 2015, İzmir, Turkey, 5 - 07 June 2015
- XLI. **DETERMINATION OF EARTHQUAKE HAZARDS PARAMETERS FOR DIFFERENT SEISMIC SOURCE ZONES OF WESTERN ANATOLIA USING BAYESIAN METHOD**
TÜRKER T., BAYRAK Y.
International Burdur Earthquake & Environment Symposium (IBEES2015), Burdur, Turkey, 7 - 09 May 2015, pp.20-30
- XLII. **Determination of Earthquake Hazard parameters for different seismic source zones of western Anatolia Using Bayesian method**
TÜRKER T., BAYRAK Y.
International Burdur Earthquake & Environment Symposium (IBEES2015), Burdur, Turkey, 7 - 09 May 2015
- XLIII. **EN BÜYÜK OLASILIK YÖNTEMİ KULLANILARAK BATI ANADOLU NUN FARKLI BÖLGELERİNDE ALETSEL DÖNEM İÇİN DEPREM TEHLİKE ANALİZİ**
BAYRAK E., YILMAZ Ş., TÜRKER T., SOFTA M., BAYRAK Y.
2. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Hatay, Turkey, 10 - 13 May 2013, vol.1, pp.1-7

Metrics

Publication: 51
Citation (WoS): 44
Citation (Scopus): 55
H-Index (WoS): 4
H-Index (Scopus): 4

Congress and Symposium Activities

IV: International Multidisciplinary Congress of Eurasia (IMCOFE), Moderator, Rome, Italy, 2017
9th Congress of the Balkan Geophysical Society (BGS 2017), Session Moderator, Antalya, Turkey, 2017

Awards

TÜRKER T., JEOPİZİK MÜHENDİSLİĞİ BÖLÜM BİRİNCİLİĞİ, KARADENİZ TEKNİK ÜNİVERSİTESİ, June 2010