

Prof. MUHAMMET VEFA AKPINAR

Personal Information

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Biography

Dr. Akpınar has worked as a professional engineering in Houston, Texas. He was involved in QC/QA issues on geotechnical and pavement fields. Dr. Akpınar worked as a Post Doctoral Research Associate at Kansas State University. He is a licensed Professional Engineer in Ohio and Texas states.

Dr. Akpınar's teaching and research interests focus primarily on pavement mechanics and advanced modeling, pavement interlayer systems, and nondestructive evaluation. He has been working on transportation infrastructure instrumentation, full-scale accelerated testing, modeling of concrete and asphalt pavement response to tire loading, pavement fracture and modeling of pavement interface systems, accelerated pavement testing and improvement of weak base layers with geocell cells.

Dr. Akpınar has taught graduate and undergraduate courses in Transportation and Geotechnical Engineering fields. He has taught soil mechanics, transportation I-II, computer aided pavement road design, and statistics undergraduate courses and pavement design, stress-strain analyses in pavement roads, pavement drainage, soil mechanics for pavement roads, pavement friction graduate courses.

He has been principal investigator on several major pavement instrumentation projects, including projects completed for the Turkish National Science Foundation, TÜBİTAK, 106M423 where he developed a new device which can be used as pullout and as an full scale direct shear box especially for geogrid performs under pavement evaluation.

He has a solid working relationship with the Turkish Highway General Office, TCK and has completed several major forensic investigation to identify causes of pavement failure. By combining advanced non-destructive testing results he has successfully identified problems with flexible pavements in Trabzon. He is currently assisting TCK with the implementation of the APT procedure into their project level pavement design system.

MR. Akpınar's more recent research has been involved with the design and development of the full-scale Accelerated Pavement Testing Facility at KTÜ. Currently he is principal investigator on the Accelerated Pavement Testing Program which is the only program available in Turkey and one of the most comprehensive program in Europe. As part of this effort he is building pavement deterioration curves based on information stored in the Flexible Pavement Data Base. One important aspect of this system is the development and implementation of a mechanistic pavement design procedure for Turkish highways. Mr. Akpınar has broad experience in implementing improved systems, developing the necessary training materials and conducting training schools.

Another major area of research is in the development and implementation of Geocell technology. He has established a pressure gage, strain gage, and plate loading system that evaluates the bearing capacity of pavement layers reinforced with geocells. By performing bearing capacity tests combining advanced non-destructive testing results he has successfully identified problems with flexible pavements in Trabzon. He has been actively performing research to determine how aggregate gradation, nominal max. size of aggregate, temperature, frost action, and moisture influence

the load carrying capabilities of Geocell geosynthetic materials with varying thickness. He try to incorporate the research findings into the design, construction, behavior, and performance of pavement systems.

Education Information

Doctorate, Kansas State University, Civil Engineering, United States Of America 1999 - 2001

Postgraduate, University of Wisconsin-Madison, Graduate School, Environmental And Civil Engineering, United States Of America 1996 - 1998

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Occupational Health and Safety, UZEM İSG, Karadeniz Teknik Üniversitesi, 2015

Occupational Health and Safety, UZEM, Karadeniz Teknik Üniversitesi, 2014

Other, Kamuşatırma, İnşaat Mühendisler Odası-Trabzon, 2007

Quality Management, Superpave, Kansas Department of Transportation-KSU Amerika, 2000

Dissertations

Doctorate, Defining Roller Compactor Position and Slope OF tapered Surface in a Longitudinal Joint Construction Using 2-D Finite Element Model , Kansas State University, Civil Engineering, Transportation, 2001

Postgraduate, interface shear strength between geosynthetics at different temperatures., University of Wisconsin-Madison, Graduate School, Environmental And Civil Engineering, 1998

Research Areas

Civil Engineering, Transportation Engineering, Airport Construction, Highways, Geotechnical, Soil Mechanics, Building materials, Concrete Technology, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, 2012 - Continues

Medical Doctor, Kansas State University, Civil Engineering, Civil Engineering, 2004 - 2005

Research Assistant, Kansas State University, Mühendislik Fakültesi, İnşaat Ve Çevre Mühendisliği, 1999 - 1999

Other, University of Wisconsin-Madison, Graduate School, Environmental And Civil Engineering, 1996 - 1998

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, 1992 - 1995

Academic and Administrative Experience

Mustafa Kemal Üniversitesi, Geotechnic, İnşaat, 2001 - 2005

Courses

YOL TABAKALARINDA GERİLME ANALİZLERİ, Doctorate, 2017 - 2018
ULAŞIM I-B, Undergraduate, 2016 - 2017, 2017 - 2018
Hızlandırılmış Yol Testi, Doctorate, 2017 - 2018
INSL7521 Geosentetiklerle Yolların Güçlendirilme.İng., Postgraduate, 2015 - 2016, 2017 - 2018
QUALİTY CONTROL IN HOGHWAY CONSTRUCTION, Postgraduate, 2017 - 2018
iş makinaları , Undergraduate, 2016 - 2017
DEMİRYOLU, Undergraduate, 2017 - 2018
SEL 475 -A CONCRETE ROAD DESIGN AND APPLİCATION-A, Undergraduate, 2017 - 2018
SEL 475 - Concrete Road Desing And Aplication [Teknik(Bölüm)Seçmeli] - B, Undergraduate, 2017 - 2018
STABİLİTY OF ROAD AMBANKEMENTS, Postgraduate, 2016 - 2017
Silindirle Sıkıştırırla.Beton Yollar, Doctorate, 2016 - 2017

Advising Theses

AKPINAR M. V. , kent içi ulaşım mastır planı, Postgraduate, y.kırmoğlu(Student), Continues
AKPINAR M. V. , SİLİNDİRLE SIKIŞTILABİLEN BETON YOLLARDA FİBER KATKILARI, Doctorate, E.Avcı(Student), Continues
AKPINAR M. V. , polymer bazlı ifile güçlendirilmiş beton yolların performansı, Postgraduate, Ö.Faruk(Student), Continues
AKPINAR M. V. , RCC beton yollarda boylam derz çatlakların minimize edilmesi, Doctorate, M.Nas(Student), Continues
AKPINAR M. V. , beton yollarda sılı genleşmeye bağlı gerilmelerin tespiti, Postgraduate, M.Tan(Student), Continues
AKPINAR M. V. , Beton Yollarda Albedo etkisinin azaltılması ve derzsiz yol inşaatı, Doctorate, S.sevin(Student), Continues
AKPINAR M. V. , Geri düşünüm asfalt malzemelerin temel malzemesi olarak kullanımının arşatırılması, Doctorate, A.Güneş(Student), Continues
AKPINAR M. V. , Beton yollarda derz aralağın belirlenmesi, Postgraduate, İ.Doğan(Student), Continues
AKPINAR M. V. , BETON YOLLARDA ÇATLAKLARIN MİNİMİZE EDİLMESİ, Postgraduate, T.KADIOĞLU(Student), Continues
AKPINAR M. V. , dersiz beton yol kaplama, Doctorate, M.seferoğlu(Student), Continues
AKPINAR M. V. , beton bariyerler ve trafik, Doctorate, s.özcanan(Student), Continues
AKPINAR M. V. , Beton yol üstü asfalt kaplama, Doctorate, M.çelik(Student), Continues
AKPINAR M. V. , Geri dönüşüm agregasının beton yol kaplamasında kullanılabilirliği, Postgraduate, E.Süme(Student), 2016
AKPINAR M. V. , Bozulmuş asfalt kaplamaların geri dönüşüm maliyet analizi ve optimum geri kazanım mesafesinin araştırılması, Postgraduate, A.Selinoğlu(Student), 2015
AKPINAR M. V. , Karadeniz Bölgesi köy yolları için rijit ve esnek kaplamanın mekanistik ve maliyet açısından karşılaştırılması, Postgraduate, m.çelik(Student), 2014
AKPINAR M. V. , Havaalanı rijit kaplamalarında farklı beton sınıfları için sıcaklık değişiminin sonlu elemanlar ve deneysel çalışmalarla belirlenmesi, Postgraduate, m.tevfik(Student), 2014
AKPINAR M. V. , beton yol plakaların matematiksel modeli, Postgraduate, ü.yaşar(Student), 2013
AKPINAR M. V. , Beton yol kaplamaların sayısal tasarımında bilgi sistemleri ve yapay zeka yaklaşımı, Doctorate, E.Burak(Student), 2012
AKPINAR M. V. , Karayolu tabakalarında plaka yükleme deneyinin uygulanabilirliğinin araştırılması, Postgraduate, A.GÜNEŞ(Student), 2011
AKPINAR M. V. , Karayolu Alttemel Tabakası Taban Zemini Arasında Farklı Göz Açıklıklarındaki Geogridlerin Performanslarının Araştırılması, Doctorate, T.Sert(Student), 2010

Jury Memberships

Post Graduate, 100.YIL ÜNİVERSİTESİ MASTIR TEZ SAVUNMASI, 100.YIL ÜNİVERSİTESİ İNŞAAT MÜHENDİSLİĞİ BÖLÜMÜ, December, 2017
Doctorate, doktora savunması , karadeniz teknik üniversitesi, November, 2017
Post Graduate, mastir tez, karadeniz teknik üniversitesi, May, 2017
Doctorate, doktora tez, karadeniz teknik üniversitesi, March, 2016
Post Graduate, juri, 19 Mayıs Üniversitesi, December, 2015
Appointment Academic Staff, juri, artvin üniversitesi, March, 2015
Post Graduate, juri, Recep Tayyip Erdoğan Üniversitesi, March, 2015
Post Graduate, Mastir tez savunma:Trabzon Bölünmüş Sahil Yolu Üzerinde Coğrafi Bilgi Sistemleri İle Trafik Kazalarının Analiz, karadeniz teknik üniversitesi, February, 2015
Post Graduate, tez, KTÜ, July, 2014
Academic Staff Examination, juri, artvin üniversitesi, February, 2014
Academic Staff Examination, juri, artvin üniversitesi, February, 2014
Post Graduate, juri, KTÜ, March, 2013
Post Graduate, yüksek lisans meaturji, karadeniz teknik üniversitesi, January, 2013
Post Graduate, mastir tez savunma metalurji, karadeniz teknik üniversitesi, February, 2012
Doctorate, doktora tez savunma, karadeniz teknik üniversitesi, January, 2010

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

- I. **Investigating the Mechanical Behavior of Reclaimed Asphalt Pavement (RAP) Bases in Large Scale Test Box**
SEFEROĞLU A. G. , Seferoglu M. T. , AKPINAR M. V.
TEKNIK DERGI, vol.30, no.6, pp.9581-9596, 2019 (Journal Indexed in SCI)
- II. **Experimental study on cement-treated and untreated RAP blended bases: Cyclic plate loading test**
Seferoğlu A. G. , SEFEROĞLU M. T. , AKPINAR M. V.
Construction and Building Materials, vol.182, pp.580-587, 2018 (Journal Indexed in SCI)
- III. **Investigation of the Effect of Recycled Asphalt Pavement Material on Permeability and Bearing Capacity in the Base Layer**
Seferoglu A. G. , SEFEROĞLU M. T. , AKPINAR M. V.
ADVANCES IN CIVIL ENGINEERING, vol.2018, 2018 (Journal Indexed in SCI)
- IV. **Pavement subgrade stabilization with lime and cellular confinement system**
AKPINAR M. V. , Pancar E. B. , Şengül E., Aslan H.
Baltic Journal of Road and Bridge Engineering, vol.13, no.2, pp.87-93, 2018 (Journal Indexed in SCI)
- V. **Effects of fine aggregate abrasion resistance and its fineness module on wear resistance of Portland cement concrete pavements**
Karpuz O., AKPINAR M. V. , Aydın M. M.
Revista de la Construcción, vol.16, no.1, pp.126-132, 2017 (Journal Indexed in SCI)
- VI. **Temperature Reduction of Concrete Pavement Using Glass Bead Materials**
Pancar E. B. , AKPINAR M. V.
INTERNATIONAL JOURNAL OF CONCRETE STRUCTURES AND MATERIALS, vol.10, no.1, pp.39-46, 2016 (Journal Indexed in SCI)
- VII. **Comparison of Effects of Using Geosynthetics and Lime Stabilization to Increase Bearing Capacity of Unpaved Road Subgrade**
Pancar E. B. , AKPINAR M. V.
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, vol.2016, 2016 (Journal Indexed in SCI)
- VIII. **Determining the Critical Tire and Axle Configuration for Flexible Pavements Based on Mechanistic Analysis**

- Ozcanan S., AKPINAR M. V.
TEKNIK DERGI, vol.25, no.1, pp.6625-6654, 2014 (Journal Indexed in SCI)
- IX. **Evaluation of Internal Resistance in Asphalt Concretes**
ZANDI Y., AKPINAR M. V.
INTERNATIONAL JOURNAL OF CONCRETE STRUCTURES AND MATERIALS, vol.6, no.4, pp.247-250, 2012 (Journal Indexed in SCI)
- X. **INVESTIGATION OF GEOGRID APERTURE SIZE EFFECTS ON SUBBASE-SUBGRADE STABILIZATION OF ASPHALT PAVEMENTS**
SERT T., AKPINAR M. V.
BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING, vol.7, no.2, pp.160-168, 2012 (Journal Indexed in SCI)
- XI. **Chemical composition of building materials used in Turkey**
ÇEVİK U., Damla N., Van Grieken R., AKPINAR M. V.
CONSTRUCTION AND BUILDING MATERIALS, vol.25, no.4, pp.1546-1552, 2011 (Journal Indexed in SCI)
- XII. **Investigation of Geogrid Performance on Highway Subbase By Using The Pullout Test Device**
SERT T., AKPINAR M. V.
TEKNIK DERGI, vol.22, no.1, pp.5285-5304, 2011 (Journal Indexed in SCI)
- XIII. **Effects of truck load position on longitudinal joint deterioration**
Akpınar M. V.
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.15, no.1, pp.36-40, 2008 (Journal Indexed in SCI)
- XIV. **Effect of cement on emulsified asphalt mixtures**
Oruc S., Celik F., Akpınar M. V.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.16, no.5, pp.578-583, 2007 (Journal Indexed in SCI)
- XV. **Textured Surface and Strain Rate Effects on Geomembrane and Geotextile Interface Shear Strength at Different Temperatures**
AKPINAR M. V. , Benson C.
GEOTEXTILES AND GEOMEMBRANES, vol.23, pp.443-453, 2005 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Kazınmış Asfalt Kaplama (RAP) Malzemelerinin Filler Oranının CBR Performansına Etkisi ve Maliyet Analizi**
seferoğlu a. g. , SEFEROĞLU M. T. , AKPINAR M. V. , ÇELİK M.
Pamukkale Univ Muh Bilim Derg., no.3333, pp.9581-9596, 2020 (Journal Indexed in ESCI)
- II. **An investigation on vertical displacement formations with respect to the types of joints in concrete road applications and cost analysis: An example from trabzon-rize Beton yol uygulamalarında derz türlerine göre düşey deplasman oluşumlarının incelenmesi ve maliyet analizi: Trabzon-rize örneği**
Çelik M., Seferoğlu M. T. , AKPINAR M. V. , Güneş Seferoğlu A.
El-Cezeri Journal of Science and Engineering, vol.7, no.2, pp.474-486, 2020 (Refereed Journals of Other Institutions)
- III. **Trabzon Uzungöl Sit Alanı için Kaya Islahı Projelendirmesinde Karşılaşılan Zorluklar ve Çözüm Önerileri**
ÇELİK M., SEFEROĞLU M. T. , SEFEROĞLU A. G. , AKPINAR M. V.
Journal of Investigations on Engineering and Technology, vol.1, no.1, pp.1-6, 2018 (Other Refereed National Journals)
- IV. **Hızlandırılmış Yol Testleri**
AKPINAR M. V.
Türkiye Mühendislik Haberleri, TMMOB, İnşaat Mühendisleri Odası, vol.2, no.1, pp.9-19, 2017 (Other Refereed National Journals)

- V. **Türkiye'de Geri Dönüşüm Asfalt Kaplamaların (RAP) Bağlayıcısız Temel Tabakalarında Kullanılabilirliği ve Şartname Gereksinimleri**
seferoğlu a. g. , SEFEROĞLU M. T. , AKPINAR M. V.
Yapı Dünyası, pp.21-26, 2017 (Other Refereed National Journals)
- VI. **Heavy lead (Pb) mobility in compacted clay soils under landfill liners**
Akbulut S., AKPINAR M. V. , CEVIK U.
International Journal of Application or Innovation in Engineering & Management (IJAEM), vol.6, no.5, pp.12-22, 2017 (Journal Indexed in ESCI)
- VII. **EFFECT OF GLASS BEAD AND ZEOLITE IN CONCRETE UNDER HIGH TEMPERATURE**
AKPINAR M. V.
International Journal of Research –Granthaalayah, vol.4, no.12, pp.12-19, 2016 (International Refereed University Journal)
- VIII. **Field and Loading Unit Analysis of Vertical Pressure Distribution on Highway Sublayers**
Kütük T., Gürbüz A., AKPINAR M. V.
American Academic & Scholarly Research Journal, vol.8, no.6, pp.2-12, 2016 (Journal Indexed in ESCI)
- IX. **EFFECT OF GROOVE WIDTH AND SHAPE ON CONCRETE PAVEMENT SKID RESISTANCE**
pancar e. b. , karaca z., AKPINAR M. V.
International Journal of Innovation Sciences and Research, vol.4, no.3, pp.81-86, 2015 (Refereed Journals of Other Institutions)
- X. **EFFECT OF GROOVE WIDTH AND SHAPE ON CONCRETE PAVEMENT SKID RESISTANCE Vol 4 No 3 pp 081 086 March 2015**
PANCAR E. B. , KARACA Z., AKPINAR M. V.
International Journal of Innovation Sciences and Research, vol.4, no.3, pp.81-86, 2015 (Refereed Journals of Other Institutions)
- XI. **Karayolu ve Havayolu Kaplamalarında Kullanılan Kar ve Buzla Mücadele Yöntemlerinin Mali Analizi**
Seferoglu G., Seferoglu M. T. , AKPINAR M. V.
GAZİ ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ PART: C TASARIM VE TEKNOLOJİ, vol.1, no.3, pp.407-416, 2015 (Other Refereed National Journals)
- XII. **KARAYOLLARINDA REAKSİYON MODÜLÜNÜN BELİRLENMESİNDE UYGUN PLAKA YÜK VE BOYUTLARININ SONLU ELEMANLAR YÖNTEMİYLE TESPİTİ**
SEFEROĞLU A. G. , SEFEROĞLU M. T. , AKPINAR M. V.
Yapı Dünyası Dergisi, vol.3, no.1, pp.407-416, 2014 (Other Refereed National Journals)
- XIII. **Assessing Permenant Deformation of Asphalt Mixtures Using Digital Imaging**
Zandi Y., AKPINAR M. V. , Mehdizadeh M.
Journal of Basic and Applied scientific research, vol.2, no.5, pp.5292-4304, 2012 (Refereed Journals of Other Institutions)
- XIV. **research on feasibility of plate loading testing on highway pavement layers**
seferoğlu a. g. , AKPINAR M. V.
e-journal of new world sicence academy, vol.6, no.4, pp.1190-1199, 2011 (Refereed Journals of Other Institutions)
- XV. **Hızlandırılmış Yol Testi**
AKPINAR M. V.
Hazır Beton, THBB, no.97, pp.63-65, 2010 (Other Refereed National Journals)
- XVI. **İnce Agregada Türünün Kaplama Betonunun Aşınma Direncine Etkisi**
KARPUZ O., AKPINAR M. V.
Electronic Journal of Construction Technologie, vol.5, no.2, pp.1-8, 2009 (National Refreed University Journal)
- XVII. **Identification of interfacial stress pattern on dentin post interface**
AKPINAR M. V. , Akpınar Y.
Journal of Dental Clinics and Research, vol.5, no.2, pp.103-110, 2009 (International Refereed University Journal)
- XVIII. **Beton yollarda karışım incelik modülünün sürtünme kaybına etkisi**
Karpuz O., AKPINAR M. V. , Sert T.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.23, pp.137-146, 2008 (National

Refreed University Journal)

- XIX. **Guidlines in Production of Two Step Anaerobic Digestion for Turkish Army**
AKPINAR M. V.
SCIENCE JOURNAL OF THE TURKISH MILITARY ACADEMY, vol.15, pp.20-30, 2005 (Other Refereed National Journals)
- XX. **The Effect of Fine Aggregate Type on Wear Resistance of Pavement Concrete**
Karpuz O., AKPINAR M. V.
Yapı Teknolojileri Elektronik Dergisi, vol.5, pp.1-8, 2004 (Other Refereed National Journals)
- XXI. **Analysis of Intercity Transportation Mode Choice From Banjarmasin City Disaaggregate Logit Model**
Radam I. F. , AKPINAR M. V. , Örnak M.
Çukurova Univ. Journal of Faculty of Engineering, vol.19, pp.112-132, 2004 (National Refreed University Journal)

Books & Book Chapters

- I. **Comparison of asphalt and concrete pavement solar reflectance**
AKPINAR M. V. , sevinç s.
in: Green Energy and Technology, Sandro NizeticAgis Papadopoulos, Editor, Springer, London/Berlin , Londra, pp.42-49, 2018
- II. **Energy Analysis and Energy Storage Technologies. Comparison of concrete and asphalt pavement roads**
AKPINAR M. V. , SEVİN S.
in: Green Energy and Technology, Sandro Nižetić Agis Papadopoulos, Editor, SPRINGER, pp.51-59, 2018
- III. **karayolu tasarımı**
AKPINAR M. V.
Birsen Yayınevi, İstanbul, 2017
- IV. **örneklerle karayolu tasarımı**
AKPINAR M. V.
Birsen Yayınevi, 2017
- V. **GUIDE TO CONCRETE OVERLAYS**
AKPINAR M. V.
Türkiye Çimento Müstahsiller Birliği, Ankara, 2016
- VI. **Roller compacted concrete pavement guide**
AKPINAR M. V.
Tçmb, Ankara, 2015
- VII. **Chapter 57 Intelligent Computing and Applications Volume 343 of the series Advances in Intelligent Systems and Computing**
Burak e., AKPINAR M. V.
in: Advances in Intelligent Systems and Computing, Durbadal M., Rajib K., Swagatam D., Bijaya K.P., Editor, Springer, London/Berlin , Almanya, pp.2012-2016, 2015
- VIII. **CHAPTER 57 Information Systems and Artificial Intelligence Technology Applied in Concrete Road Design**
PANCAR E. B. , AKPINAR M. V.
in: Intelligent Computing and Applications, Durbadal Mandal • Rajib Kar • Swagatam Das • Bijaya Ketan Panigrahi, Editor, springer, pp.559-568, 2015
- IX. **Evaluation of Geogrids Displacements on Subbase Reinforcement Using Special Designed Pullout**
AKPINAR M. V. , Kütük T.
in: Bearing Capacity of Roads, Railways and Airfields, Erol T., El İ.Q., Editor, Taylor , İllinois Urbana, Chicago, pp.100-120, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **TÜNELLERDE LİFLİ BETONLARIN ENERJİ YUTMA GÖSTERGESİ TOKLUK İNDEKSİ TESTİNİN İRDELENMESİ**
AKPINAR M. V.
2. Ulusal Tünelcilik ve Yer Altı Yapıları Kongresi, Turkey, 4 - 05 December 2019
- II. **Doğu Karadeniz Bölgesindeki Beton Yollarının Düşey Deplasmanlarının Hızlandırılmış Yol Testinde İncelenmesi**
SEFEROĞLU M. T. , AKPINAR M. V.
1.beton yollar kongresi, Ankara, Turkey, 13 - 15 November 2019
- III. **Doğu Karadeniz Bölgesindeki Beton Yolların Düşey Deplasmanlarının Hızlandırılmış Yol Testinde İncelenmesi**
ÇELİK M., SEFEROĞLU M. T. , AKPINAR M. V.
1. Beton Yollar Kongresi ve Sergisi, Ankara, Turkey, 12 - 14 November 2019, vol.1, pp.229-240
- IV. **Hızlandırılmış Yol Testleriyle Uzun Dönemli Beton Yol Kaplama Performanslarının (LTPP) araştırılması: KTÜ Örneği**
ÇELİK M., SEFEROĞLU M. T. , AKPINAR M. V.
1. Beton Yollar Kongresi ve Sergisi, Ankara, Turkey, 12 - 14 November 2019, vol.2, pp.349-362
- V. **Improving the Strength And Drainage Characteristics of Recycled Asphalt Pavements**
SEFEROĞLU A. G. , SEFEROĞLU M. T. , AKPINAR M. V.
INTERNATIONAL CIVIL ENGINEERING AND ARCHITECTURE CONFERENCE 2019, Trabzon, Turkey, 17 - 20 April 2019
- VI. **IMPROVING THE STRENGTH AND DRAINAGE CHARACTERISTICS OF RECYCLED ASPHALT PAVEMENTS**
SEFEROĞLU M. T. , seferoğlu a. g. , ÇELİK M., AKPINAR M. V.
International Civil Engineering and Architecture Conference 2019, Trabzon, Turkey, 17 - 20 April 2019, pp.2704-2709
- VII. **KARADENİZ TECHNICAL UNIVERSITY ACCELERATED PAVEMENT TEST (KTU-APT) FACILITY STUDIES, PROBLEMS AND SOLUTION PROPOSALS**
SEFEROĞLU M. T. , ÇELİK M., seferoğlu a. g. , AKPINAR M. V.
International Civil Engineering and Architecture Conference 2019, Trabzon, Turkey, 17 - 20 April 2019, pp.2710-2718
- VIII. **Investigation of Concrete Roads in Eastern Black Sea Region in Accelerated Pavement Test**
SEFEROĞLU M. T. , ÇELİK M., SEFEROĞLU A. G. , AKPINAR M. V.
3. International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 - 27 April 2018
- IX. **Reduction of Waste and Ecological Damage on Roads with Reclaimed Asphalt Pavements**
SEFEROĞLU A. G. , SEFEROĞLU M. T. , AKPINAR M. V.
3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018
- X. **The Utilization of RAP as a Subbase/Base Course Material and The Effects on Material Cost**
SEFEROĞLU A. G. , SEFEROĞLU M. T. , AKPINAR M. V. , ÇELİK M.
3. International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 - 27 April 2018
- XI. **Properties Of Recycled Concrete Aggregate (RCA) Obtained From Concrete Pavement**
KANDİL U., SEFEROĞLU M. T. , ÇELİK M., SEFEROĞLU A. G. , AKPINAR M. V. , ERDOĞDU Ş.
3. International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 - 27 April 2018, pp.300
- XII. **Temperature Variations Within the Concrete Pavement Thickness After Heating for De-Icing**
AKPINAR M. V. , SEFEROĞLU M. T.
trb annual meeting, 1 - 02 January 2018
- XIII. **Urban Heat Island Effects of Concrete Road and Asphalt Pavement Roads**
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- XIV. **Reducing Urban Heat Islands by Developing Cool Pavements**
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- 9th International Exergy, Energy and Environment Symposium (IEEES), Split, Croatia, 14 - 17 May 2017, pp.43-50
- XV. **Comparison of Asphalt and Concrete Pavement Solar Reflectance**
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- XVI. **DEMİR YOLLARINDAKİ TRAVERSİLER ARASI OPTİMUM MESAFENİN ARAŞTIRILMASI**
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- XVII. **Demir Yollarındaki Traversler Arası Optimum Mesafenin Araştırılması**
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- XVIII. **Financial Analysis of the Damage of the Flood Disaster to Transportation Structures: Trabzon Beşikdüzü Case of September 2016**
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- XIX. **First Large Scale Accelerated Pavement Test Laboratory in Turkey**
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- XX. **Urban Heat Island Effects Of Concrete Road And Asphalt Pavement Roads (no figures no table)**
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- XXI. **Investigating albedo's effect to develop cool pavement in urban areas**
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- XXIII. **The investigate of concrete pavements for energy saving in urban area**
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- XXVI. **Thermal Stress Analysis of Concrete Pavement under Different Albedo Values**
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- XXVII. **Comparison of the Cost, Construction and Benefit of the Innovative Steel Barriers and Embankment Walls in Trabzon**
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- XXIX. **Daily Temperature Change in Concrete Pavements, Albedo effect and Stress Analysis by 3D Finite Element Method**
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- XXX. **Field and loading unit analysis of vertical pressure distribution on highway sublayers**
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- XXXI. **Usability of waste recycled aggregate in rigid pavement roads using KTÜ-Accelerated pavement test**
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- XXXIII. **A Numerical Study on Rock Barriers in Uzungöl Region**
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- XXXIV. **Rehabilitation Methods, Challenges, Cost Benefit Analysis of Disaster Area Exposed due to Rockfalls in Trabzon Province**
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- XXXV. **In Order to Establish A Sustainable Transportation In The East Black Sea Region Investigating the Problems Caused by Floods**
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- XXXVII. **BETON YOLLARDA GÜNLÜK MEYDANA GELEN SICAKLIK DEĞİŞİMİNİN OLUŞTURDUĞU GERİLMELERİN 3-D SONLU ELEMANLAR YARDIMIYLA MEKANİSTİK AMPİRİK ANALİZİ**
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- XLI. Beton Yolların Mekanistik Tasarımlarının Ve Performanslarının Sonlu Elemanlar Yöntemi Ve Hızlandırılmış Yol Testleriyle Belirlenmesi**
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AKPINAR M. V.

The International Conference on Civil Engineering, Browijaya, Indonesia, 1 - 03 September 2003, pp.11-21

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- I. **Ulaşım I**
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- III. **Cross Tensioned Concrete Pavement, Report No. KS-02-5, Final Report**
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Kansas, 1998

Supported Projects

- AKPINAR M. V. , EU Supported Other Project, Tekke Köy Lojistik üssü Samsun, 2015 - 2018
- AKPINAR M. V. , Project Supported by Other Private Institutions, Hızlandırılmış Yol Test Otomasyon, 2017 - 2017
- AKPINAR M. V. , Project Supported by Other Official Institutions, Nükleer yoğunluk test cihazlarına karşın alternatif LWD deneyin geliştirilmesi, 2014 - 2017
- ALVER Ü., DUMAN M. S. , ÇUVALCI H., ÇANAKÇI A., ASLAN M., AKPINAR M. V. , OKUMUŞ H. İ. , YILDIRIM İ., DENİZ İ., BELDÜZ A. O. , et al., Project Supported by Higher Education Institutions, ZIRHLI YELEKLER İÇİN FONKSİYONEL DERECELENDİRİLMİŞ HİBRİT NANOKOMPOZİT MALZEMELERİN ÜRETİMİ VE ÖZELLİKLERİNİN İNCELENMESİ, 2015 - 2016
- AKPINAR M. V. , Project Supported by Other Official Institutions, Kazılmış Asfalt Kaplamaların Alttemel ve Temel Malzemesi Olarak Kullanım Şartlarının Araştırılması, 2012 - 2016
- AKPINAR M. V. , Project Supported by Other Official Institutions, Betona Yol Uygulamaları, 2014 - 2015
- AKPINAR M. V. , Project Supported by Other Official Institutions, Yüksek m modifiyeli Asfalt-Hima ile dayanıklı ve ekonomik yollar, 2013 - 2013
- AKPINAR M. V. , TUBITAK Project, Yol Kaplama Malzemelerinde düşük sıcaklık çatlak dayanımlarının belirlenmesi, 2007 -

2010

AKPINAR M. V. , Project Supported by Other Official Institutions, Geocellerin yol dolgu güçlendirilmelerinde kullanımları, 2008 - 2009

EKİNCİ M., AKPINAR M. V. , TUBITAK Project, Karayolu Alttemel dolguların güçlendirilmesinde optimum geogrid göz açıklığının ve agrega çapının araştırılması, 2007 - 2009

AKPINAR M. V. , TUBITAK Project, Hızlandırılmış Yol Testi, 2005 - 2006

AKPINAR M. V. , Other Supported Projects, Houston Tollway road, 2000 - 1999

Activities in Scientific Journals

Engineering Science and Technology, an International Journal , Committee Member, 2018 - Continues

international journal of advanced research, Committee Member, 2017 - Continues

American Journal of Geophysics, Geochemistry and Geosystems, Committee Member, 2017 - Continues

Niğde üniversitesi mühendislik bilimler dergisi , Committee Member, 2016 - Continues

Çimento ve Beton Dünyası , Advisory Committee Member, 2016 - Continues

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Editor, 2011 - Continues

Memberships / Tasks in Scientific Organizations

karadeniz teknik üniversitesi, Member, 2016 - Continues

inşaat mühendisler odası, Ankara, Board Member, 2016 - Continues

Karayolu Trafik Güvenliği, Member, 2016 - Continues

inşaat mühendisler odası, Trabzon, Board Member, 2016 - Continues

Türkiye Çimento Müstahsiller Birliği, Member, 2013 - Continues

Yollar Türk Mili Komitesi, Member, 2009 - Continues

professional engineer, Member, 2001 - Continues

Ohio professional enigneering, Member, 2000 - Continues

Geosentetikler derneği, Member, 2011 - 2013

Ulaştırma bakanlığı ulaştırma şurası, Member, 2009 - 2010

Ulaştırma Bakanlığı, Member, 2009 - 2009

Scientific Refereeing

International Journal of Transportation Engineering and Technology, Other Indexed Journal, July 2017

İMO teknik dergi (sci expanded), National Scientific Refreed Journal, May 2017

G7 yedinci ulusal geosentetikler konfreansı, Other Journals, May 2017

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, April 2017

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AFRİCAN JOURNAL OF ENGINEERING RESEARCH, SCI Journal, April 2016

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Yrd. Doç. Atama, Other Journals, September 2015
MİLLÎ EĞİTİM BAKANLIĞI YURTDIŞI LİSANSÜSTÜ , Other Journals, August 2015
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Advances in materials research, SCI Journal, June 2014
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, May 2014
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, National Scientific Refreed Journal, March 2014
TÜBİTAK Proje , Other Journals, December 2012
10 th international congress on advances in civil engineering, Other journals, November 2012
Fırat üniversitesi fen bilimler dergisi, National Scientific Refreed Journal, August 2011
International journal of pavement research and technology , Other Indexed Journal, January 2011
TUBITAK Project, November 2010
5.ulusal asfalt sempozyumu, Other Journals, November 2009

Scientific Consultations

AKÇANSA, Other, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, Turkey, 2015 - Continues
Türkiye Çimento müstahsiller birliği, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, Turkey, 2013 - Continues
Ulaştırma Bakanlığı, Scientific Consultancy, Karadeniz Teknik Üniversitesi, Turkey, 2009 - 2009

Edit Congress and Symposium Activities

2.ulusal tüneller ve altyapılar kongresi, Invited Speaker, Ankara, Turkey, 2019
Ulaştırma lojistik, Attendee, Sakarya, Turkey, 2018
Beton yol, Invited Speaker, Ankara, Turkey, 2018
SSB Ağrı uygulaması, Invited Speaker, Ağrı, Turkey, 2018
Daily Temperature Change in Concrete Pavements, Albedo effect and Stress Analysis by 3D Finite Element Method., Attendee, Bayburt, Turkey, 2017
Comparison of the Cost, Construction and Benefit of the Innovative Steel Barriers and Embankment Walls in Trabzon, Attendee, Bayburt, Turkey, 2017
Thermal Stress Analysis of Concrete Pavement under Different Albedo Values., Attendee, Bayburt, Turkey, 2017
IEEEES-9, 9 th International Exery, Energy and Environment Symposium, University of Split, Croatia, May 14-17, 2017., Attendee, Split, Croatia, 2017
IEEEES-9, 9 th International Exery, Energy and Environment Symposium, University of Split, Croatia, May 14-17, 2017., Attendee, Split, Croatia, 2017
Samsun beton yol, Attendee, Samsun, Turkey, 2017
Samsun beton yol sempozyumu, Invited Speaker, Samsun, Turkey, 2017
AASRC MULTİLINGUAL INTERNATIONAL CONFERENCE, Attendee, Ankara, Turkey, 2016
International Black Sea Mining and Tunnelling Symposium 2016, Attendee, Trabzon, Turkey, 2016
12 th international congress on advances in civil engineering, Attendee, İstanbul, Turkey, 2016
Beton yol toplantısı, Attendee, Trabzon, Turkey, 2016
Ulusal beton kongresi, Attendee, Antalya, Turkey, 2016
7.kentsel altyapı sempozyumu, Attendee, Trabzon, Turkey, 2015
7.kentsel altyapı sempozyumu, Panelists, Trabzon, Turkey, 2015
13.uluslararası teknik seminer, Panelists, Antalya, Turkey, 2015
13th TÇMB International technical seminar and exhibition, Attendee, Antalya, Turkey, 2015
ace 2016, Attendee, Trabzon, Turkey, 2015

XIX ULUSAL MEKANİK KONGRE, Attendee, Trabzon, Turkey, 2015
ace 2015, Session Moderator, Trabzon, Turkey, 2015
beton yol toplantısı, Attendee, Elazığ, Turkey, 2015
Trabzon kamu kuruluşları için beton yol uygulamaları, Attendee, Trabzon, Turkey, 2014
3. Orman İnşaat Transportu ve teknolojileri, Attendee, Trabzon, Turkey, 2014
Beton yol ve uygulamaları, Attendee, Elazığ, Turkey, 2014
Tebriz, Invited Speaker, Tabriz, Iran, 2014
hazır beton kongresi, Attendee, İstanbul, Turkey, 2013
1.uluslararası raylı sistemler mühendisliği çalıştayı IWRSE 12, Attendee, Karabük, Turkey, 2012
conference ICCT 09 perpetual office of international conferences on seismic retrofitting 2012, Attendee, Tabrîz, Iran, 2012
İnternational Participated contruction congress, Attendee, Elazığ, Turkey, 2011
1 st International conference on advanced comuting and communication technolgy, Attendee, Kochi, India, 2011
International Conference on Concrete Technology, Invited Speaker, Tabriz, Iran, 2010
9 th international congress on advances in civil engineering, Attendee, Trabzon, Turkey, 2010
International Conference on Concrete Technology, Session Moderator, Tabriz, Iran, 2009

Citations

Total Citations (WOS):177
h-index (WOS):4

Scholarships

NATO B2 BURSUSU, DOKTORA SONRASI ARAŞTIRMA, TUBITAK, 2004 - Continues
Yurtdışı Doktora, Ministry of Education, 1997 - Continues
YURTDIŞI MASTIR EĞİTİM, Ministry of Education, 1994 - Continues

Awards

AKPINAR M. V. , beton yol uygulaması, Giresun üniversitesi, August 2018
AKPINAR M. V. , BETON YOL ARAŞTIRMALARI, AKÇANSA ÇİMENTO SANAYİ VE TİCARET A.Ş., October 2015
AKPINAR M. V. , Onur öğrencisi, karadeniz teknik üniversitesi, May 1991

Visual Activities

AKPINAR M. V. , TV / Radio Training Program in Corporate Studios, 2018 - Continues
AKPINAR M. V. , TV Show, 2019 - 2019
AKPINAR M. V. , TV Show, 2018 - 2018
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AKPINAR M. V. , TV Show, 2016 - 2016
AKPINAR M. V. , TV / Radio Training Program in Corporate Studios, 2016 - 2016
AKPINAR M. V. , TV / Radio Training Program in Corporate Studios, 2009 - 2009

Non Academic Experience

Business Establishment Private, 1. Tümaş A.Ş. Avrupa Birliği Hibe Programı, Samsun Tekkeköy Lojistik Üssü

Business Establishment Private, Türkiye Çimento Müstahsiller Birliđi, Beton
Business Organization (private), Ground Technolgy, Houston Tx, Beton Yol Ve Geotechnic