

Prof. MUHAMMET VEFA AKPINAR

Personal Information

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Publons / Web Of Science ResearcherID: J-2830-2017

ScopusID: 24398356200

Yoksis Researcher ID: 151394

Biography

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

Prof.Dr. Akpinar'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.

Prof.Dr. Akpinar has taught graduate and undergraduate courses in Transportation and Geotechnical Engineering fields. He has thought about 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 a principal investigator on several major pavement instrumentation projects, including projects completed for the Turkish National Science Foundation, TUBİTAK, 106M423 where he developed a new device that can be used as a pullout and as a full-scale direct shear box, especially for geogrid performance under pavement evaluation.

Prof.Dr. has a solid working relationship with the Turkish Highway General Office, TCK, and has completed several major forensic investigations to identify the 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.

Prof.Dr. Akpinar'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 the principal investigator of the Accelerated Pavement Testing Program which is the only program available in Turkey and one of the most comprehensive programs in Europe. As part of this effort, he is building pavement deterioration curves based on information stored in the Flexible Pavement DataBase. One important aspect of this system is the development and implementation of a mechanistic pavement design procedure for Turkish highways. Prof.Dr. Akpinar 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.

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, B2 Upper Intermediate

Certificates, Courses and Trainings

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

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

Other, Kamuşturma, 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

Professor, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2018 - Continues

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, 2012 - 2018

Researcher, 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 Mühendisliği, 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, 2017 - 2018, 2016 - 2017

Hızlandırılmış Yol Testi, Doctorate, 2017 - 2018

INSL7521 Geosentetiklerle Yolların Güçlendirilme.İng., Postgraduate, 2017 - 2018, 2015 - 2016

QUALITY CONTROL IN HIGHWAY CONSTRUCTION, Postgraduate, 2017 - 2018

iş makinaları , Undergraduate, 2016 - 2017

DEMİRYOLU, Undergraduate, 2017 - 2018

SEL 475 -A CONCRETE ROAD DESIGN AND APPLICATION-A, Undergraduate, 2017 - 2018

SEL 475 - Concrete Road Design And Application [Teknik(Bölüm)Seçmeli] - B, Undergraduate, 2017 - 2018

STABILITY OF ROAD AMBANKMENTS, Postgraduate, 2016 - 2017

Silindirle Sıkıştırıla.Beton Yollar, Doctorate, 2016 - 2017

Advising Theses

AKPINAR M. V., kent içi ulaşım mastır planı, Postgraduate, y.kirimoğlu(Student), Continues

AKPINAR M. V., sİLİNDİRLE SIKIŞTILABİLEN BETON YOLLARDA FİBER KATKILARI, Doctorate, E.Avcı(Student), Continues

AKPINAR M. V., polymer bazlı lfile güçlendirilmiş beton yolların performansı, Postgraduate, Ö.Faruk(Student), Continues

AKPINAR M. V., RCC beton yollarda boylam derz çatlıkların minmize edilmesi, Doctorate, M.Nas(Student), Continues

AKPINAR M. V., beton yollarda sili genleşmeye bağlı gerilmelerin tespiti, Postgraduate, M.Tan(Student), Continues

AKPINAR M. V., Beton Yollarda Albedo etksinin azaltılması ve derzsiz yol inşası, Doctorate, S.sevin(Student), Continues

AKPINAR M. V., Geri dönüşüm asfalt malzemelerin temel malzemesi olarak kullanımının artırılması, Doctorate, A.Güneş(Student), Continues

AKPINAR M. V., Beton yollarda derz aralığın 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 kaplamaların 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 tasarımda 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, mastır tez, karadeniz teknik üniversitesi, May, 2017

Doctorate, doktora tez, karadeniz teknik üniversitesi, March, 2016

Post Graduate, juri, 19 Mayıs Üniversitesi, December, 2015

Appointment to Academic Staff-Assistant Professorship, juri, artvin üniversitesi, March, 2015

Post Graduate, juri, Recep Tayyip Erdoğan Üniversitesi, March, 2015

Post Graduate, Mastır 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 meatlurji, karadeniz teknik üniversitesi, January, 2013

Post Graduate, mastır tez savunma metalurji, karadeniz teknik üniversitesi, February, 2012

Doctorate, doktora tez savunma, karadeniz teknik üniversitesi, January, 2010

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Investigating the Influence of Joint Reinforcements of Portland Cement Concrete Slabs Under Asphalt Concrete Overlays on Vertical Deflections Using Accelerated Pavement Testing**
Seferoglu M. T., Seferoglu A. G., Celik M., AKPINAR M. V.

TRANSPORTATION RESEARCH RECORD, vol.2676, no.11, pp.296-305, 2022 (SCI-Expanded)

II. **Strength properties of roller compacted concrete pavement (RCCP) under different curing methods**
KELEŞ Ö. F., AKPINAR M. V.

CONSTRUCTION AND BUILDING MATERIALS, vol.324, 2022 (SCI-Expanded)

III. **Evaluation of Load-Transfer Efficiency of Steel Mesh Reinforced Contraction Joints in Concrete Pavement: Accelerated Pavement Test and FE Analysis**
Celik M., Seferoglu M. T., AKPINAR M. V., Nasery M. M., Seferoglu A. G.

TEKNIK DERGI, vol.32, no.6, pp.11337-11359, 2021 (SCI-Expanded)

IV. **Performance of AC overlays using geogrids on PCC contraction joints**
Celik M., Seferoglu M. T., AKPINAR M. V.

GEOTEXTILES AND GEOMEMBRANES, vol.49, no.4, pp.1058-1065, 2021 (SCI-Expanded)

V. **MECHANISTIC RESPONSES OF ASPHALT CONCRETE OVERLAY OVER JOINTED PLAIN CONCRETE PAVEMENT USING FINITE ELEMENT METHOD**
Diallo A. O., AKPINAR M. V.

BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING, vol.15, no.5, pp.80-93, 2020 (SCI-Expanded)

VI. **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 (SCI-Expanded)

VII. **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 (SCI-Expanded)

VIII. **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 (SCI-Expanded)

- IX. 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 (SCI-Expanded)
- X. Effects of fine aggregate abrasion resistance and its fineness module on wear resistance of Portland cement concrete pavements**
Karpuz O., AKPINAR M. V., Aydin M. M.
Revista de la Construcción, vol.16, no.1, pp.126-132, 2017 (SCI-Expanded)
- XI. 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 (SCI-Expanded)
- XII. 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 (SCI-Expanded)
- XIII. Determining the Critical Tire and Axle Configuration for Flexible Pavements Based on Mechanistic Analysis**
Ozcanan S., AKPINAR M. V.
TEKNİK DERGİ, vol.25, no.1, pp.6625-6654, 2014 (SCI-Expanded)
- XIV. 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 (SCI-Expanded)
- XV. 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 (SCI-Expanded)
- XVI. 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 (SCI-Expanded)
- XVII. Investigation of Geogrid Performance on Highway Subbase By Using The Pullout Test Device**
SERT T., AKPINAR M. V.
TEKNİK DERGİ, vol.22, no.1, pp.5285-5304, 2011 (SCI-Expanded)
- XVIII. Investigation of geogrid performance on highway subbase by using the pullout test device, Pullout test aleti ile karayolu alttemelinde geogrid performansının araştırılması**
Sert T., Akpinar M. V.
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.22, pp.5285-5304, 2011 (SCI-Expanded)
- XIX. Effects of truck load position on longitudinal joint deterioration**
Akpinar M. V.
INDIAN JOURNAL OF ENGINEERING AND MATERIAL SCIENCES, vol.15, no.1, pp.36-40, 2008 (SCI-Expanded)
- XX. Effect of cement on emulsified asphalt mixtures**
Oruc S., Celik F., Akpinar M. V.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.16, no.5, pp.578-583, 2007 (SCI-Expanded)
- XXI. 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 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of fatigue behavior of fiber reinforced concrete pavements under dynamic load**
kanbak c., Ozcanan S., akpinar m., Atahan A.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.13, no.4, pp.1009-1018, 2023 (Peer-Reviewed Journal)
- II. **Friction Loss of Concrete Pavement Surface**
KARPUZ O., ÇELİK M., AKPINAR M. V., ASLAN H., ÇİÇEK E.
Journal of Innovative Engineering and Natural Science, vol.2, no.2, pp.66-75, 2022 (Peer-Reviewed Journal)
- III. **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 (Peer-Reviewed Journal)
- IV. **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 (Scopus)
- V. **Trabzon Uzungöl Sit Alanı için Kaya İslahı 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 (Peer-Reviewed Journal)
- VI. **Hızlandırılmış Yol Testleri**
AKPINAR M. V.
Türkiye Mühendislik Haberleri, TMMOB, İnşaat Mühendisleri Odası, vol.2, no.1, pp.9-19, 2017 (Peer-Reviewed Journal)
- VII. **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 (Peer-Reviewed Journal)
- VIII. **Heavy lead (Pb) mobility in compacted clay soilsunder landfill liners**
AKBULUT ÖZEN S., AKPINAR M. V., ÇEVİK U.
International Journal of Application or Innovation in Engineering Management, vol.6, no.5, pp.65-71, 2017 (Peer-Reviewed Journal)
- IX. **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 (Peer-Reviewed Journal)
- X. **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 (Peer-Reviewed Journal)
- XI. **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 (Peer-Reviewed Journal)
- XII. **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 (Peer-Reviewed Journal)
- XIII. **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
(Peer-Reviewed Journal)
- XIV. **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 (Peer-Reviewed Journal)
- XV. **Assessing Permanent 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 (Peer-Reviewed Journal)
- XVI. **research on feasibility of plate loading testing on highway pavement layers**
 seferoğlu a. g., AKPINAR M. V.
 e-journal of new world science academy, vol.6, no.4, pp.1190-1199, 2011 (Peer-Reviewed Journal)
- XVII. **Hızlandırılmış Yol Testi**
 AKPINAR M. V.
 Hazır Beton, THBB, no.97, pp.63-65, 2010 (Peer-Reviewed Journal)
- XVIII. **İnce Agrega Türünün Kaplama Betonunun Aşınma Direncine Etkisi**
 KARPUZ O., AKPINAR M. V.
 Electronic Journal of Construction Technologie, vol.5, no.2, pp.1-8, 2009 (Peer-Reviewed Journal)
- XIX. **Identification of interfacial stress pattern on dentin post interface**
 AKPINAR M. V., Akpinar Y.
 Journal of Dental Clinics and Research, vol.5, no.2, pp.103-110, 2009 (Peer-Reviewed Journal)
- XX. **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 (Peer-Reviewed Journal)
- XXI. **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 (Peer-Reviewed Journal)
- XXII. **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 (Peer-Reviewed Journal)
- XXIII. **Analysis of Intercity Transportation Mode Choice From Banjarmasin City Disaggregate Logit Model**
 Radam I. F., AKPINAR M. V., Örnak M.
 Çukurova Univ. Journal of Faculty of Engineering, vol.19, pp.112-132, 2004 (Peer-Reviewed 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 , Illinois Urbana, Chicago, pp.100-120, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **TÜNELLERDE LİFLİ BETONLARIN ENERJİ YUTMA GÖSTERGESİ TOKLUK İNDEX 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**
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- VII. **KARADENİZ TECHNICAL UNIVERSITY ACCELERATED PAVEMENT TEST (KTU-APT) FACILITY STUDIES, PROBLEMS AND SOLUTION PROPOSALS**
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- 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.
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- IX. **Reduction of Waste and Ecological Damage on Roads with Reclaimed Asphalt Pavements**
 SEFEROĞLU A. G., SEFEROĞLU M. T., AKPINAR M. V.
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- 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.
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- XI. **Properties Of Recycled Concrete Aggregate (RCA) Obtained From Concrete Pavement**
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- XII. **Temperature Variations Within the Concrete Pavement Thickness After Heating for De-Icing**
 AKPINAR M. V., SEFEROĞLU M. T.
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- XIII. **Urban Heat Island Effects of Concrete Road and Asphalt Pavement Roads**
 AKPINAR M. V., Sevin S.
 9th International Exergy, Energy and Environment Symposium (IEEEES), Split, Croatia, 14 - 17 May 2017, pp.51-59
- XIV. **Reducing Urban Heat Islands by Developing Cool Pavements**
 AKPINAR M. V., Sevin S.
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- XV. **Comparison of Asphalt and Concrete Pavement Solar Reflectance**
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- XVI. **DEMİR YOLLARINDAKİ TRAVERSLER ARASI OPTİMUM MESAFENİNARAŞTIRILMASI**
 KARABULUT M., POLAT M., AKPINAR M. V.
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- XVII. **Demir Yollarındaki Traversler Arası Optimum Mesafenin Araştırılması**
 KARABULUT M., POLAT M., AKPINAR M. V.
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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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 II. International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 September - 23 October 2017, pp.49-50
- XIX. **First Large Scale Accelerated Pavement Test Laboratory in Turkey**
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- XXI. **Investigating albedo's effect to develop cool pavement in urban areas**
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- XXIV. **The investigation of concrete pavements for energy saving in urban area**
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- XXV. **Urban heat island effects of concrete road and asphalt pavement roads**
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- XXVII. **Comparison of the Cost, Construction and Benefit of the Innovative Steel Barriers and Embankment
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- XXIX. **Daily Temperature Change in Concrete Pavements, Albedo effect and Stress Analysis by 3D Finite
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- XXX. **Fieldand loading unit anaysis of vertical pressure ditribution on highway sublayers**
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- XXXI. **usibility of waste recyled aggregate in rigid pavement roads usingKTUÜ-Accerlated 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
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- XXXV. **In Order to Establish A Sustainable Transportation In The East Black Sea Region Investigating the
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- XXXVIII. **Beton Yollarda Günlük Meydana Gelen Sıcaklık Değişiminin Oluşturduğu Gerilmelerin 3D Sonlu Elemanlar Yardımıyla Mekanistik Ampirik Analizi**
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- XL. **Temel Tabakası Rijitliğine Bağlı Olarak Kaplama Kalınlığının Mekanistik Analizle Tayini**
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- XLI. **Beton Yolların Mekanistik Tasarımlarının Ve Performanslarının Sonlu Elemanlar Yöntemi Ve Hızlandırılmış Yol Testleriyle Belirlenmesi**
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- XLII. **The shape analysis of geogrids with different aperture structures used for road subgrade reinforcement**
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- XLVII. **"Theoretical Investigation of Cross Tensioned Concrete Pavement"**
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- XLVIII. **An Investigation on Pullout Test Device Dimensions**
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- LIII. **The effect of Transverse Tining on Friction and Compression Strength at Concrete Roads**
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- LVI. **Development of a Numerical Procedure to Evaluate the Influence of Aggregate Gradation on the Rutting of HMA**
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Akpinar M. V., TUBITAK Project, Beton Yol Kaplamalarda Isıl Çatlakların Önlenmesi İçin Genleştirilmiş Perlitli HafifBeton Kullanımının Araştırılması, 2022 - 2024
Akpinar M. V., EU Supported Other Project, TRABZON İLİORTAHİSAR İLÇESİKENT İÇİ TOPLU TAŞIMA SİSTEMİNİN REVİZYONURAPORU, 2020 - 2021
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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 Higher Education Institutions, Yol Kaplamaların Trafik Yüklemeleri Altındaki Davranışının Dinamik Yükleme Düzeneğiyle İncelenmesi, 2010 - 2010
AKPINAR M. V., Project Supported by Higher Education Institutions, Hızlandırılmış yol testi ile karayolu dolgu kalınlıklarının belirlenmesi, 2008 - 2010
Güler M., 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
Akpinar M. V., Ekinci M., 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 International Funding Programs, 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 engineering, Member, 2000 - Continues
Geosentetikler Derneği, Member, 2011 - 2013
Ulaştırma bakanlığı ulaşırma şurası, Member, 2009 - 2010
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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
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Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, April 2017
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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
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Scientific Consultations

Ulaştırma Bakanlığı AYGM, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat

Mühendisliği, Turkey, 2022 - Continues

AKÇANSA, Other, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, Turkey, 2015 - Continues

Türkiye Çimento müstahsiller birligi, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, Turkey, 2013 - Continues

Ulaştırma Bakanlığı, Scientific Consultancy, Turkey, 2009 - 2009

Metrics

Publication: 115

Citation (WoS): 232

Citation (Scopus): 309

H-Index (WoS): 6

H-Index (Scopus): 7

Congress and Symposium Activities

2.ulusal tüneller ve altyapılar kongresi, Invited Speaker, Ankara, Turkey, 2019

Ulaştırma lojistik, Attendee, Sakarya, Turkey, 2018

SSB Ağrı uygulaması, Invited Speaker, Ağrı, Turkey, 2018

Beton yol, Invited Speaker, Ankara, Turkey, 2018

Thermal Stress Analysis of Concrete Pavement under Different Albedo Values., 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

Daily Temperature Change in Concrete Pavements, Albedo effect and Stress Analysis by 3D Finite Element Method., Attendee, Bayburt, Turkey, 2017

IEEES-9, 9 th International Exery, Energy and Environment Symposium, University of Split, Croatia, May 14-17, 2017., Attendee, Split, Croatia, 2017

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samsun beton yol sempozumu, Invited Speaker, Samsun, Turkey, 2017

samsun beton yol, Attendee, Samsun, Turkey, 2017

AASRC MULTILINGUAL 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 sempozumu, Attendee, Trabzon, Turkey, 2015

7.kentsel altyapı sempozumu, 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, Tabriz, Iran, 2012
International Participated construction congress, Attendee, Elazığ, Turkey, 2011
1 st International conference on advanced computing and communication technology, 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

Scholarships

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

Awards

AKPINAR M. V., beton yol uygulaması, Giresun üniversitesi, August 2018
AKPINAR M. V., BETON YOL ARAŞTIRMALARI, AKÇANSA ÇIMENTO 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
AKPINAR M. V., TV Show, 2018 - 2018
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 Birliği, Beton
alanya keykubat üniversitesi
Türkiye çimento müstahsille birliği
avrupa lefke üniversitesi
ground technology
Business Organization (private), Ground Technology, Houston Tx, Beton Yol Ve Geotechnic