

## Prof. Mehmet SALTAN

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### Education Information

Doctorate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, Turkey Continues  
Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, Turkey Continues  
Undergraduate, Akdeniz University, Isparta Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey Continues

### Research Areas

Civil Engineering, Transportation Engineering, Road Materials, Engineering and Technology

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Site Assessment of Surface Texture and Skid Resistance by Varying the Grit Parameters of an SMA**  
Gokalp I., Uz V. E. , SALTAN M., Tepe M.  
JOURNAL OF TRANSPORTATION ENGINEERING PART B-PAVEMENTS, vol.148, no.3, 2022 (Journal Indexed in SCI)
- II. **Investigation of effects of Cocamide Diethanolamide chemical on physical and rheological properties of bituminous binder**  
KAÇAROĞLU G., SALTAN M.  
FRONTIERS OF STRUCTURAL AND CIVIL ENGINEERING, vol.16, pp.99-116, 2022 (Journal Indexed in SCI)

### Books & Book Chapters

- I. **Isparta İli Kentiçi Ulaşım Sorunları Ve Çözüm Önerileri Analizi**  
KARASHAHİN M., SALTAN M., TERZİ S., TIĞDEMİR M., CEYLAN H., HALDENBİLEN S., AKBULUT H., MOROVA N., UZ V. E. , KALYONCUOĞLU Ş. F. , et al.  
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- II. **Cold-in Place and Full Depth Reclamation with Foamed Asphalt**  
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**V. Backcalculation of Pavement Layer Thickness and Moduli Using Adaptive Neuro-fuzzy Inference System,**

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## **Refereed Congress / Symposium Publications in Proceedings**

**I. Coğrafi Bilgi Sistemleri ile Yaya Yolu Güzergah Seçimi: Süleyman Demirel Üniversitesi Örneği**

BAYKAL T., ÖZKICI G., ERGEZER F., TERZİ S., SALTAN M.

MAS European International Congress on Mathematics-Engineering- Natural and Medical Sciences-XI, Tokat, Turkey, 13 - 15 March 2020, pp.74-85

**II. COĞRAFİ BİLGİ SİSTEMLERİ İLE YAYA YOLU GÜZERGAH SEÇİMİ: SÜLEYMAN DEMİREL ÜNİVERSİTESİ ÖRNEĞİ**

Baykal T., KICI G. Ö. , ERGEZER F., TERZİ S., SALTAN M.

MAS Int.European Conf. on Math-Eng-Nat-Med Sci-XI, 13 - 15 March 2020, pp.73-84

**III. A Review for Sensitivity Analyses on Isparta State Highways According to Mechanistic Empirical Pavement Design Method**

ARMAĞAN K., SALTAN M., TERZİ S., KIRAÇ N.

Techno-Science 2019, Burdur, Turkey, 14 - 16 November 2019

**IV. Nano Cu<sub>2</sub>O ve SiO<sub>2</sub> ile Modifiye Edilmiş Asfalt Kaplamaların Performans Analizi**

KARAHANÇER Ş., ERİŞKİN E., SALTAN M., TERZİ S., AKBAŞ M. Y. , CENGİZHAN A.

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SALTAN M., İNKAYA N.

1. International Symposium on Innovations in Civil Engineering and Technology, Afyon, Turkey, 23 - 25 October 2019, vol.1, pp.513

**VI. Estimated Dynamic Elasticity Modules Comparison of Mechanistic Empirical Design Method for a Konya State Sample**

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The International Aluminium-Themed Engineering And Natural Sciences Conference, Seydişehir, Turkey, 4 - 06 October 2019

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**VIII. The Use of Recycle Solid Wastes as Mineral Filler in Hot Mixed Asphalt: An Environmentally Sustainable Approach**

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4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, vol.1, pp.644-647

**IX. Moisture Susceptibility of Nano-Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub> Modified Asphalt Mixtures**

Karahancer S., Eriskin E., SALTAN M., TERZİ S., Akbas M., CENGİZHAN A.

International Airfield and Highway Pavements Conference 2019: Testing and Characterization of Pavement Materials, Illinois, United States Of America, 21 - 24 July 2019, pp.127-135

- X. **Investigation the Usability of Garnet as Filler Material in Hot Mix Asphalt**  
KARAHANÇER Ş., ERİŞKİN E., ARMAĞAN K., MOROVA N., KAÇAROĞLU G., KARADAĞ Ö., SALTAN M., TERZİ S.  
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- XI. **Comparison of Dynamic Modulus Assignments for Isparta State Highways According to Mechanistic Empirical Pavement Design Method**  
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- XII. **Expanded Glass Usability in Hot Mix Asphalt as Fine Aggregate**  
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- XIII. **Utility of Aramid, Polyolefin and Polyprepene Combination in Hot Mix Asphalt as a Fiber Material**  
KARAHANÇER B., MOROVA N., KARAHANÇER Ş., ERİŞKİN E., TERZİ S., SALTAN M.  
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- XIV. **Experimental Investigation of the Stabilization Performance Trends of Two Geogrids Constructed on Low Bearing Capacity Subgrade**  
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- XV. **Sulphur Factory Waste Usability in Hot Mix Asphalt as Filler Material**  
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- XVI. **A Review for The Usability of Self-Healing Methods in HMA as Maintenance Policy**  
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- XVII. **The investigation of Polyamide fiber as an additive in HMA**  
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- XVIII. **Usability of Hemp Fiber in Dense Graded Hot Mix Asphalt Mixture**  
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- XIX. **Pavement Performance Assessment by ANFIS approach Using Marine Corps Air Station Cherry Point, North Carolina Data**  
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- XX. **Predicting of Traffic Loads by the Help of Climate Data Using Data Mining**  
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- XXI. **Bitümlü Sıcak Karışım Uygulamalarında Asfaltın Kendini İyileştirme Yöntemleri ve Faydaları**  
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- XXII. **Karayollarında Zemin Penetrasyon Radarı (GPR) İle Kalite Kontrol Uygulaması**  
SERİN S., SALTAN M., TERZİ S.  
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- XXIII. **Mechanistic Empirical Design Method Analysis Of HMA With Self Healing Material**  
ARMAĞAN K., MALKOÇ G., TERZİ S., SALTAN M.  
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- XXIV. **Dynamic Elasticity Modulus Assignment According To Mechanical Empirical Pavement Design Method On Isparta State Highways**  
ARMAĞAN K., SALTAN M., TERZİ S., KIRAÇ N.  
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- XXV. **Modelling Marshall Stability of fiber reinforced asphalt mixtures with ANFIS**  
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2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2017, Gdynia, Poland, 3 - 05 July 2017, pp.174-179
- XXVI. **Comparing CBR values obtained from field with laboratory test results**  
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- XXVII. **Comparative laboratory evaluation of macro texture depth of chip seal samples using sand patch and outflow meter test methods**  
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- XXVIII. **A laboratory evaluation on skid resistance performance of surface coatings manufactured by both natural aggregates and by-products**  
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- XXIX. **Evaluation of Concrete Waste as Filler Material in Hot Mix Asphalt**  
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- XXX. **Mekanistik Ampirik Kaplama Dizayn Metodu Uygulanmasının Sürdürülebilir Kalkınma Açısından Önemi**  
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12.Ulaştırma Kongresi Ulaştırma Politikaları, Turkey, 24 - 26 May 2017, pp.171-180
- XXXI. **Specific Gravity Estimating Using Artificial Neural Network with Penetration and Penetration Index Parameters**  
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III International Conference on Engineering and Natural Sciences, 3 - 07 May 2017
- XXXII. **Performance Grade Assignment And Usage Of Asphalt Binder For Mechanistic Empirical Pavement Design Method: A TurkeySample**  
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- XXXIII. **MUZ AĞACININ GÖVDE LİFLERİNİ KULLANILARAK ASFALT KARIŞIMIN DAYANIMININ İYİLEŞTİRİLMESİ**  
SİVRİ Ç., KARAHANÇER Ş., ERİŞKİN E., SALTAN M., TERZİ S.  
UTIB Türkiye Tekstil ve Konfeksiyon Sektöründe 9. Uluslararası Ar-Ge Proje Pazarı, Bursa, Turkey, 27 - 28 April 2017
- XXXIV. **PTFE VE NAYLON ATIK LİF KULLANILARAK ASFALT KARIŞIMIN NEME KARŞI HASSASİYETİNİN AZALTILMASI**  
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- XXXV. **Examination of the Effect of Superhydrophobic Coated Pavement under Wet Conditions**  
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**XXXVI. Optimization of Traffic Signal Timing at Oversaturated Intersections Using Elimination Pairing System**

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**XXXVII. Plasma Enhanced preparation of graphene polyfuran nanocomposites**

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3.International congress on biosensors, 5 - 07 October 2016

**XXXVIII. Karayolu U styapısında Dolaylı C ekme Yorulma Deformasyon Deg erlerinin Tahribatsız Elektromanyetik Yog unluk O lc er Verileriyle Tahmini ic in YSA Modeli**

SERİN S., SALTAN M., TERZİ S., MOROVA N., KARAHANÇER Ş.

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**XXXIX. Backcalculation of Pavement Layer Thickness and Moduli by Wavelet Neuro Approach**

SALTAN M., TERZİ S., TERZİ Ö.

Int'l Conference on Transportation and Development, 26 - 29 June 2016

**XL. Effect of Aggregate Embedment On Chip Seal Retention Performance**

AKTAŞ B., KARAŞAHİN M., SALTAN M., GÜRER C.

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**XLI. Monitoring the Condition of Surfacing Seals with Nondestructive Tests at Field**

KARAŞAHİN M., GÜRER C., SALTAN M., AKTAŞ B.

Euroasphalt&Eurobitumen, 1 - 03 June 2016

**XLII. IRI Estimation of Route 93 Arizona by Least Squares Method and Fuzzy Logic**

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6TH WORLD CONFERENCE ON INNOVATION AND COMPUTER SCIENCE, 12 - 14 May 2016

**XLIII. TÜRKİYE NİN GÜNEY KESİMLERİNDE FAALİYET GÖSTEREN ÇELİK ÜRETİM TESİS CÜRUFULARININ FİZİKO MEKANİK KARAKTERİZASYONU VE KTŞ YE GÖRE FARKLI YOL TABAKALARINDA KABA AGREGA OLARAK KULLANILABİLİRLİĞİ**

GÖKALP İ., ERGİN B., UZ V. E. , SALTAN M.

8. Ulusal Katı Atık Yönetimi Kongresi UKAY 2016, Turkey, 11 - 14 May 2016

**XLIV. Physico Mechanical Characterization of Steel Slags Produced by the Facilities in Southern of Turkey and Usability as Coarse Aggregate in Different Pavement Layer According to Turkish HTS**

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**XLV. Plasma Enhanced preparation of conducting polymers multiwalled carbon nanotube nanocomposites for dye sensitized solar cells**

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**XLVI. Marshall Stability Estimating Using Artificial Neural Network with Polyparaphenylene Terephtalamide Fibre Rate**

Karahancer S., ÇAPALI B., Erişkin E., Morova N., Serin S., SALTAN M., TERZİ S., KUCUKCAPRAZ D. O.

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**XLVII. Backcalculation of Pavement Layer Thickness and Moduli by the Wavelet-Neuro Approach**

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**XLVIII. Feasibility of Using 4th Power Law in Design of Plastic Deformation Resistant Low Volume Roads**

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- XLIX. Comparison of DCP CBR and RLT Test Results for Granular Pavement Materials and Subgrade with Structural Perspective**  
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- L. Yaşam Alanı Daralan Kızıl Akbabanın Yuvaları için Yeni Bir Ölçüm Metodu Teodolit**  
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XII. Ulusal Ekoloji ve Çevre Kongresi, Turkey, 14 - 17 September 2015
- LI. Öztürk Y Tabur M A Saltan M 2015 Yaşam Alanı Daralan Kızıl Akbaba nın Yuvaları için Yeni Bir Ölçüm Metodu Teodolit 12 Ulusal Ekoloji ve Çevre Kongresi 14 17 Eylül 2015 Muğla**  
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- LII. Modeling the present serviceability ratio PSR of flexible highway pavements by wavelet neuro approach**  
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- LIII. Area wide ANPR coverage with a small number of instrumented vehicles**  
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- LIV. PLASMA EMPOWERED LIMESTONE MINERAL FILLER FOR ASPHALT PERFORMANCE APPLICATIONS**  
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- LV. The Effect of Lane Discipline to Intersection Capacity A Sample Study of Isparta**  
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- LVI. Examining the Effect of Sustainable Traffic Control of the Safety Belt and Helmet use A Sample Study in Isparta**  
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- LVII. Plasma Empowered Limestone Composite Structures for Asphalt Performance Applications**  
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- LVIII. Pavement performance prediction through fuzzy logic using Marine Corps air station cherry point, North Carolina measurements**  
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2013 Airfield and Highway Pavement Conference: Sustainable and Efficient Pavements, Los Angeles, CA, United States Of America, 9 - 12 June 2013, pp.650-661
- LIX. Kevlar in Fiber Olarak Sıcak Asfalt Karışımlarda Kullanılabilirliği**  
MOROVA N., TERZİ S., SALTAN M., ÖZDEMİR KÜÇÜKÇAPRAZ D., SERİN S., SARGIN Ş., AKSAKAL E.  
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- LX. Kısa Süreli, Yoğun Kontrollerin Emniyet Kemer ve Kask Kullanımına Etkilerinin Araştırılması: Isparta Örneği**  
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10. Ulaştırma Kongresi, İzmir, Turkey, 25 - 27 October 2013, pp.413-421
- LXI. Feasibility of Detecting Debonding of Hot Mix Asphalt Layer with Nondestructive Testing**  
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- LXII. Modeling Marshall stability of light asphalt concretes fabricated using expanded clay aggregate with artificial neural networks**

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**LXIII. An Environmental Method against Icing for Road Pavements I A New Icy Abrasion Material and Analysis**

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**LXIV. Birden fazla tabakalı sathi kaplamaların fiziksel özelliklerinin araştırılması**

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**LXV. Fuzzy Logic Modeling of Deflection Behavior Against Dynamic Loading in Flexible Pavements**

SALTAN M., SALTAN S., ŞAHİNER A.

MathTools'2004 : Computer Modelling of Dynamical Systems WorkShop, 1 - 04 June 2004

## Supported Projects

AYYILDIZ N., TERZİ S., SALTAN M., SEZGİN A., Project Supported by Higher Education Institutions, Yükseköğretim Mekanlarının Metrik ve İç Ortam Kalitesi Ölçümlerinin Gerçekleştirilmesi Projesi, 2018 - 2019

TERZİ S., KARASHAHİN M., MOROVA N., POLAT E., BAKİ Ö. B. , SALTAN M., SERİN S., ŞENER E., Project Supported by Higher Education Institutions, Zemin Penetrasyon Radar Cihazı ile Asfalt Üstyapıların Kalınlıklarının Belirlenmesi ve Diğer Tahribatsız Test Yöntemleri ile İlişkinin Belirlenmesi, 2011 - 2014

TERZİ S., SALTAN M., TUNCUK M., FINDIK S., KARASHAHİN M., Project Supported by Higher Education Institutions, Sathi Kaplamaların Fiziksel Özelliklerinin Araştırılması, 2005 - 2007

## Memberships / Tasks in Scientific Organizations

Suleyman Demirel Üniversitesi, Chairman, 2017 - Continues

Süleyman Demirel Üniversitesi, Member, 2017 - Continues

Süleyman Demirel Üniversitesi, Member, 2016 - Continues

Kalite Komisyonu, Member, 2016 - Continues

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## Citations

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