Prof. Himmet Karaman

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International Researcher IDs
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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Geomatik Mühendisliği (Dr), Turkey 2003 - 2008
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2001 - 2003
Undergraduate, Istanbul Technical University, İnşaat Fakültesi, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, Turkey 1997 - 2001

Foreign Languages

English

Dissertations

Doctorate, Sonuç bazlı risk yönetimi ve deprem kayıp tahmini analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Geomatik Mühendisliği (Dr), 2008
Postgraduate, İTÜ kampüsü afet bilgi sistemi, afet yönetimi obje modelinin oluşturulması ve ilişkili sorgulamaların yapılandırılması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2003

Research Areas

Geotechnical Engineering, Geographic Information Systems, Civil Engineering, Structure, Earthquake Engineering, Multi-Criteria Decision Making Analysis, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2020 - Continues
Associate Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2015 - 2020
Assistant Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2009 - 2015

Research Assistant, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2001 - 2009

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Geomatik Mühendisliği Bölümü, 2016 - Continues
Fakülte Yönetim Kurulu Üyesi, Istanbul Technical University, İnşaat, 2016 - 2020

Courses

Spatial Analyses and Algorithms in GIS, Undergraduate, 2019 - 2020
GIS for Disaster Management, Postgraduate, 2019 - 2020
GIS Projects, Undergraduate, 2020 - 2021
Fundamentals of Leveling, Undergraduate, 2019 - 2020
Fundamentals of Geomatics, Undergraduate, 2019 - 2020
Fundamentals of Surveying, Undergraduate, 2019 - 2020
Disaster Management with GIS and Remote Sensing, Doctorate, 2019 - 2020
Mekansal Veritabanları, Postgraduate, 2016 - 2017
Emergency Management Technologies, Postgraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Site Selection of Natural Gas Emergency Response Team Centers in Istanbul Metropolitan Area Based on GIS and FAHP**
Sarıkaya M. Ş., Yanalak M., Karaman H.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.11, no.11, pp.1-30, 2022 (SCI-Expanded)

II. **Offshore wind farm site selection using interval rough numbers based Best-Worst Method and MARCOS**
Deveci M., Ozcan E., John R., Pamucar D., Karaman H.
APPLIED SOFT COMPUTING, vol.109, 2021 (SCI-Expanded)

III. **Spatial Reliability Assessment of Social Media Mining Techniques with Regard to Disaster Domain-Based Filtering**
Gülnerman Gengeç A. G., Karaman H.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.9, 2020 (SCI-Expanded)

IV. **Citizens' Spatial Footprint on Twitter-Anomaly, Trend and Bias Investigation in Istanbul**
Gülnerman Gengeç A. G., Karaman H., Pekaslan D., Bilgi S.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.9, 2020 (SCI-Expanded)

V. **Site selection of the Turkish Antarctic Research station using Analytic Hierarchy Process**
Yavaşoğlu H. H., Karaman H., Özsoy B., Bilgi S., Tutak B., Gülnerman Gengeç A. G., Oktar Ö., Yirmibeşoğlu S.
POLAR SCIENCE, vol.22, 2019 (SCI-Expanded)

VI. **Accessibility of medical services following an earthquake: A case study of traffic and economic aspects affecting the Istanbul roadway**
Bakioğlu G., Karaman H.
INTERNATIONAL JOURNAL OF DISASTER RISK REDUCTION, vol.31, pp.403-418, 2018 (SCI-Expanded)

VII. **Integration of GIS, AHP and TOPSIS for earthquake hazard analysis**
Nyimbili P. H., Erden T., Karaman H.
NATURAL HAZARDS, vol.92, no.3, pp.1523-1546, 2018 (SCI-Expanded)

VIII. **Determination of building age for Istanbul buildings to be used for the earthquake damage analysis according to structural codes by using aerial and satellite images in GIS**

Konukcu B. E., Karaman H., Sahin M.
NATURAL HAZARDS, vol.85, no.3, pp.1811-1834, 2017 (SCI-Expanded)

IX. **Building damage analysis for the updated building dataset of Istanbul**
Konukcu B. E., Karaman H., SAHIN M.
NATURAL HAZARDS, vol.84, no.3, pp.1981-2007, 2016 (SCI-Expanded)

X. **Net earthquake hazard and elements at risk (NEaR) map creation for city of Istanbul via spatial multi-criteria decision analysis**
Karaman H., Erden T.
NATURAL HAZARDS, vol.73, no.2, pp.685-709, 2014 (SCI-Expanded)

XI. **Post-earthquake ignition vulnerability assessment of Kucukcekmece District**
Yildiz S. S., Karaman H.
NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.13, no.12, pp.3357-3368, 2013 (SCI-Expanded)

XII. **Analysis of earthquake parameters to generate hazard maps by integrating AHP and GIS for Kucukcekmece region**
Erden T., Karaman H.
NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.12, no.2, pp.475-483, 2012 (SCI-Expanded)

XIII. **Loss assessment study for the zeytinburnu district of Istanbul using Maeviz-Istanbul (HAZTURK)**
Karaman H., SAHIN M., ELNASHAI A. S., PINEDA O.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.12, pp.187-198, 2008 (SCI-Expanded)

XIV. **Overview and applications of Maeviz-Hazturk 2007**
Elnashai A. S., HAMPTON S., Karaman H., LEE J. S., MCLAREN T., MYERS J., NAVARRO C., SAHIN M., SPENCER B., TOLBERT N.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.12, pp.100-108, 2008 (SCI-Expanded)

XV. **Monitoring of deformations along Burdur Fethiye fault zone with GPS**
Erdogan S., SAHIN M., YAVASOGLU H. H., Tiryakioglu I., ERDEN T., KARAMAN H., TARI E., BILGI S., Tuysuz O., Baybura T., et al.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.12, pp.109-118, 2008 (SCI-Expanded)

XVI. **Earthquake loss assessment features of Maeviz-Istanbul (Hazturk)**
Karaman H., SAHIN M., ELNASHAI A. S.
JOURNAL OF EARTHQUAKE ENGINEERING, vol.12, pp.175-186, 2008 (SCI-Expanded)

Articles Published in Other Journals

I. **Antarktika'da Küresel İklim Değişikliği İzleme için GNSS İstasyon Tasarımı: TUR1 ve TUR2 GNSS İstasyonlarının 4. Ulusal Antarktika Bilim Seferi\u2019nde Antarktika Horseshoe Adası'na Kurulumu**
SELBESOĞLU M. O., YAVAŞOĞLU H. H., KARABULUT M. F., YAVAŞOĞLU H. A., ÖZCAN H. G., OKTAR Ö., ÖZSOY B., KARAMAN H., KAMAŞAK M. E., GÜLAL V. E.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.21, no.6, pp.1353-1365, 2021 (Peer-Reviewed Journal)

II. **Sosyal Medyanın Gönüllü Coğrafi Veri Olarak Kullanımı ve Sosyal Medya Verilerinden Coğrafya Sözlüğü Üretimi**
Gülnerman A. G., Karaman H.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.20, no.2, pp.276-286, 2020 (Peer-Reviewed Journal)

III. **Kahramanmaraş ve Adıyaman İllerinin Afetselliğinin İncelenmesi ve Mekansal Analiz Teknikleriyle Yerleşime Uygun Alanların Belirlenmesi**
Karaağaç D., KARAMAN H., AKTUĞ B.
Türk Deprem Araştırma Dergisi, vol.1, no.2, pp.123-133, 2019 (Peer-Reviewed Journal)

IV. **COMPLEXITY MEASURES OF SPORTS FACILITIES ALLOCATION IN URBAN AREA BY METRIC ENTROPY AND PUBLIC DEMAND COMPATIBILITY**

Bilgi S., Gülnerman Gengeç A. G., Arslanoğlu B., Karaman H., ÖZTÜRK Ö.
INTERNATIONAL JOURNAL OF ENGINEERING AND GEOSCIENCES, vol.4, no.3, pp.141-148, 2019 (ESCI)

V. **Future of GPS GALILEO and GLONASS An overview**
ŞAHİN M., ALKAN R. M., KARAMAN H., TARI E.
GIS Development, GIS@development Middle East, vol.1, no.5, pp.20-24, 2005 (Peer-Reviewed Journal)

Books & Book Chapters

I. **New Age of Crisis Management with Social Media**
Gülnerman A. G., Karaman H., Basiri A.
in: Open Source Geospatial Science for Urban Studies, Mobasheri Amin, Editor, Springer, London/Berlin , Zürich, pp.131-160, 2020

Refereed Congress / Symposium Publications in Proceedings

I. **Monitoring the water vapor, snow/ice and sea level changes in the Antarctica with GNSS Meteorology and GNSS Reflectometry Techniques.**
SELBESOĞLU M. O., YAVAŞOĞLU H. H., KARABULUT M. F., GÜLAL V. E., KARAMAN H., KAMAŞAK M. E.
XXIX INTERNATIONAL SYMPOSIUM ON: "MODERN TECHNOLOGIES, EDUCATION AND PROFESSIONALPRACTICE IN GEODESYAND RELATED FIELDS, 5 - 06 November 2019, pp.21

II. **GNSS - Meteorolojisi ve GNSS - Reflektometresi Teknikleri ile Antarktika Bölgesinin Troposfer ve Kar Kalınlığının İzlenmesi, Geliştirme Çalışmaları**
SELBESOĞLU M. O., YAVAŞOĞLU H. H., KARABULUT M. F., GÜLAL V. E., KARAMAN H., KAMAŞAK M. E.
III. KUTUP BİLİMLERİÇALIŞTAYI, Ankara, Turkey, 5 - 06 September 2019, pp.48-49

III. **GNSS Meteorolojisi ve Reflektometresi Teknikleri ile Antarktika Bölgesinin Troposfer ve Kar Kalınlığının İzlenmesi, Deformasyonların Belirlenmesi**
SELBESOĞLU M. O., YAVAŞOĞLU H. H., KARABULUT M. F., GÜLAL V. E., KARAMAN H., KAMAŞAK M. E.
II. KUTUP BİLİMLERİ ÇALIŞTAYI, Turkey, 12 - 13 September 2018

IV. **Credibility Index of the Social media Users to Detect Spatial Outliers**
GÜLNERMAN A. G., KARAMAN H., BASİRİ A., MARSH S.
RGS-IBG 2018, Cardiff, United Kingdom, 28 - 31 August 2018

V. **Bridge Functionality in Istanbul after a Potential Earthquake**
KARAMAN H., Ergün Konukcu B.
16th EUROPEAN CONFERENCE ON EARTHQUAKE ENGINEERING, Selanik, Greece, 18 - 21 June 2018, pp.1-15

VI. **Modeling the Deformations of Ataturk Dam by Using GIS**
ÖZBEY V., KARAMAN H., YAVAŞOĞLU H. H.
MESAEP - Mediterranean Scientific Association of Environmental Protection, 4 - 06 October 2017

VII. **Social Media Spatial Monitor of Coup Attempt in the Republic of Turkey**
Gülnerman Gengeç A. G., Karaman H.
17th International Conference on Computational Science and its Applications (ICCSA), Trieste, Italy, 3 - 06 July 2017

VIII. **PPGIS Case Studies Comparison and Future Questioning**
Gülnerman Gengeç A. G., Karaman H.
15th International Conference on Computational Science and Its Applications (ICCSA), Banff, Canada, 22 - 25 June 2015, pp.104-107

IX. **Determining Earthquake Potential On The North Anatolıan Fault Western Marmara Segment by GPS Measurements**
ALTIN M. U., YAVAŞOĞLU H. H., TARI E., Baykal O., CAKMAK R., ERDEN T., ERGİNTAV S., ERTURAÇ M. K., İNCE C. D., KARAMAN H., et al.

International Workshop on Natural Disasters & Emergency Management, 22 - 24 September 2007

X. **Kuzey Anadolu Fay Zonu Üzerinde Kelkit Vadisi Boyunca Yer Alan Yerleşim Alanlarının Doğal Afet Risk Analizi ve Afet Bilgi Sisteminin Oluşturulması İlk Sonuçlar**
TATAR O., GÜRSOY H., ALTUNEL E., AKYÜZ H. S., TOPAL T., ŞAHİN M., KAVAK K. Ş., SEZEN T. F., KOÇBULUT F., MESCİ B. L., et al.
Aktif Tektonik Araştırma Grubu 10. Toplantısı, Turkey, 2 - 04 November 2006

XI. **GPS Measurements on the western Marmara segment of the North Anatolian Fault**
ALTIN U., Yavaşoğlu H. H., Tarı E., BAYKAL O., CAKMAK R., Erden T., ERGINTAV S., ERTURAC M. K., INCE C. D., Karaman H., et al.
International Workshop in Comparative Studies of the North Anatolian Fault and San Andreas Fault, İstanbul, Turkey, 11 - 14 August 2006, pp.41

XII. **Turkey Disaster Information System A Case Study for İstanbul**
ŞAHİN M., KARAMAN H., TARI E., YAVAŞOĞLU H. H., ÜNEN H. C.
13th TIEMS International Emergency Management Society Annual Conference, 23 - 26 May 2006

XIII. **Disaster Information System of TURKEY TABIS GIS Standards**
ŞAHİN M., Uçar D., TARI E., İPBÜKER C., COŞKUN M. Z., MUSAOĞLU N., KAYA Ş., ERDEN T., KARAMAN H., YAVAŞOĞLU H. H., et al.
1st International Workshop on An Earthquake Loss Estimation Program for Turkey, 1 - 02 December 2005

XIV. **Applications of Global Positioning System GPS in Geodynamics With Three Examples From Turkey**
YAVAŞOĞLU H. H., TARI E., ŞAHİN M., KARAMAN H., ERDEN T., BİLGİ S., ERDOĞAN S.
Recent Advances in Space Technologies RAST, 9 - 11 June 2005

XV. **GPS measurements along the North Anatolian Fault zone on the mid-Anatolia segment**
Yavaşoğlu H. H., Tarı E., Karaman H., Şahin M., BAYKAL O., Erden T., Bilgi S., RUZGAR G., INCE C. D., ERGINTAV S., et al.
IAG Symposium on Geodetic Deformation Monitoring - From Geophysical to Engineering Roles, Jaen, Spain, 17 - 19 March 2005, vol.131, pp.166-171

XVI. **GPS, GALILEO and GLONASS satellite navigation systems & GPS modernization**
Alkan R. M., Karaman H., Sahin M.
2nd International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 9 - 11 June 2005, pp.390-394

XVII. **GPS measurements on the western Marmara of North Anatolian Fault segment**
Yavaşoğlu H. H., RUZGAR G., Tarı E., BAYKAL O., ERTURAC M. K., CAKMAK R., Erden T., ERGINTAV S., INCE C. D., Karaman H., et al.
5th International Symposium on Eastern Mediterranean Geology, Thessaloniki, Greece, 14 - 20 April 2004, pp.904-907

XVIII. **Kuzey Anadolu Fayı'nın Orta Anadolu bölümünün GPS ölçmeleri ile güncel tektonik özelliklerinin belirlenmesi**
Yavaşoğlu H. H., BAYKAL O., Bilgi S., CAKMAK R., Erden T., ERGINTAV S., INCE C. D., Karaman H., Tarı E., Tarı U., et al.
ATAG-6, Ankara, Turkey, 21 - 22 November 2002, pp.79-83

XIX. **GIS Standards of Turkey based on Emergency Management**
Baykal O., Bilgi S., Coşkun Z., Erden T., Göksel Ç., İpbüker C., Karaman H., Kaya Ş., Musaoğlu N., Şahin M., et al.
International Symposium on GIS, İstanbul, Turkey, 23 - 26 September 2002

Supported Projects

Karaman H., Project Supported by Higher Education Institutions, Road Network Functionality of Istanbul Following an Earthquake, 2016 - 2018

Karaman H., Project Supported by Higher Education Institutions, INTEGTATED MULTİ-HAZARD MAP CREATİON BY USİNG AHP AND GIS, 2015 - 2018

Karaman H., Project Supported by Higher Education Institutions, Demprem Sonrası Ulaşım Yapılarının Kullanılabilirlik

analizi Algotirması Geliştrilmesi, 2013 - 2018
Karaman H., Project Supported by Higher Education Institutions, Development of a Fire Following Earthquake Function for HAZTURK, 2010 - 2018
Karaman H., Project Supported by Other Official Institutions, İstanbul İli Başakşehir İlçesi Ziya Gökalp Mahallesi Dahilinde Kalan 41 Hektarlık Alanda Binaların Bölgesel Deprem Risk Dağılımı Belirlenmesi, 2015 - 2016
Karaman H., TUBITAK Project, Otonom Hidrografik Ölçme Aracı ile Hidrografik Haritaların Üretilmesi, 2013 - 2015
Karaman H., Project Supported by Other Official Institutions, İSTANBUL DA AFET SONRASI GEÇİCİ BARINMA ALANLARININ TESPİTİNE YÖNELİK MODEL GELİŞTİRİLMESİ, 2012 - 2014

Memberships / Tasks in Scientific Organizations

The Resilience Advisors Network, Member, 2019 - Continues
International Association for Bridges and Structural Engineers, Member, 2019 - Continues

Metrics

Publication: 65
Citation (WoS): 135
Citation (Scopus): 336
H-Index (WoS): 8
H-Index (Scopus): 9