

## Res. Asst. PhD AHMET BAHADDİN ERSÖZ

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 197201

### Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2016 - 2023

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2013 - 2016

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2010 - 2013

### Dissertations

Postgraduate, Development of UAV-based pavement crack identification system using artificial intelligence, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2016

### Research Areas

Information Systems, Communication and Control Engineering, Computer Sciences, Civil Engineering

### Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2013 - Continues

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

- I. **AIDCON: An Aerial Image Dataset and Benchmark for Construction Machinery**  
Ersöz A. B., Pekcan O., Akbaş E.  
REMOTE SENSING, vol.16, no.17, 2024 (SCI-Expanded)
- II. **Utilizing digital technologies for rapid damage assessment and reconnaissance: the February 6, 2023 Kahramanmaraş-Türkiye earthquakes (Mw 7.7 and Mw 7.6)**  
ERSÖZ A. B., PEKCAN O., ALTUN M., TEKE T., AYDOĞMUŞ Ö.  
Bulletin of Earthquake Engineering, vol.1, 2024 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Removal of Construction Machinery Occlusion using Image Segmentation and Inpainting for Automated Progress Tracking**  
ERSÖZ A. B., PEKCAN O.  
41st International Symposium on Automation and Robotics in Construction, ISARC 2024, Lille, France, 3 - 05 June 2024, pp.759-767
- II. **Enhancing Earthquake Damage Assessment and Response with Data Management and Visualization**  
Ersöz A. B., Altun M., Teke T., Aydoğmuş Ö., Aydoğan F., Karaali E., Kaya Y. E., Kılıç G., Özbilen M. A., Pekcan O.  
7th International Conference on Earthquake Engineering and Seismology (7ICEES), Antalya, Turkey, 6 - 10 November 2023
- III. **İnsansız Hava Araçları Kullanılarak İnşaat Projeleri İçin Otonom Hafriyat Takip Sistemi**  
Ersöz A. B., Pekcan O.  
11. Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği (TUFUAB) Teknik Sempozyumu , Mersin, Turkey, 12 - 14 May 2022
- IV. **Lean Project Management using Unmanned Aerial Vehicles**  
ERSÖZ A. B., PEKCAN O., TOKDEMİR O. B.  
5th International Project and Construction Management Conference (IPCMC2018), 16 - 18 November 2018
- V. **Application of Artificial Neural Networks on Building Energy Estimation**  
ALTUN M., ERSÖZ A. B., TEKE T., KURT T., AKÇAMETE GÜNGÖR A., PEKCAN O.  
International Conference on Engineering Technologies, Konya, Turkey, 7 - 09 December 2017
- VI. **Unmanned Aerial Vehicle Based Pavement Crack Identification Method Integrated with Geographic Information Systems**  
ERSÖZ A. B., PEKCAN O., TEKE T.  
Transportation Research Board 96th Annual Meeting, Washington, Kiribati, 8 - 12 January 2017
- VII. **Crack identification for rigid pavements using unmanned aerial vehicles**  
ERSÖZ A. B., PEKCAN O., TEKE T.  
International Conference on Building up Efficient and Sustainable Transport Infrastructure (BESTInfra), Prague, Czech Republic, 21 - 22 September 2017
- VIII. **Damage Identification of Coastal Structures Using Image Processing Techniques**  
PEKCAN O., ERSÖZ A. B., TEKE T., Doğan G. G., ÖZYURT G., BAYKAL C.  
ICCE' 16 - 35th International Conference on Coastal Engineering, 17 - 20 November 2016
- IX. **Pavement Crack Detection Using Unmanned Air Vehicles**  
PEKCAN O., ERSÖZ A. B., TEKE T.  
Transportation Research Board 95th Annual Meeting, 10 - 14 January 2016

## Metrics

Publication: 12

Citation (WoS): 32

Citation (Scopus): 39

H-Index (WoS): 2

H-Index (Scopus): 2