



AHMET BAHADDİN ERSÖZ

RESEARCH ASSISTANT AT MIDDLE EAST TECHNICAL UNIVERSITY

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Research Areas Digital image processing, Applications of UAV systems in engineering infrastructure, Web based software development, Engineering informatics, GIS Applications

Education

Middle East Technical University 2009-2013
B.S. - Civil Engineering

Middle East Technical University 2013 – 2016
M.S. - Civil Engineering
Thesis Title: Development of UAV-Based Pavement Crack Identification System Using Artificial Intelligence

Middle East Technical University 2016 – current
Ph.D. Candidate - Civil Engineering

Technical Skills

Programming/Web
PHP (★★★★) JavaScript (★★★★) HTML (★★★★)
CSS (★★★★) MATLAB (★★★★) C# (★★★)
FORTRAN (★★★) VBA (★★★)

Software
Autodesk AutoCAD (★★★★) Autodesk Revit (★★★)
Adobe Fireworks (★★★★) Adobe Photoshop (★★★)

Experience

Cankuş (Life Saving Birds) Project August 2012 – July 2015
Researcher
Developed a web-based GIS application, called as QRView, that acquires photos taken by UAVs and creates an interactive after earthquake map for damage observation and rescue systems

SahaGözü (Field Eye) Project July 2016 – current
Researcher
Participated in the development of a construction monitoring tool, which is used to create aerial maps and 3D models to manage, measure and communicate site progress.

Responsible for improving IT services and developing computer aided engineering solutions for the department of civil engineering.

Awards Listed in most successful research assistants of civil engineering department list in 2014-2015 academic year

Publications Pekcan, O., Ersöz, A.B., Teke, T., 2016. Pavement crack detection using Unmanned Air Vehicles. *Transportation Research Board 95th. Annual Meeting*, Washington, DC. USA

Pekcan, O., Ersoz, A.B., Teke, T., et al., 2016. Damage Identification of Coastal Structures Using Image Processing Techniques. *In 35th International Conference on Coastal Engineering*, Istanbul, TURKEY

Ersöz, A.B., Pekcan, O., Teke, T., 2017. Unmanned Aerial Vehicle Based Pavement Crack Identification Method Integrated with Geographic Information Systems. *Transportation Research Board 96th. Annual Meeting*, Washington, DC. USA

Ersöz, A.B., Pekcan, O., Teke, T., 2017. Crack Identification for Rigid Pavements Using Unmanned Aerial Vehicles. *International Conference BESTInfra 2017*, Prague, Czech Republic

Altun, M., Ersöz, A.B., Teke, T., Kurt, T., Akcamete-Gungor, A., Pekcan, O., 2017. Application of Artificial Neural Networks on Building Energy Estimation. *International Conference on Engineering Technologies (ICENTE'17)*, Konya, TURKEY

Interests **RC Drones**
Pilots various quadcopters and likes to mix flight videos and music

Classical Guitar
Intermediate classical guitar player since high school, participated several elective courses.

Blogging
About self-development in <http://kesfetkendini.org>