

**TED University**  
**Department of Civil Engineering**  
**CE 410 Civil Engineering Design**  
**Fall 2016-2017, Seminar Series #5**  
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## **Inspection Through Drones Eyes**

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### **Abstract**

Over the last decade, Unmanned Aerial Vehicles (UAVs), so called drones, have penetrated into our daily lives significantly. Nowadays, they are almost inevitable tools used in various applications ranging from regular photo taking to creating professional level Digital Elevation Models. In this talk, I will be reviewing the recently studied applied problems of Civil Engineering, mainly emphasizing the Geotechnical and Transportation Engineering fields. In this talk, the students will not only have the chance to introduce themselves to the world of UAVs, but also have the opportunity to think differently when approaching challenging problems of engineering world.

### **About the lecturer**

Onur Pekcan is a graduate of Civil and Environmental Engineering Department at the University of Illinois at Urbana-Champaign (UIUC). He also holds a M.S. degree in Computer Science from UIUC. He is now an Assistant Professor in the Department of Civil Engineering at Middle East Technical University (METU). At METU, he founded Applied, Innovative and Interdisciplinary Research Lab (AI2LAB), where he and his students work on developing innovative approaches to applied problems using interdisciplinary vision and knowledge to design and maintain sustainable and intelligent infrastructures. AI2LAB's focus lies within the broad range of subjects chosen from the areas of Geotechnical and Transportation Engineering. In addition, AI2LAB exceedingly use the approaches developed in the fields of Computer Science and Electrical Engineering.

