Speaker: Olga Isupova (University of Bath)

Date: 3/11/2020 on Microsoft Teams

Title: Deep learning applications for disaster management and conservation

Abstract:
Deep learning has enormous success in a variety of applications, but it normally relies on vast labelled datasets. In this talk I will discuss how deep learning can be applied in the area of disaster management and conservation where there is a lack of well-prepared data. For example, if during the disaster relief campaign all we have is point labels of damaged buildings from volunteers and we would like to train a neural network to label the whole map where damaged buildings are to help disaster responders to plan their actions. I will talk how we can combine two normally separated tasks on crowdsourcing aggregation and classifier training. This talk also demonstrates what different applications can benefit from the use of satellite images if we employ neural networks to process the imagery efficiently.