# A novel software for analyzing the natural landscape surface using deep learning

Marco A. Moreno-Armendáriz, Carlos A. Duchanoy, Anayantzin P. López-Juárez, Israel A. Vargas-Monroy

Currently, the exponential growth of large cities has drastically reduced the amount of healthy green areas recommended by public health institutions. Adding the fact of having to monitor huge areas like the 1495 $km^2$ of Mexico City, the problem is difficult to address. With the aim of achieving a viable solution, this work presents a software capable of automatically classifying the quality of the terrain with 72% accuracy from images of a drone that flies 30m high, which allows analyzing small details of the terrain. The software and the dataset will be available for anyone's use and allows the possibility of retraining the designed deep network.