鋪面裂縫類神經網路識別系統

Traditionally, the technology of pavement distress survey is manpower, and it may lead to such shortcomings as incorrect judgement, making workers dangerous, and so on. This paper presents work towards the use of employing neural network model of mask-based on image process for the automatic pavement crack recognition system. The demonstration have been proved that the rate of correctness is 81%. If we can avoid the error that due to inadequate shadow factor, the correctness can improve to 91%. The main sources of error include the leaves, the oil that spilt on pavement and different color based on different paved period,..., etc. And at the same time, we find it didn't have a clear-cut distress identification standard yet now, so it's surely necessary to own an identification standard in order to do pavement maintenance job.