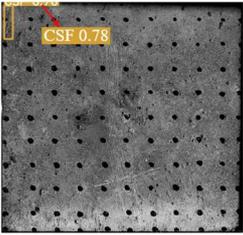
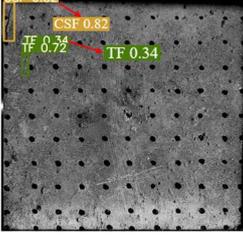
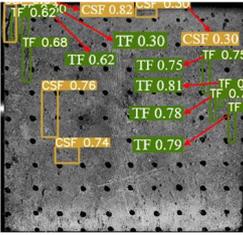
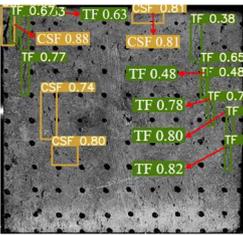


Table S1. Dynamic crack test results of back-filling concrete samples

Pattern	Number of cracks		F-Measure	mAp@0.5	GIoU loss
	TF	CSF			
	0	1			
	2	1			
	7	4	75%	71%	0.038
	9	4			

Note: Two colors of the prediction box: green and yellow correspond to two different types of cracks: TF and CSF; The value in the prediction box is confidence.