

The Effect of Closed Circuit Television Image Patch Layout on Performance of a Simulated Train-Platform Departure Task

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Abstract : This study investigates the effect of closed circuit television (CCTV) image patch layout on performance of a simulated train-platform departure task. The within-subjects experimental design measures target detection rate and response latency during a CCTV visual search task conducted as part of the procedure for safe train dispatch. Three interface designs were developed by manipulating CCTV image patch layout. Eye movements, perceived workload and system usability were measured across experimental conditions. Task performance was compared to identify significant differences between conditions. The results of this study have not been determined.

Keywords : rail human factors, workload, closed circuit television, platform departure, attention, information processing, interface design

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