

ABSTRACT SUBMISSION –– SOUMISSION DE RESUME

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ABSTRACT / RESUME:

The VTS system is lack of cognitive ability. It’s information acquisition means are relatively independent. In it, all aspects of multi sensor information and information processing lack of depth fusion, and system setting, information analysis and System decision are too dependent on man work. Those result in heavier workload of VTS operators, and lower efficiency of VTS. This paper discusses the basic concepts of cognitive VTS system based on machine learning, information fusion and Big data technology, analyzes the application requirements and technical characteristics of cognitive VTS system, including mainly adaptive adjustment for system, intelligent traffic situation analysis, intelligent traffic hazard prediction and intelligent traffic organization decision etc..