



A COMPREHENSIVE SURVEY OF VISION BASED VEHICLE INTELLIGENT FRONT LIGHT SYSTEM

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Abstract- Vehicle intelligent front light system is one of the advanced driver assistance systems. Vision based intelligent front light system is currently the research focus in this field. The purpose of this paper is to present a comprehensive survey of the vehicle front light system development and the latest vision based key technologies and proposals. By analyzing the significant disadvantages of traditional intelligent light systems, some possible improvement proposals and algorithms for lane, vehicle lamp recognition and track are provided. This survey shows that the Matrix-LED system could make the system more flexible and more effective and vision based vehicle intelligent front light system can improve the driving environment for the ego driver and other road users at night.

Index terms: Vehicle intelligent front light, Matrix-LED, Lane recognition, Light detection.