CONVERGENCE OF A SECOND-ORDER SCHEME FOR NON-LOCAL CONSERVATION LAWS

Veerappa Gowda G. D.¹, Sudarshan Kumar Kenettinkara^{2,*} and Nikhil Manoj²

Abstract. In this article, we present the convergence analysis of a second-order numerical scheme for traffic flow models that incorporate non-local conservation laws. We combine a MUSCL-type spatial reconstruction with strong stability preserving Runge-Kutta time-stepping to devise a fully discrete second-order scheme. The resulting scheme is shown to converge to a weak solution by establishing the maximum principle, bounded variation estimates and L¹ Lipschitz continuity in time. Further, using a space-step dependent slope limiter, we prove its convergence to the entropy solution. We also propose a MUSCL-Hancock type second-order scheme which requires only one intermediate stage unlike the Runge-Kutta schemes and is easier to implement. The performance of the proposed second-order schemes in comparison to a first-order scheme is demonstrated through several numerical experiments.

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1. Introduction

In recent years, conservation laws with non-local flux have emerged as a vital area of research due to its wide-ranging applications in various physical models. These models include sedimentation [13], crowd dynamics [17,31–33], supply chains [8], conveyor belts [49,64], weakly coupled oscillators [5], gradient constrained equations [6], traffic flow [9,14,20,23,28,67], structured population dynamics in biology [62], etc. Various aspects of these non-local conservation laws are extensively studied in the literature, such as their well-posedness addressed in [3,7,14,18,20,30,38,47,64] and non-local to local limits studied in [15,16,29,34–37,58]. Extended studies include non-local balance laws in [1,57,59] and the non-local pair interaction model in [39,40], and references therein. In this article, we specifically focus on the traffic flow models governed by non-local conservation laws, originally proposed in [14] and further studied in [21,24,26,42,46]. These models account for the interaction between drivers and the surrounding density of vehicles and have been widely studied in the literature. In particular, stability estimates for non-local traffic flow equations have been derived in [24,54] and regularity results for solutions of these equations have been investigated in [10]. Also, there is a recent trend to derive general numerical schemes for non-local conservation laws, see [4,45,55]. Furthermore, the traveling wave solutions for

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