

Title: Text Recognition in Natural Scenes

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Abstract: The main topic of our thesis is text recognition in natural scenes. This technology has finds many useful applications in the present world and has a great potential in the future one. We are analyzing the topic from theoretical but also from experimental perspective. Detailed analysis is done in theoretical part of this work. Based on this analysis, we propose integrating algorithm ER proposed by Matas and Neumann for letter detection with modified algorithm from Phan and co. for word recognition. Proposed method had been experimentally evaluated on testset *ICDAR 2013* and achieved *recall 0.6* and *precision 0.72*. Our work also includes C++ library for text recognition, console and gui application for text recognition using the proposed method.