

constructing tight fitting bounding polygons using text candidate points. IEEE websites place cookies on your device to give you the best user experience. By using our websites, Extensive experiments on custom (3D video) and standard datasets (2D video you agree to the placement of these cookies. To learn more, read our Privacy Policy. More Like This

and scene text) show that the proposed method is practical and useful, and overall outperforms existing state-of-the-art methods.

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## E Contents

## I. Introduction

Text localization in 3D video is an important topic for contentbased video retrieval, particularly for annotating video based on semantics [1], [2]. It has attracted considerable research attention due to explosive growth of multimedia content which includes 2D and 3D video data, available [1], [2]. As a result, there is an increasing number of large repositories containing 2D, 3D video/images and multimedia content [1]. To ensure the robustness and accuracy of retrieval systems, text localization is vital as it provides significant semantic information for annotating Sign in to Continue Reading video [3], [4]. Existing models focus on text localization in 2D video but not 3D video [3], [4]. Therefore, there is a need for a model that can work for both 2D and 3D video. Example of retrieval cases can include events extraction from 3D sports video, choosing a particular scene in a 3D movie, tracking and watching person behavior and interaction captured by 3D camera during exhibitions, processions, celebrations, etc. These situations motivated the authors to introduce the problem of text localization in 3D video in this work.

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