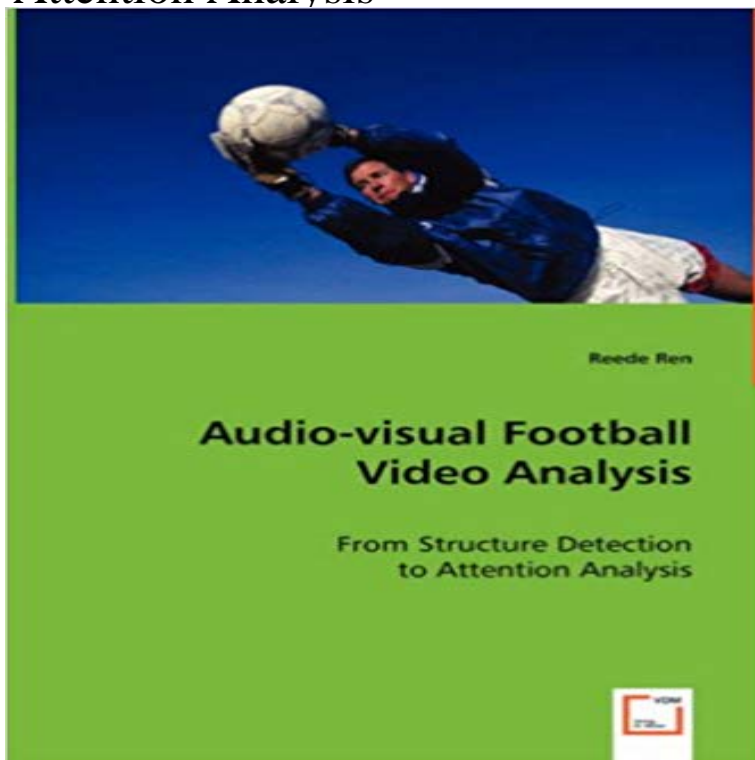


Audio-visual Football Video Analysis: From Structure Detection to Attention Analysis



Football video has been one of the most widely enjoyed video genres in video-on-demand and other value-add services. The automatic analysis of football video contents presents a significant challenge for the media industry. The aim of this book is to provide a solution to content-based applications, such as automatic video summarisation, personalised video skimming and content-based adaptive video encoding. The book addresses state-of-art techniques, involving content sensitive video segmentation, game pitch detection, replay and other editing sequence simulation, event discrimination, salient estimation and attention-based highlight identification. Most of these techniques are also able to be employed in other field-based sports video analysis, e.g. basketball and rugby. This book is suitable for engineers and researchers with the background knowledge about video engineering and content analysis.

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