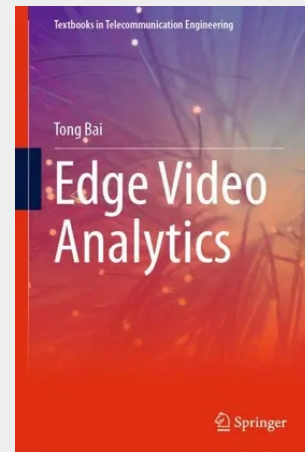


Edge Video Analytics

The significance of video analytics is becoming increasingly substantial. Edge video analytics has emerged as a vital component in addressing the challenges posed by the exponential growth of video data. Processing data closer to its source enhances efficiency and opens new opportunities for applications across various sectors. This textbook presents a comprehensive overview of the techniques and methodologies shaping the future of video analytics. Key concepts are explored systematically, transitioning from foundational principles to advanced strategies. Topics include the integration of artificial intelligence and machine learning in edge analytics, model training and deployment, as well as orchestration across edge-cloud environments. Each section offers insights backed by research and real-world examples. This book's practical approach makes it a valuable resource for both industrial engineers and academic researchers. It provides essential knowledge that applies to real-world situations, whether in security surveillance, transportation, or healthcare. The presentation is clear and engaging, making complex theories easier to understand and accessible to readers at different levels of expertise. This book is highly recommended to anyone interested in exploring the intersection of edge computing and video analytics. Not only does it deepen your understanding of the field, but it also encourages further research and exploration.

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