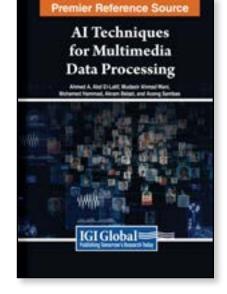
AI Techniques for Multimedia Data Processing

Part of the Advances in Computational Intelligence and Robotics Book Series

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Description:

Embark on an exploration of the challenges posed by the convergence of artificial intelligence (AI) and multimedia data processing. In the landscape of technology, the relationship between AI and multimedia unfolds with unprecedented innovation, accompanied by formidable ethical concerns and data management complexities. As society immerses itself in the digital age, marked by a flood of multimedia content, the urgent need to grapple with these multifaceted issues becomes apparent. This transformative journey into the heart of contemporary technological challenges is guided by the insights within. The book, **AI Techniques for Multimedia Data Processing**, serves as an indispensable resource, unraveling the layers of complexity within the symbiotic relationship between AI and multimedia.

Within the pages of **AI Techniques for Multimedia Data Processing**, readers will find a comprehensive exploration that goes beyond theoretical discussions, delving into the practical applications and implications of AI in multimedia processing. This transformative journey navigates the terrain where ethical concerns meet practical applications, providing a profound understanding of how AI reshapes our interaction with multimedia content. As the chapters unfold, addressing challenges from video compression and streaming to multimedia recognition, segmentation, and content classification, readers are equipped with the knowledge needed to responsibly harness the transformative potential of AI in the realm of multimedia data processing.

As readers delve deeper into Al Techniques for Multimedia Data Processing, its exploration expands to the realm of Al's impact on medical analysis, shedding light on the convergence of Al and deep learning in medical disease analysis. The book charts new territory in addressing the pressing issues of privacy and security within the context of multimedia, providing insights into safeguarding sensitive information. Beyond theoretical discussions, practical applications unfold, unraveling the mysteries of multimedia forensics, exploring search and retrieval techniques, and delving into the realms of multimedia editing, enhancement, gaming, entertainment, and healthcare applications. Each chapter serves as a gateway to a specific facet of the Al and multimedia relationship, offering diverse perspectives for readers ranging from novices seeking foundational knowledge to seasoned practitioners eager to apply Al in their multimedia endeavors.

ISBN: 9798369329351 Hardcover: \$325.00	Pages: 300 E-Book: <mark>\$325.00</mark>	I	Copyright: 2024 Hardcover + E-Book: <mark>\$390.00</mark>	Release Date: January, 2024
Topics Covered:• Al for Multimedia Data Processing• Al for Multimedia Recognition and Segmentation• Analysis• Analysis• Artificial Intelligence• Data Mining• Deep Learning Algorithms• Editing and Enhancement• Forensics		• • •	Gaming and Entertainment Healthcare Applications Machine Learning Algorithms for Medical Disease Analysis Natural Language Processing for Media Data Analysis Search and Retrieval Security and Privacy	
Readership Level: Advanced-Academic Level (Research Recommended)			Students; Graduate	dited Reference e for: Advanced Undergraduate Students; Researchers; essionals; Practitioners

