

Call for Book Chapters/Research Papers for Edited Book

To be published with ISBN under IIP International publishers, USA and India

Artificial Intelligence in Text and Image Processing



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Acceptance notification: After one month of submission
Last date for registration: 30-12-2023

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Call for Chapters

Artificial Intelligence in Text and Image Processing

Aim & Scope

The primary aim of the book is to provide a comprehensive understanding of how artificial intelligence technologies are being applied in the processing and analysis of textual and visual data. The book aims to bridge the gap between AI theory and practical applications in the domains of text and image processing. The book's scope would encompass a wide range of topics related to the application of AI techniques in text and image processing, covering both theoretical concepts and practical implementations. The book could be structured to cover the following areas:

1. Introduction to AI, Text, and Image Processing: Provide an overview of artificial intelligence, its subfields (machine learning, deep learning, natural language processing, computer vision), and their relevance to processing textual and visual data.

2. Foundations of Text Processing: Discuss basic text processing techniques such as tokenization, stemming, and text normalization. Introduce natural language processing (NLP) concepts including sentiment analysis, named entity recognition, and text classification.

3. Foundations of Image Processing: Explore fundamental image processing concepts like image filtering, segmentation, and feature extraction. Introduce computer vision concepts including object detection, image classification, and image generation.

4. Machine Learning Techniques for Text and Image Data: Cover machine learning algorithms commonly used in text and image processing, such as decision trees, support vector machines, and clustering methods. Explain how these techniques are adapted for handling textual and visual data.

5. Deep Learning in Text and Image Processing: Dive into deep learning architectures like neural networks, convolutional neural networks (CNNs), and recurrent neural networks (RNNs). Discuss their applications in tasks such as text generation, image recognition, and captioning.

6. Text and Image Data Preprocessing: Detail the essential preprocessing steps required to clean, normalize, and prepare text and image data for AI-driven processing. Cover techniques for handling noise, missing data, and outliers.

7. Text-to-Image Generation and Vice Versa: Explore the exciting area of generating text from images and vice versa using AI techniques. Discuss applications like image captioning and generating images from textual descriptions.

8. Cross-Modal Analysis: Discuss methods for analyzing and extracting meaningful information from both text and image data. Cover tasks like sentiment analysis of image captions, topic modeling of images, and more.

9. Applications in Various Fields: Present real-world applications of AI in text and image processing across diverse domains, such as healthcare, finance, social media analysis, autonomous vehicles, and more.

10. Ethical Considerations and Challenges: Address ethical considerations related to AI applications in text and image processing, including bias, privacy concerns, and transparency. Discuss strategies to mitigate these challenges.

11. Future Directions: Speculate on emerging trends and potential future developments in AI-driven text and image processing. Discuss the role of AI in advancing these fields and shaping technological innovations.

Author Benefits:

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