



Computational Learning for Adaptive Computer Vision

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About this book

Computer vision (CV) research seeks to provide computers with human-like perception capabilities so that they can sense the environment, understand the sensed data, take appropriate actions, and learn from this experience in order to enhance future performance. The field has evolved from the application of classical pattern recognition and image processing methods to advanced techniques in image understanding, including model-based and knowledge-based vision.

Recent years have seen increased demand for computer vision systems to address "real-world" applications, such as navigation, target recognition, manufacturing, photointerpretation and remote sensing.

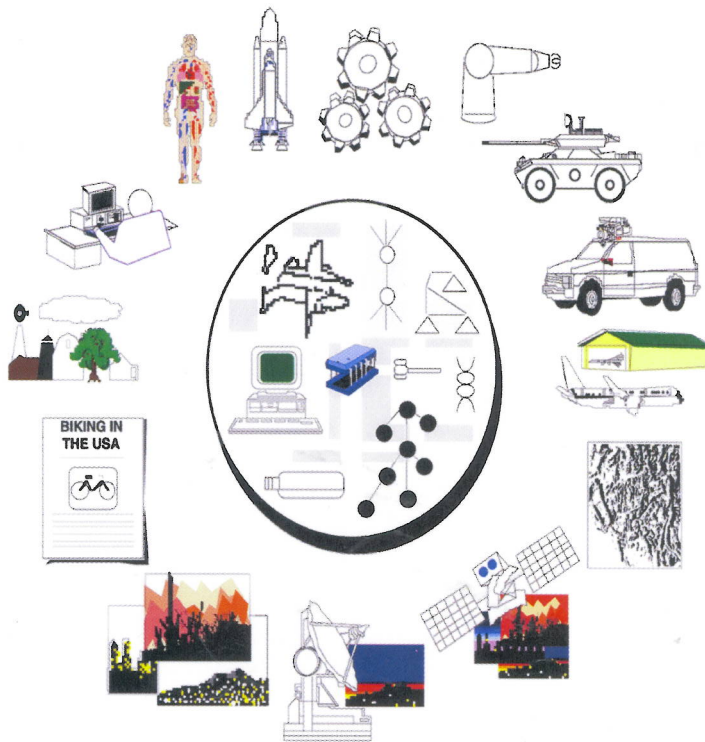
This unique monograph demonstrates the ways in which machine learning, a field concerned with the temporal improvement of computer algorithms and systems, can help create robust, flexible vision techniques for optimal functioning in real-world scenarios.

Enriched by many concrete examples and illustrations, this is an indispensable reference for industry engineers and academics working in machine vision and Artificial Intelligence.

Written for:

Engineers, computer scientists in industry and academia interested in machine vision and artificial intelligence.

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and
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